State of New Mexico
Oil Conservation Division

Incident ID	nAPP2224440316
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Matthew Krakow Title: HES Professional

Signature: _____ Date: 2/13/2023

email: MJKrakow@marathonpetroleum.com Telephone: 505-632-4169

OCD Only

Received by: Jocelyn Harimon Date: 02/13/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 02/22/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

January 30, 2022

New Mexico Oil Conservation Division
1220 South St, Francis Drive
Santa Fe, NM 87505

Re: Closure Report
CTB 145 (Icy 18 Fed Com)
Western Refining Pipeline LLC
Incident #: nAPP2224440316
Site Location: S18, T25S, R33E
(Lat 32.135747°, Long -103.612835°)
Lea County, New Mexico

To whom it may concern:

On behalf of Western Refining Pipeline, LLC, Earth Systems Response & Restoration (ESRR) has prepared this letter to document the CTB 145 (Icy 18 Fed Com) (site) release assessment and remediation activities. The site is located at 32.135747°, -103.612835° within S18, T25S, R33E, in Lea County, New Mexico.

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on August 25, 2022 and was caused due to a leak on a valve thread associated with a pipeline riser. It resulted in approximately ten (10) barrels of crude oil spilling and twenty (20) gallons of crude oil recovered. The spill released onto the unlined native soil pad within the riser security fence and extended to the exterior of the fenced area to the east and west. A light overspray was visible on native vegetation extending from the release point to the west. The impacted soil area measured approximately 130 feet (ft.) long by 70 to 100 ft. wide with a total square footage of approximately 10,000 square (sq.) ft.

Site Characterization

Based on a review of the New Mexico Office of State Engineers and United States Geological Survey (USGS) databases, the site is located in a low karst potential area and there are no known water features within a 0.50-mile radius of the location. The nearest identified well is located approximately 1.16 miles northeast of the site in S08, T25S, R33E. The well has an unreported depth to groundwater and was drilled in 2022. The next closest identified well is approximately 2.32 miles northeast of the site in S05, T25S, R33E. The well has a reported depth to groundwater of 90 ft. below ground surface (bgs) and was drilled in 1948.

CTB 145 (Icy 18 Fed Com)
Western Refining Pipeline, LLC
Incident #: nAPP2224440316

Regulatory Criteria

The following criteria were utilized in assessing and remediating the site per client request and in accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC.

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (Total BTEX): 50 mg/kg
- TPH: 100 mg/kg (GRO + DRO + ORO)
- Chloride: 600 mg/kg

Site Assessment

On August 26, 2022, ESRR conducted site assessment activities to assess soil impacts resulting from the release. A total of seventeen (17) soil borings were advanced to depths ranging from surface to 4.0 ft bgs within and surrounding the release area to assess potential impacts vertically and horizontally. Additionally, a five-point composite sample was collected for waste characterization analysis. The collected soils samples were placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The soil samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015 Modified, Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA method 8012, and chloride by EPA method 300.0. The laboratory reports containing analytical methods, results, and chain-of custody documents are attached. The initial assessment soil sample analytical results are provided in Table 1.

Soils represented by soil samples collected from soil borings HA-5, HA-6, HA-7, HA-8, HA-9, HA-10, HA-12, and HA-13 exhibited TPH concentrations exceeding NMOCD regulatory criteria at varying depths. No analyzed soil samples exceeded NMOCD regulatory criteria for chloride or BTEX concentrations.

Remediation Activities and Confirmation Sampling

ESRR was onsite August 26 - 30, 2022 utilizing a backhoe to excavate the saturated surface soils to a depth of 0.5 ft. bgs. The excavated soils were stockpiled onsite on top of a plastic liner to await transport to a disposal facility. Additionally, ESRR was onsite September 20 - 30, 2022, overseeing hydrovac trucks to uncover seven (7) buried utility lines within the release perimeter prior to conducting additional remediation activities.

ESRR continued excavation activities October 3 - 6, 2022, utilizing a backhoe and a front-end loader. The impacted soils were excavated to depths ranging from of 0.5 to 10 ft. bgs. based upon delineation laboratory analytical data. Upon excavation, the approximately 360 cubic yards of excavated soils were stockpiled onsite on top of plastic liner to await transport to the Northern Delaware Basin Landfill (NDBL), a state regulated disposal facility by belly dump truck. Additionally, approximately 228 cubic yards of impacted material was excavated and transported directly to the NDBL by hydrovac trucks. On October 12, 2022, subsequent to excavation activities, confirmation samples were collected from within the excavation. A total of twenty-nine (29) confirmation samples were collected (CS-1 through CS-29) and four (4) confirmation sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure removal of the impacted soils. All collected samples were analyzed for TPH analysis by EPA method 8015 Modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Laboratory analytical data

suggests soils associated with confirmation soil samples CS-15, CS-20, and CS-21 exceed NMOCD regulatory criteria and additional excavation is required.

On November 1, 2022, ESRR collected four (4) delineation samples from the floor of the excavated area associated with confirmation soil sample CS-15 to determine the vertical extent of the TPH impacts. Additionally, ESRR collected three (3) confirmation sidewall samples (SW-5 through SW-7) from the excavated area associated with confirmation soil sample CS-15. All collected samples were analyzed for TPH analysis by EPA method 8015 Modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0.

On November 28, 2022, ESRR resumed soil remediation activities by utilizing a backhoe to advance the excavation in the vicinity of soils associated with confirmation soil samples CS-20 and CS-21 to a depth of 3 ft. bgs. and extend the excavation west sidewall an additional two feet to the west. Additionally, a hydrovac was utilized to advance the excavation in the vicinity of confirmation soil sample CS-15 to a depth of 12 ft. bgs. The excavated soils were stockpiled on top of plastic liner to await transport to a disposal facility. On December 1, 2022, subsequent to excavation activities, three (3) confirmation soil samples (CS-15, CS-20, and CS-21) were collected from the floor of the excavations and one (1) confirmation sidewall sample (SW-8) was collected to ensure removal of all impacted soils. All collected samples were analyzed for TPH analysis by EPA method 8015 Modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Laboratory analytical data suggests that all impacted soils exceeding NMOCD regulatory criteria have been removed.

Subsequent to laboratory analytical data review, ESRR resumed onsite activities by utilizing a front-end loader to load the approximately 360 cubic yards of stockpiled impacted soils into belly dump trucks to be transported to the NDBL for final disposal. The excavated area within the riser security fence area was then backfilled with clean locally sourced topsoil material from a depth of 12 ft. to 0.5 ft. bgs and with clean locally sourced caliche material from 0.5 to the surrounding grade surface. The excavated area on the exterior of the riser security fence was backfilled with clean locally sourced material and leveled to the surrounding grade surface.

The confirmation soil sample analytical results are provided in Table 2. Additionally, copies of laboratory analysis and chain-of-custody documentation are attached. See Figures 3, 4, and 5 for excavation depths and confirmation soil sample locations.

CTB 145 (Icy 18 Fed Com)
Western Refining Pipeline, LLC
Incident #: nAPP2224440316

Conclusions

Based on the assessment findings, onsite remediation activities, and laboratory analytical results, no further actions are required at the site. The final C-141 is attached and Western Pipeline Refining, LLC formally requests closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-894-6385.

Sincerely,

Tom Carlson
Tom Carlson, GIT
Project Manager

K. Williams
Kris Williams, CHMM, REM
Operations Manager

Attached:
Table 1 - Summary of Delineation Soil Analytical Data
Table 2 - Summary of Confirmation Soil Analytical Data
Figure 1 – Site Location Map
Figure 2 – Delineation Soil Sample Locations and Site Map – 8/26/2022
Figure 3 – Confirmation Soil Sample Locations and Site Map – 10/12/2022
Figure 4 – Confirmation Soil Sample Locations and Site Map – 11/1/2022
Figure 5 – Confirmation Soil Sample Locations and Site Map – 12/1/2022
Photographic Log
Groundwater Research
Laboratory Analytical Reports
NMOCD Form C-138
NMOCD Correspondence
NMOCD Form C-141

Table 1. Summary of Delineation Soil Analytical Results
Marathon Petroleum - CTB 145
GPS: 32.135747, -103.612835
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft.)	Chlorides (mg/kg)	Gasoline Range Organics (GRO)-C6-C10 (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)
19.15.29 NMAC Remediation Guidelines			600				100	10				50
HA - 1	8/26/2022	0 - 0.5	11.1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
		0.5 - 1	11	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
		1.5 - 2	22.2	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
HA - 2	8/26/2022	0 - 0.5	12.1	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396
		0.5 - 1	13.3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
		1.5 - 2	10.3	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397
HA - 3	8/26/2022	0 - 0.5	8.55	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
		0.5 - 1	15.2	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403
		1.5 - 2	13.8	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
HA - 4	8/26/2022	0 - 0.5	10.2	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
		0.5 - 1	10.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
		1.5 - 2	14.3	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403
HA - 5	8/26/2022	0 - 0.5	10.6	<49.9	**431**	59.3	**490**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
		0.5 - 1	18.2	<50.0	59.4	<50.0	59.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
		1.5 - 2	11.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
HA - 6	8/26/2022	0 - 0.5	12.2	<49.8	**104**	<49.8	**104**	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
		0.5 - 1	11.2	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
		1.5 - 2	20.7	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396
HA - 7	8/26/2022	0.5 - 1	75.4	<49.8	**715**	70.9	**786**	<0.00201	0.00521	0.0216	0.140	0.167
		1.5 - 2	24.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
		2.5-3R	19.4	<49.9	69.7	<49.9	69.7	<0.00201	<0.00201	<0.00201	0.0299	0.0299
HA - 8	8/26/2022	0.5 - 1	11.7	**5380**	**13600**	<249	**19000**	<0.0994	2.81	1.95	16.6	21.4
		1.5 - 2	13.4	**512**	**1610**	<50.0	**2120**	<0.00198	0.0656	0.101	0.893	1.06
		2.5 - 3	16.4	**295**	**1000**	<49.9	**1300**	<0.0400	0.0908	0.390	2.56	3.04
		3.5 - 4	18.3	**500**	**1680**	<49.9	**2180**	<0.0503	0.110	0.533	3.30	3.94
HA - 9	8/26/2022	0.5 - 1	52.6	**1820**	**5240**	<50.0	**7060**	<0.101	4.85	4.52	38.1	47.4
		1.5 - 2	25.0	<50.0	**209**	<50.0	**209**	<0.00199	<0.00199	0.00505	0.0593	0.0644
		2.5-3R	8.95	<49.8	58.2	<49.8	58.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
HA - 10	8/26/2022	0.5 - 1	116	**7070**	**12000**	<250	**19100**	0.235	3.44	1.50	12.1	17.3
		1.5 - 2	52.0	**1330**	**3230**	<50.0	**4560**	<0.0994	2.77	1.73	15.1	19.6
		2.5 - 3	36.9	**784**	**2540**	<50.0	**3320**	<0.0496	0.725	1.19	9.04	11.0
		3.5 - 4	29.6	<50.0	**201**	<50.0	**201**	<0.00198	<0.00198	0.00199	0.0268	0.0288
HA - 11	8/26/2022	0.5 - 1	57.8	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
		1.5 - 2	43.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
		2.5-3R	19.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
HA - 12	8/26/2022	0 - 0.5	14.2	**624**	**2070**	<49.9	**2690**	<0.0398	0.618	1.14	6.69	8.45
		0.5 - 1	19.7	**104**	**910**	<50.0	**1010**	<0.0398	0.162	0.498	2.96	3.62
		1.5 - 2	27.0	<49.9	68.2	<49.9	68.2	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404
		2.5 - 3	29.2	<49.8	54.4	<49.8	54.4	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403
HA - 13	8/26/2022	0 - 0.5	9.31	<49.9	**163**	<49.9	**163**	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
		0.5 - 1	13.7	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
		1.5 - 2	29.3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
P1	8/26/2022	0 - 0.5	13.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396
P2	8/26/2022	0 - 0.5	11.6	<49.9	56.2	<49.9	56.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
P3	8/26/2022	0 - 0.5	9.15	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
P4	8/26/2022	0 - 0.5	12.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400

Bold and highlighted denotes concentrations that exceed 19.15.29 NMAC.

R = Refusal of soil boring advancement due to onsite soil lithology

Table 2. Summary of Confirmation Soil Analytical Results
Marathon Petroleum - CTB 145
GPS: 32.135747, -103.612835
Lea County, New Mexico

			Chlorides (mg/kg)	Gasoline Range Organics (GRO)-C6-C10 (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)
	19.15.29 NMAC Remediation Guidelines		**600**				**100**	**10**				**50**
Sample ID	**Sample Date**	**Sample Depth (ft.)**										
CS-1	10/12/2022	1 - 1.5	36.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
CS-2	10/12/2022	1 - 1.5	<5.02	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396
CS-3	10/12/2022	1 - 1.5	23.1	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-4	10/12/2022	1 - 1.5	14.4	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-5	10/12/2022	1 - 1.5	21.3	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403
CS-6	10/12/2022	0 - 0.5	24.8	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-7	10/12/2022	1.5 - 2	34.7	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
CS-8	10/12/2022	1.5 - 2	16.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
CS-9	10/12/2022	4 - 4.5	40.7	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-10	10/12/2022	4 - 4.5	13.8	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-11	10/12/2022	1.5 - 2	43.8	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
CS-12	10/12/2022	1.5 - 2	28.6	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-13	10/12/2022	4 - 4.5	37.7	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-14	10/12/2022	4 - 4.5	39.5	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396
CS-15	10/12/2022	10 - 10.5	184	**716**	**1,170**	<50.0	**1,890**	0.00271	0.364	0.203	4.82	3.35
	11/1/2022	10 - 10.5	14	**532**	**2,380**	**260**	**3,170**	0.295	1.31	2.3	13.8	17.7
	11/1/2022	10.5 - 11	45.6	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
	11/1/2022	11.5 - 12	28.3	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396
	11/1/2022	12.5 - 13	13.9	<50.0	77	<50.0	77	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
	12/1/2022	12 - 12.5	22	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
CS-16	10/12/2022	5.5 - 6	17.0	<50.0	52.0	<50.0	52.0	<0.00202	0.00557	0.00203	0.00991	0.0175
CS-17	10/12/2022	4 - 4.5	41.5	<50.0	57.0	<50.0	57.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-18	10/12/2022	1 - 1.5	44.6	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-19	10/12/2022	2 - 2.5	17.2	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-20	10/12/2022	2 - 2.5	20.2	<49.9	**144**	<49.9	**144**	<0.00200	<0.00200	0.00243	<0.00399	<0.00399
	12/1/2022	2.5 - 3	19.4	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-21	10/12/2022	2 - 2.5	29.0	<49.8	**615**	<49.8	**615**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
	12/1/2022	2.5 - 3	15.6	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-22	10/12/2022	2 - 2.5	86.8	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	0.0147	0.0147
CS-23	10/12/2022	2 - 2.5	24.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
CS-24	10/12/2022	2 - 2.5	28.1	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396
CS-25	10/12/2022	2 - 2.5	28.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-26	10/12/2022	2 - 2.5	25.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403
CS-27	10/12/2022	2 - 2.5	39.3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-28	10/12/2022	1 - 1.5	16.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-29	10/12/2022	1 - 1.5	17.2	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
SW-1	10/12/2022	0.5'	35.7	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
SW-2	10/12/2022	0.5'	15.7	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
SW-3	10/12/2022	2'	21.1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
SW-4	10/12/2022	0.5'	17.0	<50.0	**148**	<50.0	**148**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
SW-5	11/1/2022	6'	16	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	0.00233	0.011	0.0133
SW-6	11/1/2022	6'	14.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
SW-7	11/1/2022	6'	15.8	<49.8	60.3	<49.8	60.3	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396
SW-8	12/1/2022	0.5'	21.8	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398

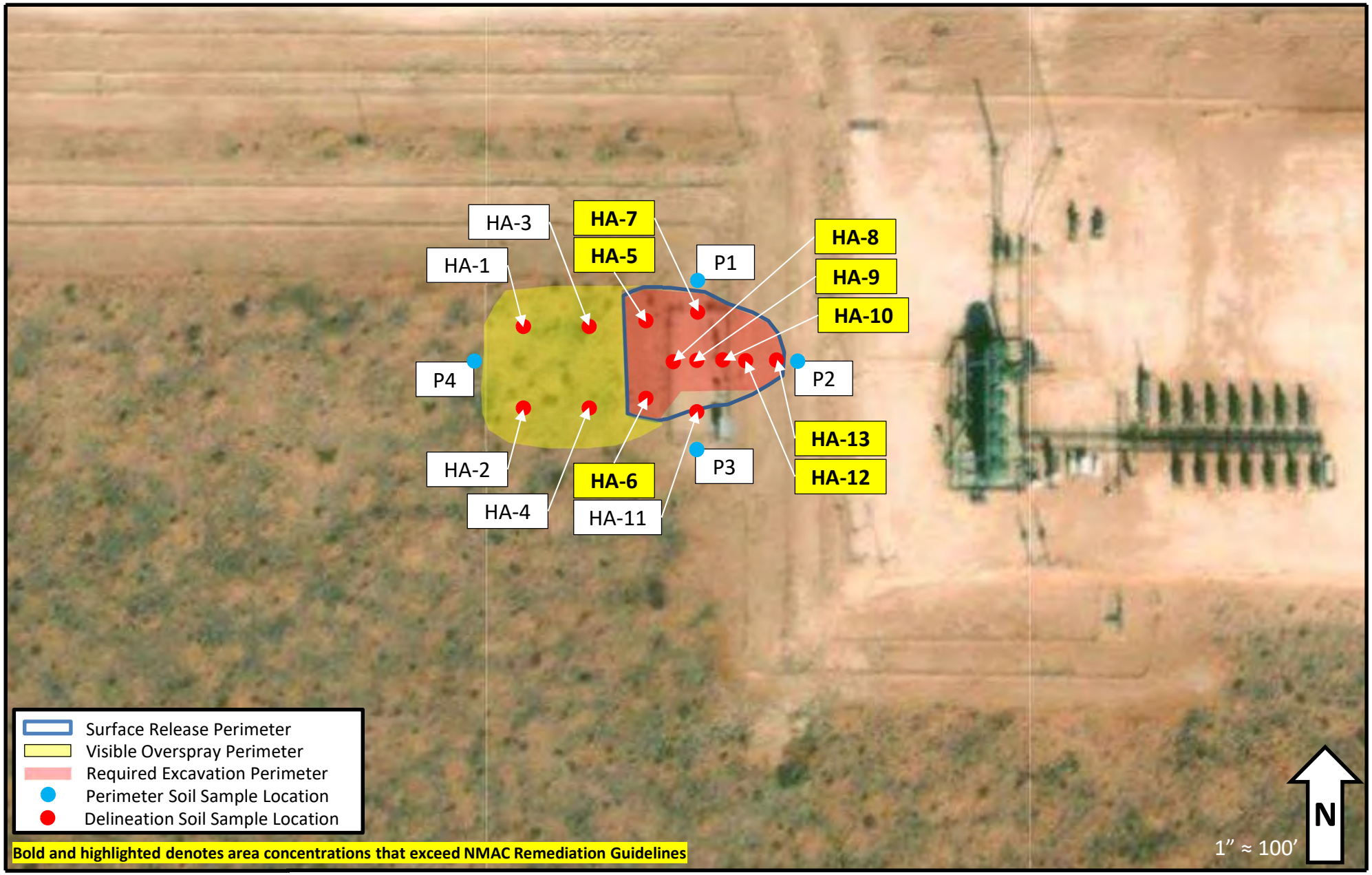
Bold and highlighted denotes concentrations that exceed 19.15.29 NMAC.

R = Refusal of soil boring advancement due to onsite soil lithology

Earth Systems
Response & Restoration

Figure 1 - Site Location Map

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico



Earth Systems
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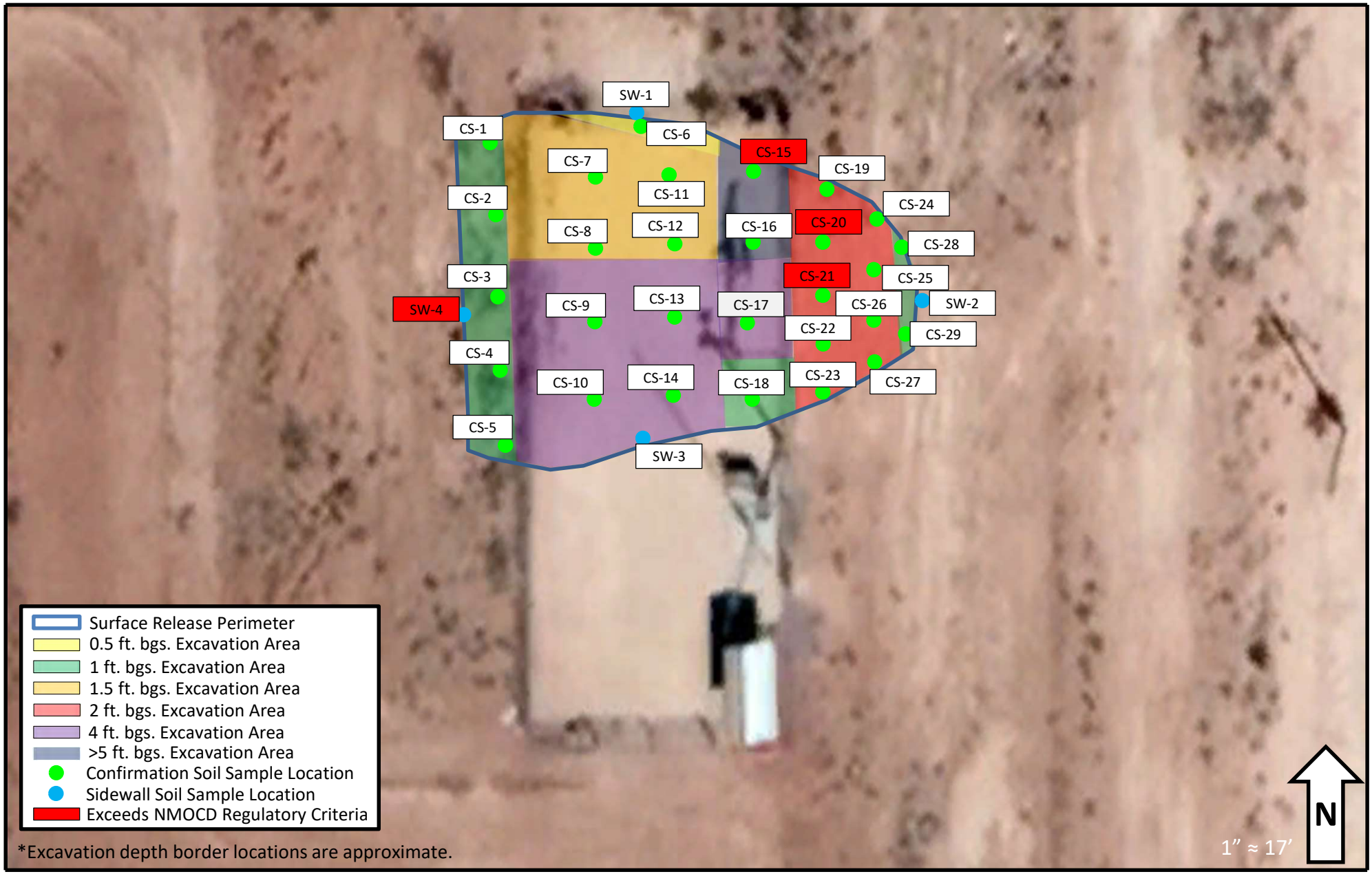
Figure 2 – Delineation Soil Sample Locations and Site Map – 8/26/2022

Marathon Petroleum – CTB 145
GPS: 32.135747, -612835
Lea County, New Mexico



Earth Systems
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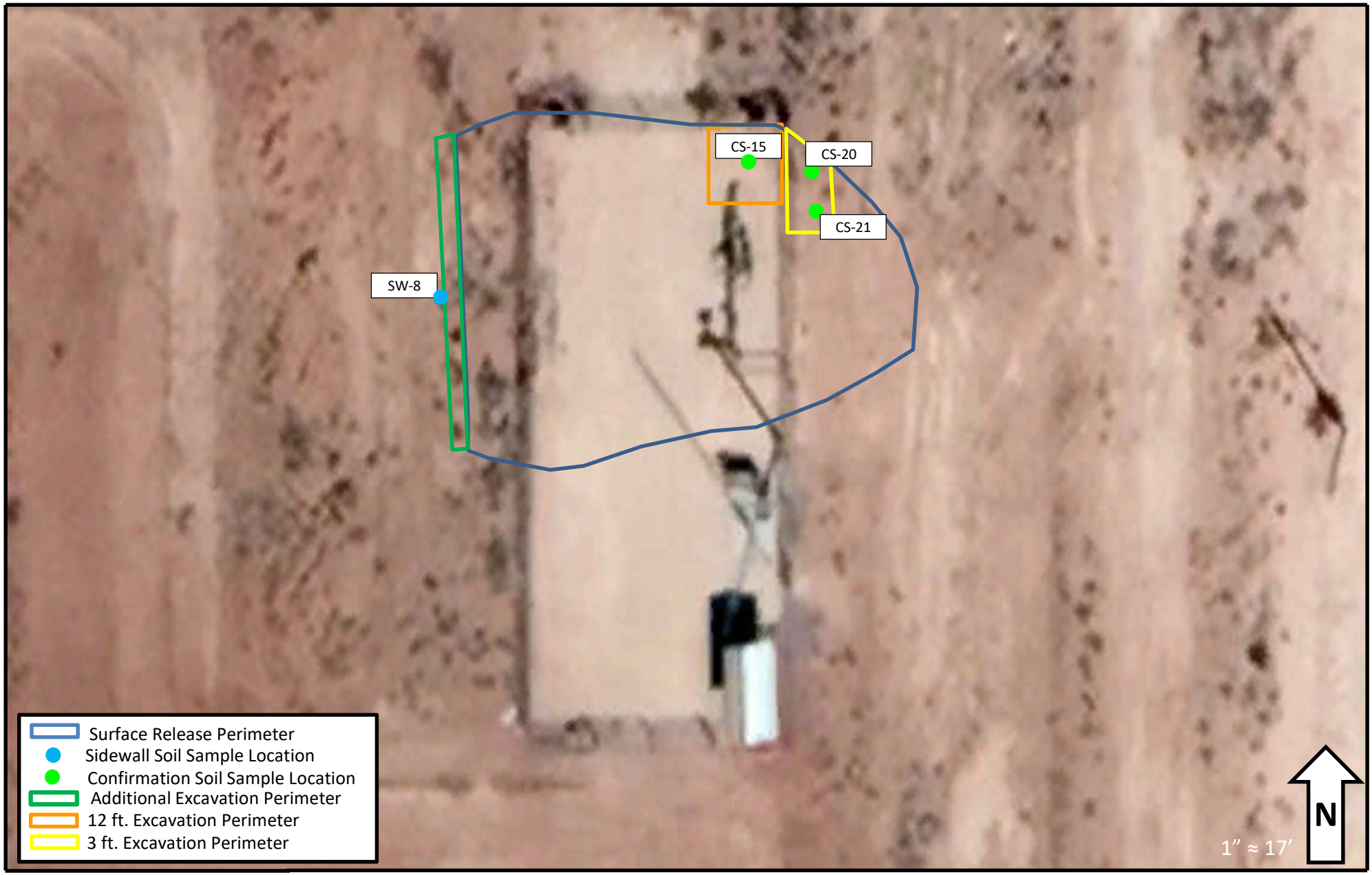
Figure 3 - Confirmation Soil Sample Locations and Site Map - 10/12/2022

Marathon Petroleum – CTB 145
GPS: 32.135747, -103.612835
Lea County, New Mexico

Earth Systems
Response & Restoration

Figure 4 - Confirmation Soil Sample Locations and Site Map - 11/1/2022

Marathon Petroleum – CTB 145
GPS: 32.135747, -103.612835
Lea County, New Mexico



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Response & Restoration

Figure 5 - Confirmation Soil Sample Locations and Site Map - 12/1/2022

Marathon Petroleum – CTB 145
GPS: 32.135747, -103.612835
Lea County, New Mexico

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

PHOTO 1: View of the impacted area facing south. 8/25/22

PHOTO 2: View of the impacted area facing northwest 8/25/22

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

PHOTO 3: View of the impacted area facing northeast. 8/25/22

PHOTO 4: View of the impacted area facing northwest. 8/26/22

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

PHOTO 5: View of the impacted area facing south. 8/26/22

PHOTO 6: View of the excavated area facing south. 8/30/22

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

PHOTO 7: View of the excavated area facing north. 8/30/22

PHOTO 8: View of the excavated area facing south. 9/30/22

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

PHOTO 9: View of the excavated area facing northeast. 9/30/22

PHOTO 10: View of the excavated area facing south. 10/12/22

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

PHOTO 11: View of the excavated area facing north. 10/12/22

PHOTO 12: View of the excavated area facing north. 10/12/22

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

PHOTO 13: View of the additionally excavated area, associated with sample area CS-15, under the riser facing south. 11/28/22

PHOTO 14: View of the additionally excavated area, associated with sample area CS-15, under the riser facing south. 11/28/22

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

PHOTO 15: View of the additionally excavated area, associated with sample area CS-20 and CS-21, facing southwest. 11/28/22

PHOTO 16: View of the additionally excavated area, associated with sample area CS-20 and CS-21, facing south. 11/28/22

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

PHOTO 17: View of the remediated and backfilled area within the riser security fence facing north. 1/3/23

PHOTO 18: View of the remediated and backfilled area within the riser security fence facing southeast. 1/3/23

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

PHOTO 13: View of the excavated area facing south. 12/1/22

PHOTO 19: View of the remediated and backfilled area within the riser security fence facing northeast. 1/3/23

PHOTO 20: View of the remediated and backfilled native soil area west of the riser area facing south. 1/3/23

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

PHOTO 21: View of the remediated and backfilled native soil area east of the riser area facing west. 1/3/23

PHOTO 22: View of the remediated and backfilled native soil area east of the riser area facing south. 1/3/23

Groundwater Research

Depth to Groundwater Radius Map

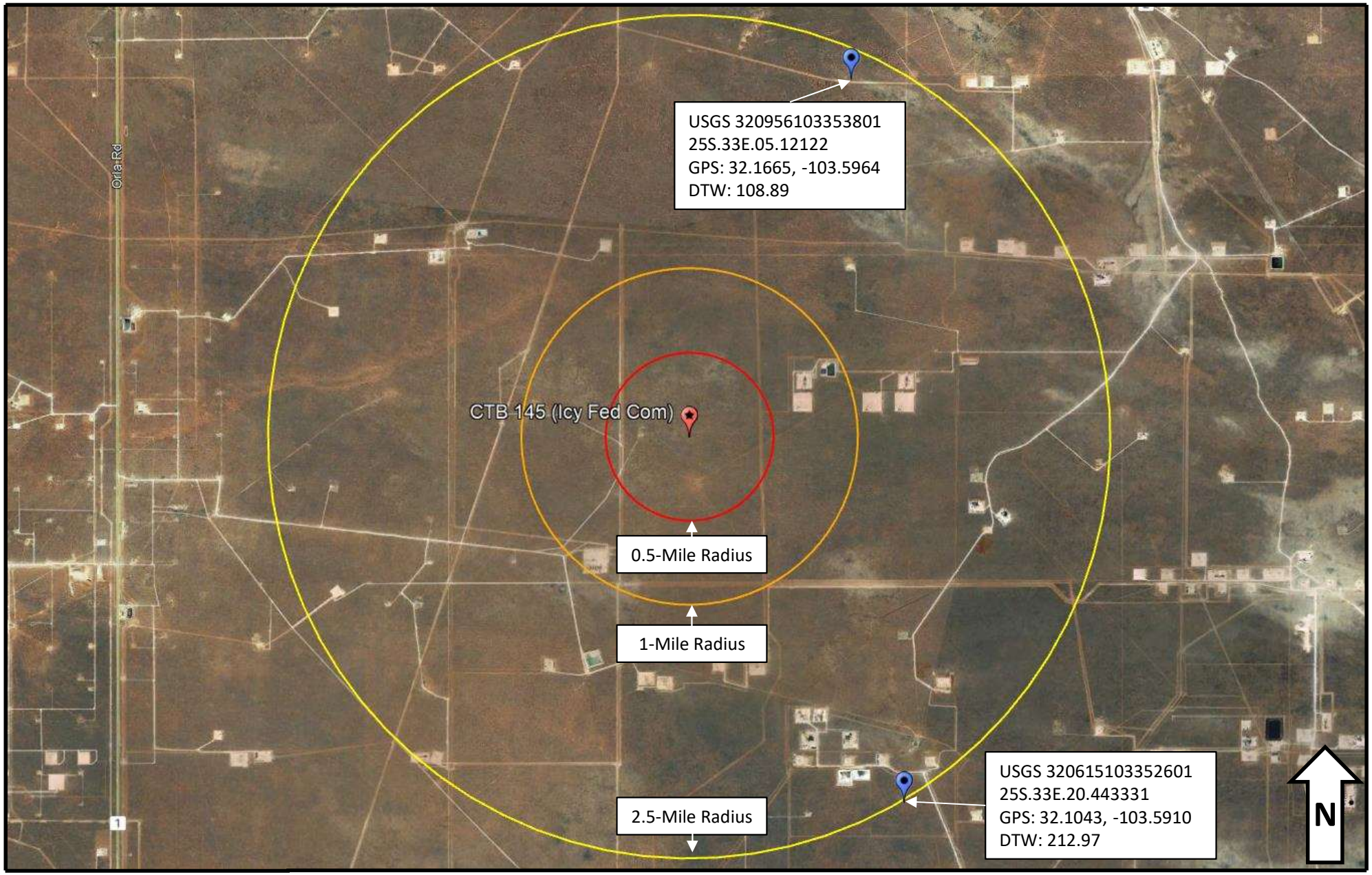
Depth to Groundwater and Water Bodies Map

Karst Potential Map

NMOSE Average Depth to Water

USGS Nation Water Information System

New Mexico NFHL Data

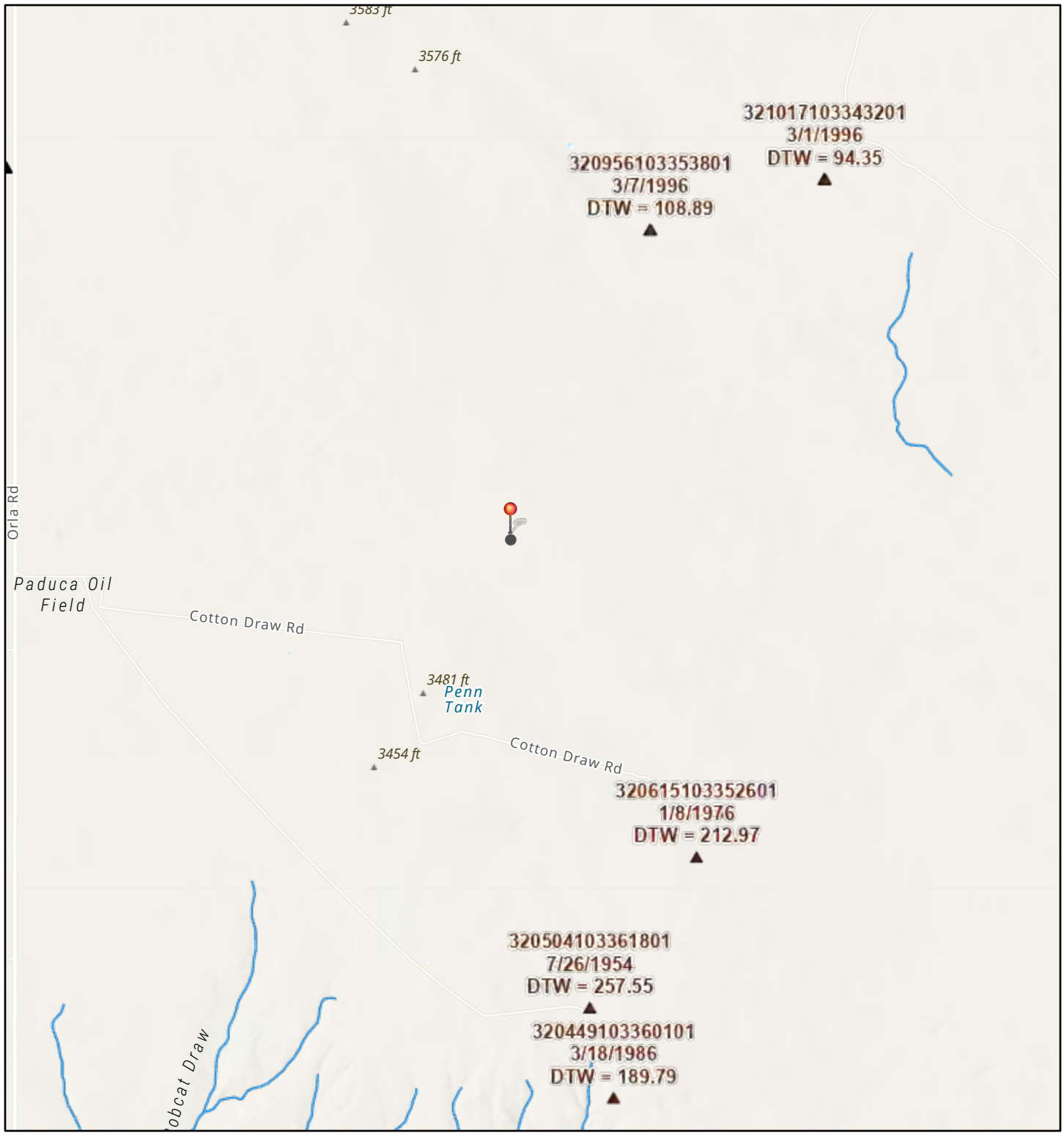


Earth Systems
Response & Restoration

Depth to Groundwater Radius Map

CTB 145 (Icy 18 Fed Com)
GPS: 32.135747, -103.612835
Lea County, New Mexico

Depth to Groundwater and Water Bodies Map



1/27/2023, 3:03:08 PM

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

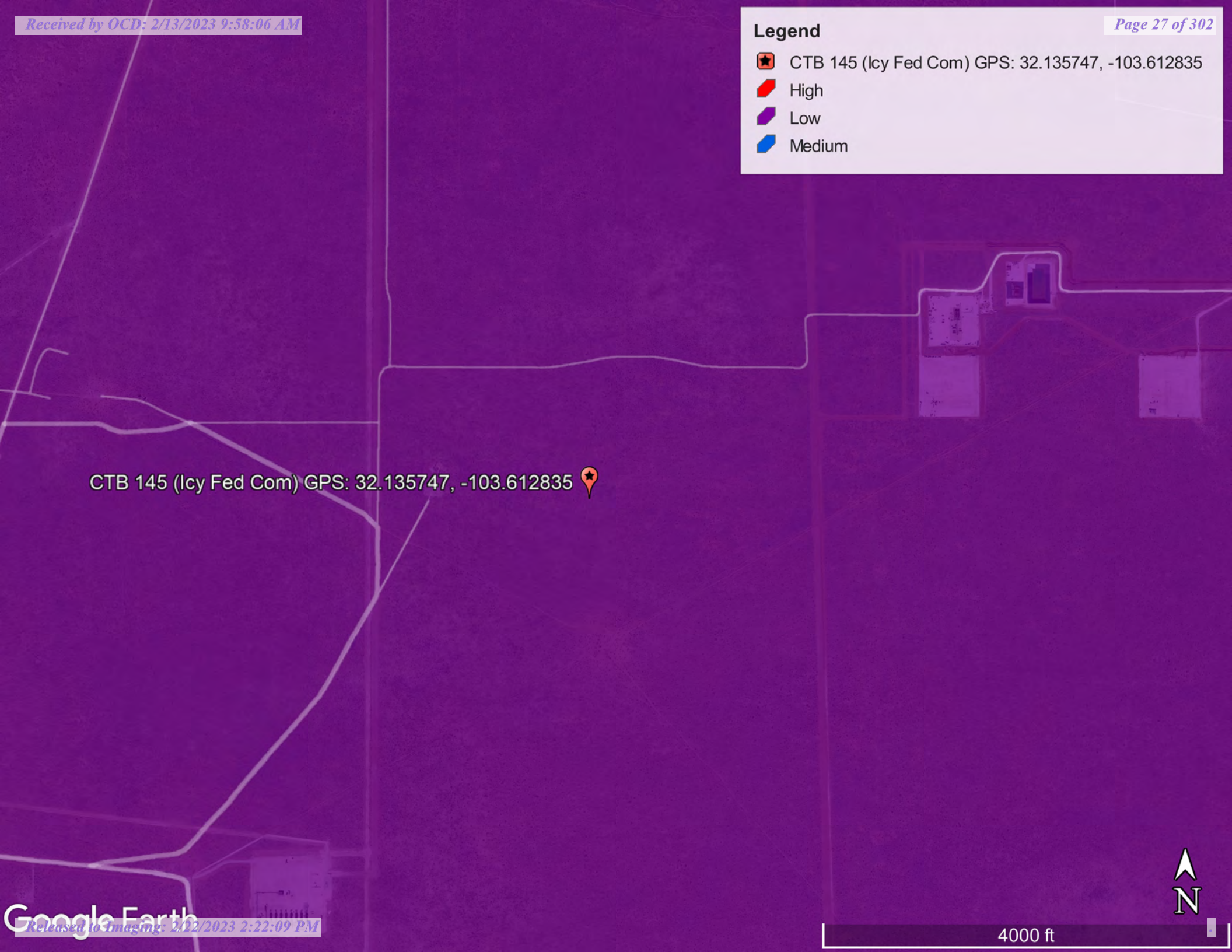
CTB 145 (Icy 18 Fed Com)

USGS Historical GW Wells

OSE Streams

Esri, NASA, NGA, USGS, FEMA, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USGS, NM OSE

New Mexico Oil Conservation Division



New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04627 POD1	CUB	LE	3	3	4	08	25S	33E	632665	3556725	1877			
C 02312	CUB	LE	1	2	1	05	25S	33E	632292	3559772	3748	150	90	60

Average Depth to Water: **90 feet**

Minimum Depth: **90 feet**

Maximum Depth: **90 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 630831.847 **Northing (Y):** 3556319.537 **Radius:** 4000

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National Water Information System: Mapper

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320615103352601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320615103352601 25S.33E.20.443331

Lea County, New Mexico
Latitude 32°06'15", Longitude 103°35'26" NAD27
Land-surface elevation 3,404 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1970-12-08		D	62610		3189.60	NGVD29	1	Z			A
1970-12-08		D	62611		3191.23	NAVD88	1	Z			A
1970-12-08		D	72019	212.77			1	Z			A
1976-01-08		D	62610		3189.40	NGVD29	1	Z			A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1976-01-08		D	62611		3191.03	NAVD88	1	Z			A
1976-01-08		D	72019	212.97			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2023-01-27 16:36:47 EST
0.29 0.25 nadww02

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

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- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320956103353801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320956103353801 25S.33E.05.12122

Lea County, New Mexico
Latitude 32°09'59.4", Longitude 103°35'47.2" NAD83
Land-surface elevation 3,473.00 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1981-03-25		D	62610		3365.17	NGVD29	1	Z			A
1981-03-25		D	62611		3366.84	NAVD88	1	Z			A
1981-03-25		D	72019	107.83			1	Z			A
1986-03-12		D	62610		3363.66	NGVD29	1	Z			A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1986-03-12		D	62611		3365.33	NAVD88	1	Z			A
1986-03-12		D	72019	109.34			1	Z			A
1991-06-06		D	62610		3365.42	NGVD29	1	Z			A
1991-06-06		D	62611		3367.09	NAVD88	1	Z			A
1991-06-06		D	72019	107.58			1	Z			A
1996-03-07		D	62610		3364.11	NGVD29	P	S			A
1996-03-07		D	62611		3365.78	NAVD88	P	S			A
1996-03-07		D	72019	108.89			P	S			A
2013-01-17	16:00 UTC	m	62610		3354.19	NGVD29	P	S	USGS	S	A
2013-01-17	16:00 UTC	m	62611		3355.86	NAVD88	P	S	USGS	S	A
2013-01-17	16:00 UTC	m	72019	118.81			P	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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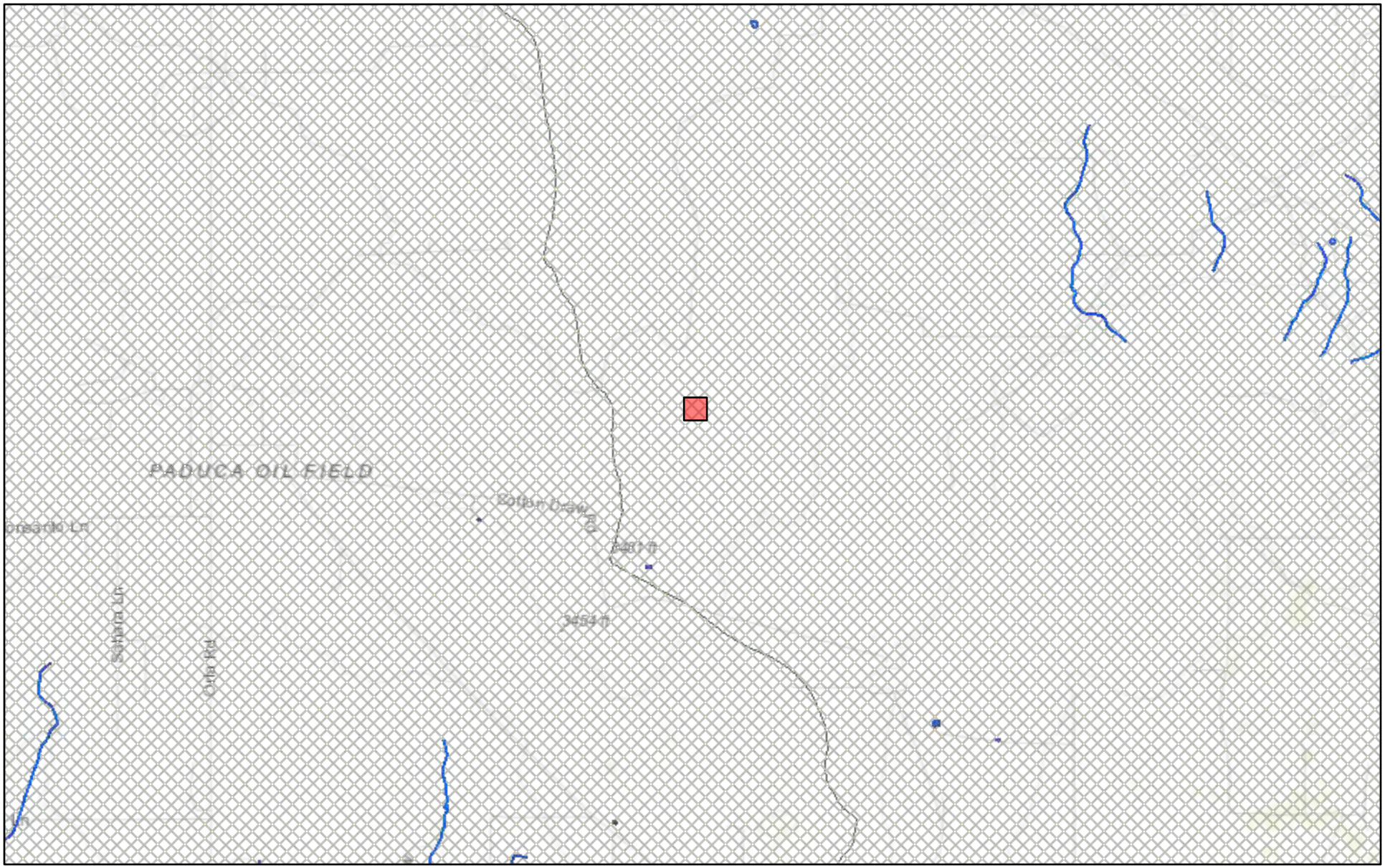
U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2023-01-27 16:53:19 EST
0.28 0.23 nadww01

New Mexico NFHL Data



January 27, 2023

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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eurofins | Environment Testing America

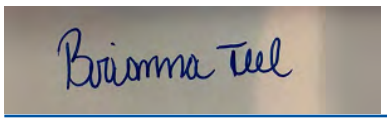
ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-18584-1
Laboratory Sample Delivery Group: 1284
Client Project/Site: CTB 145

For:
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Attn: Kris Williams



Authorized for release by:
9/5/2022 12:58:37 PM

Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Laboratory Job ID: 880-18584-1
SDG: 1284

Table of Contents

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Job ID: 880-18584-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-18584-1

Receipt
The samples were received on 8/29/2022 8:42 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33195 and analytical batch 880-33557 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-8 0.5-1 (880-18584-22), HA-10 0.5-1 (880-18584-29) and HA-10 1.5-2 (880-18584-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-33193 and analytical batch 880-33586 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-33193/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-18584-A-1-A MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: HA-12 0-0.5 (880-18584-36). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33569 and analytical batch 880-33649 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33239/2-A) and (LCSD 880-33239/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA-4 0-0.5 (880-18584-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33240/2-A) and (LCSD 880-33240/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA-9 0.5-1 (880-18584-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-9 2.5-3R (880-18584-28) and HA-10 1.5-2 (880-18584-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA-10 2.5-3 (880-18584-31). Evidence of

Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Job ID: 880-18584-1 (Continued)

Laboratory: Eurofins Midland (Continued)

matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-11 1.5-2 (880-18584-34), HA-11 2.5-3R (880-18584-35) and HA-12 0-0.5 (880-18584-36). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-12 2.5-3 (880-18584-39) and HA-13 0-0.5 (880-18584-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-8 0.5-1 (880-18584-22) and HA-10 0.5-1 (880-18584-29). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33268/2-A) and (LCSD 880-33268/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33268 and analytical batch 880-33307 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33236 and analytical batch 880-33349 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33237 and analytical batch 880-33366 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-1 0-0.5

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 10:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 10:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 10:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/29/22 11:04	09/02/22 10:57	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		08/29/22 11:04	09/02/22 10:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/29/22 11:04	09/02/22 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/29/22 11:04*	*09/02/22 10:57*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/29/22 11:04*	*09/02/22 10:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 21:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 21:46	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*08/29/22 14:14*	*08/29/22 21:46*	*1*
o-Terphenyl	*92*		*70 - 130*	*08/29/22 14:14*	*08/29/22 21:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.1**		4.97		mg/Kg			08/29/22 21:48	1

Client Sample ID: HA-1 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 11:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 11:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 11:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/29/22 11:04	09/02/22 11:18	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/29/22 11:04	09/02/22 11:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/29/22 11:04	09/02/22 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*08/29/22 11:04*	*09/02/22 11:18*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*08/29/22 11:04*	*09/02/22 11:18*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-1 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-2
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 22:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 22:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/29/22 14:14*	*08/29/22 22:51*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/29/22 14:14*	*08/29/22 22:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.0**		5.00		mg/Kg			08/29/22 21:55	1

Client Sample ID: HA-1 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 11:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 11:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 11:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/29/22 11:04	09/02/22 11:38	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/29/22 11:04	09/02/22 11:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/29/22 11:04	09/02/22 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/29/22 11:04*	*09/02/22 11:38*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/29/22 11:04*	*09/02/22 11:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/29/22 23:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/29/22 23:13	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-1 1.5-2

Lab Sample ID: 880-18584-3
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/29/22 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/29/22 14:14*	*08/29/22 23:13*	*1*
o-Terphenyl	*100*		*70 - 130*	*08/29/22 14:14*	*08/29/22 23:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.2**		5.00		mg/Kg			08/29/22 22:01	1

Client Sample ID: HA-2 0-0.5

Lab Sample ID: 880-18584-4
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:04	09/02/22 11:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:04	09/02/22 11:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:04	09/02/22 11:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/29/22 11:04	09/02/22 11:59	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		08/29/22 11:04	09/02/22 11:59	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/29/22 11:04	09/02/22 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/29/22 11:04*	*09/02/22 11:59*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/29/22 11:04*	*09/02/22 11:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 23:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 23:34	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/29/22 14:14*	*08/29/22 23:34*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/29/22 14:14*	*08/29/22 23:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.1**		4.96		mg/Kg			08/29/22 22:08	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-2 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 12:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 12:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 12:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/29/22 11:04	09/02/22 12:19	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		08/29/22 11:04	09/02/22 12:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/29/22 11:04	09/02/22 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/29/22 11:04*	*09/02/22 12:19*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/29/22 11:04*	*09/02/22 12:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 23:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 23:56	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/29/22 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*08/29/22 14:14*	*08/29/22 23:56*	*1*
o-Terphenyl	*116*		*70 - 130*	*08/29/22 14:14*	*08/29/22 23:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.3**		4.99		mg/Kg			08/29/22 22:28	1

Client Sample ID: HA-2 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:04	09/02/22 12:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:04	09/02/22 12:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:04	09/02/22 12:40	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/29/22 11:04	09/02/22 12:40	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		08/29/22 11:04	09/02/22 12:40	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/29/22 11:04	09/02/22 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/29/22 11:04*	*09/02/22 12:40*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/29/22 11:04*	*09/02/22 12:40*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-2 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-6
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 00:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 00:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*08/29/22 14:14*	*08/30/22 00:17*	*1*
o-Terphenyl	*118*		*70 - 130*	*08/29/22 14:14*	*08/30/22 00:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.3**		4.98		mg/Kg			08/29/22 22:35	1

Client Sample ID: HA-3 0-0.5

Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 13:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 13:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 13:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/29/22 11:04	09/02/22 13:00	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		08/29/22 11:04	09/02/22 13:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/29/22 11:04	09/02/22 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/29/22 11:04*	*09/02/22 13:00*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*08/29/22 11:04*	*09/02/22 13:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 00:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 00:38	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-3 0-0.5

Lab Sample ID: 880-18584-7
Matrix: Solid
Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/29/22 14:14*	*08/30/22 00:38*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/29/22 14:14*	*08/30/22 00:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.55**		4.98		mg/Kg			08/29/22 22:41	1

Client Sample ID: HA-3 0.5-1

Lab Sample ID: 880-18584-8
Matrix: Solid
Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:04	09/02/22 13:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:04	09/02/22 13:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:04	09/02/22 13:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/29/22 11:04	09/02/22 13:21	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		08/29/22 11:04	09/02/22 13:21	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/29/22 11:04	09/02/22 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/29/22 11:04*	*09/02/22 13:21*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/29/22 11:04*	*09/02/22 13:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/29/22 14:14	08/30/22 00:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/29/22 14:14	08/30/22 00:59	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/22 14:14	08/30/22 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/29/22 14:14*	*08/30/22 00:59*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/29/22 14:14*	*08/30/22 00:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.2**		4.98		mg/Kg			08/29/22 22:48	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-3 1.5-2

Lab Sample ID: 880-18584-9
Date Collected: 08/24/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:04	09/02/22 13:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:04	09/02/22 13:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:04	09/02/22 13:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/29/22 11:04	09/02/22 13:41	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		08/29/22 11:04	09/02/22 13:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/29/22 11:04	09/02/22 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/29/22 11:04*	*09/02/22 13:41*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/29/22 11:04*	*09/02/22 13:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 01:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 01:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*08/29/22 14:14*	*08/30/22 01:20*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/29/22 14:14*	*08/30/22 01:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.8**		5.00		mg/Kg			08/29/22 22:54	1

Client Sample ID: HA-4 0-0.5

Lab Sample ID: 880-18584-10
Date Collected: 08/24/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 14:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 14:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 14:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/29/22 11:04	09/02/22 14:02	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/29/22 11:04	09/02/22 14:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/29/22 11:04	09/02/22 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*08/29/22 11:04*	*09/02/22 14:02*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*08/29/22 11:04*	*09/02/22 14:02*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-4 0-0.5

Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-10
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 01:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 01:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*08/29/22 14:14*	*08/30/22 01:41*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*08/29/22 14:14*	*08/30/22 01:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.2**		5.02		mg/Kg			08/29/22 23:01	1

Client Sample ID: HA-4 0.5-1

Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 15:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 15:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 15:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/29/22 11:04	09/02/22 15:24	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/29/22 11:04	09/02/22 15:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/29/22 11:04	09/02/22 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/29/22 11:04*	*09/02/22 15:24*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/29/22 11:04*	*09/02/22 15:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 02:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 02:23	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-4 0.5-1

Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-11
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*08/29/22 14:14*	*08/30/22 02:23*	*1*
o-Terphenyl	*124*		*70 - 130*	*08/29/22 14:14*	*08/30/22 02:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.5**		5.01		mg/Kg			08/29/22 23:21	1

Client Sample ID: HA-4 1.5-2

Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-12
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:04	09/02/22 15:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:04	09/02/22 15:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:04	09/02/22 15:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/29/22 11:04	09/02/22 15:45	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		08/29/22 11:04	09/02/22 15:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/29/22 11:04	09/02/22 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/29/22 11:04*	*09/02/22 15:45*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/29/22 11:04*	*09/02/22 15:45*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/29/22 14:14	08/30/22 02:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/29/22 14:14	08/30/22 02:44	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/22 14:14	08/30/22 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/29/22 14:14*	*08/30/22 02:44*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/29/22 14:14*	*08/30/22 02:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.3**		5.00		mg/Kg			08/29/22 23:28	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-5 0-0.5

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:04	09/02/22 16:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:04	09/02/22 16:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:04	09/02/22 16:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/29/22 11:04	09/02/22 16:05	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		08/29/22 11:04	09/02/22 16:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/29/22 11:04	09/02/22 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/29/22 11:04*	*09/02/22 16:05*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/29/22 11:04*	*09/02/22 16:05*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**490**		49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/30/22 03:06	1
Diesel Range Organics (Over C10-C28)	**431**		49.9		mg/Kg		08/29/22 14:14	08/30/22 03:06	1
Oil Range Organics (Over C28-C36)	**59.3**		49.9		mg/Kg		08/29/22 14:14	08/30/22 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*08/29/22 14:14*	*08/30/22 03:06*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/29/22 14:14*	*08/30/22 03:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.6**		4.97		mg/Kg			08/29/22 23:48	1

Client Sample ID: HA-5 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 16:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 16:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 16:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/29/22 11:04	09/02/22 16:26	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/29/22 11:04	09/02/22 16:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/29/22 11:04	09/02/22 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/29/22 11:04*	*09/02/22 16:26*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*08/29/22 11:04*	*09/02/22 16:26*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-5 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-14

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**59.4**		50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 03:27	1
Diesel Range Organics (Over C10-C28)	**59.4**		50.0		mg/Kg		08/29/22 14:14	08/30/22 03:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/29/22 14:14*	*08/30/22 03:27*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/29/22 14:14*	*08/30/22 03:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.2**		4.95		mg/Kg			08/29/22 23:55	1

Client Sample ID: HA-5 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-15

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 16:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 16:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 16:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/29/22 11:04	09/02/22 16:46	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/29/22 11:04	09/02/22 16:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/29/22 11:04	09/02/22 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/29/22 11:04*	*09/02/22 16:46*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/29/22 11:04*	*09/02/22 16:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/30/22 03:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/30/22 03:48	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-5 1.5-2

Lab Sample ID: 880-18584-15
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/30/22 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*08/29/22 14:14*	*08/30/22 03:48*	*1*
o-Terphenyl	*116*		*70 - 130*	*08/29/22 14:14*	*08/30/22 03:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.9**		4.95		mg/Kg			08/30/22 00:01	1

Client Sample ID: HA-6 0-0.5

Lab Sample ID: 880-18584-16
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 17:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 17:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 17:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/29/22 11:04	09/02/22 17:06	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		08/29/22 11:04	09/02/22 17:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/29/22 11:04	09/02/22 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*08/29/22 11:04*	*09/02/22 17:06*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*08/29/22 11:04*	*09/02/22 17:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**104**		49.8		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/29/22 14:14	08/30/22 04:10	1
Diesel Range Organics (Over C10-C28)	**104**		49.8		mg/Kg		08/29/22 14:14	08/30/22 04:10	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/22 14:14	08/30/22 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/29/22 14:14*	*08/30/22 04:10*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/29/22 14:14*	*08/30/22 04:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.2**		4.99		mg/Kg			08/30/22 00:08	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-6 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-17
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:04	09/02/22 17:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:04	09/02/22 17:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:04	09/02/22 17:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/29/22 11:04	09/02/22 17:27	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		08/29/22 11:04	09/02/22 17:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/29/22 11:04	09/02/22 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/29/22 11:04*	*09/02/22 17:27*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/29/22 11:04*	*09/02/22 17:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 04:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 04:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/30/22 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*08/29/22 14:14*	*08/30/22 04:31*	*1*
o-Terphenyl	*116*		*70 - 130*	*08/29/22 14:14*	*08/30/22 04:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.2**	**F1 F2**	4.97		mg/Kg			08/31/22 00:07	1

Client Sample ID: HA-6 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-18
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:04	09/02/22 17:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:04	09/02/22 17:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:04	09/02/22 17:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/29/22 11:04	09/02/22 17:47	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		08/29/22 11:04	09/02/22 17:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/29/22 11:04	09/02/22 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/29/22 11:04*	*09/02/22 17:47*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*08/29/22 11:04*	*09/02/22 17:47*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-6 1.5-2

Lab Sample ID: 880-18584-18
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/30/22 04:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/30/22 04:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/30/22 04:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*08/29/22 14:14*	*08/30/22 04:52*	*1*
o-Terphenyl	*114*		*70 - 130*	*08/29/22 14:14*	*08/30/22 04:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.7**		5.01		mg/Kg			08/31/22 00:28	1

Client Sample ID: HA-7 0.5-1

Lab Sample ID: 880-18584-19
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:04	09/02/22 18:08	1
Toluene	**0.00521**		0.00201		mg/Kg		08/29/22 11:04	09/02/22 18:08	1
Ethylbenzene	**0.0216**		0.00201		mg/Kg		08/29/22 11:04	09/02/22 18:08	1
m-Xylene & p-Xylene	**0.101**		0.00402		mg/Kg		08/29/22 11:04	09/02/22 18:08	1
o-Xylene	**0.0390**	*+	0.00201		mg/Kg		08/29/22 11:04	09/02/22 18:08	1
Xylenes, Total	**0.140**		0.00402		mg/Kg		08/29/22 11:04	09/02/22 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*	*08/29/22 11:04*	*09/02/22 18:08*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/29/22 11:04*	*09/02/22 18:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.167**		0.00402		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**786**		49.8		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/29/22 14:14	08/30/22 05:13	1
Diesel Range Organics (Over C10-C28)	**715**		49.8		mg/Kg		08/29/22 14:14	08/30/22 05:13	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-7 0.5-1

Lab Sample ID: 880-18584-19
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	70.9		49.8		mg/Kg		08/29/22 14:14	08/30/22 05:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*08/29/22 14:14*	*08/30/22 05:13*	*1*
o-Terphenyl	*95*		*70 - 130*	*08/29/22 14:14*	*08/30/22 05:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.4		5.02		mg/Kg			08/31/22 00:35	1

Client Sample ID: HA-7 1.5-2

Lab Sample ID: 880-18584-20
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 18:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 18:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 18:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/29/22 11:04	09/02/22 18:28	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/29/22 11:04	09/02/22 18:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/29/22 11:04	09/02/22 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/29/22 11:04*	*09/02/22 18:28*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/29/22 11:04*	*09/02/22 18:28*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/30/22 05:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/30/22 05:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:14	08/30/22 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/29/22 14:14*	*08/30/22 05:34*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/29/22 14:14*	*08/30/22 05:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.0		5.00		mg/Kg			08/31/22 00:41	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-7 2.5-3R

Lab Sample ID: 880-18584-21
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		08/29/22 11:12	09/02/22 06:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:12	09/02/22 06:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:12	09/02/22 06:02	1
m-Xylene & p-Xylene	**0.0206**		0.00402		mg/Kg		08/29/22 11:12	09/02/22 06:02	1
o-Xylene	**0.00928**		0.00201		mg/Kg		08/29/22 11:12	09/02/22 06:02	1
Xylenes, Total	**0.0299**		0.00402		mg/Kg		08/29/22 11:12	09/02/22 06:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*08/29/22 11:12*	*09/02/22 06:02*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/29/22 11:12*	*09/02/22 06:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0299**		0.00402		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**69.7**		49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 11:35	1
Diesel Range Organics (Over C10-C28)	**69.7**		49.9		mg/Kg		08/29/22 14:17	08/30/22 11:35	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/29/22 14:17*	*08/30/22 11:35*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/29/22 14:17*	*08/30/22 11:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.4**		4.98		mg/Kg			08/31/22 00:48	1

Client Sample ID: HA-8 0.5-1

Lab Sample ID: 880-18584-22
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0994	U	0.0994		mg/Kg		08/29/22 11:12	09/02/22 07:24	50
Toluene	**2.81**		0.0994		mg/Kg		08/29/22 11:12	09/02/22 07:24	50
Ethylbenzene	**1.95**		0.0994		mg/Kg		08/29/22 11:12	09/02/22 07:24	50
m-Xylene & p-Xylene	**12.5**		0.199		mg/Kg		08/29/22 11:12	09/02/22 07:24	50
o-Xylene	**4.10**		0.0994		mg/Kg		08/29/22 11:12	09/02/22 07:24	50
Xylenes, Total	**16.6**		0.199		mg/Kg		08/29/22 11:12	09/02/22 07:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*20*	*S1-*	*70 - 130*	*08/29/22 11:12*	*09/02/22 07:24*	*50*
1,4-Difluorobenzene (Surr)	*15*	*S1-*	*70 - 130*	*08/29/22 11:12*	*09/02/22 07:24*	*50*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-8 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-22

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	21.4		0.199		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19000		249		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	5380		249		mg/Kg		08/29/22 14:17	08/31/22 07:11	5
Diesel Range Organics (Over C10-C28)	13600		249		mg/Kg		08/29/22 14:17	08/31/22 07:11	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		08/29/22 14:17	08/31/22 07:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*795*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/31/22 07:11*	*5*
o-Terphenyl	*331*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/31/22 07:11*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.7		4.96		mg/Kg			08/31/22 01:09	1

Client Sample ID: HA-8 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-23

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:12	09/02/22 06:23	1
Toluene	0.0656		0.00198		mg/Kg		08/29/22 11:12	09/02/22 06:23	1
Ethylbenzene	0.101		0.00198		mg/Kg		08/29/22 11:12	09/02/22 06:23	1
m-Xylene & p-Xylene	0.654		0.00396		mg/Kg		08/29/22 11:12	09/02/22 06:23	1
o-Xylene	0.239		0.00198		mg/Kg		08/29/22 11:12	09/02/22 06:23	1
Xylenes, Total	0.893		0.00396		mg/Kg		08/29/22 11:12	09/02/22 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*08/29/22 11:12*	*09/02/22 06:23*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/29/22 11:12*	*09/02/22 06:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.06		0.00396		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2120		50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	512		50.0		mg/Kg		08/29/22 14:17	08/30/22 13:01	1
Diesel Range Organics (Over C10-C28)	1610		50.0		mg/Kg		08/29/22 14:17	08/30/22 13:01	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-8 1.5-2

Lab Sample ID: 880-18584-23
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*08/29/22 14:17*	*08/30/22 13:01*	*1*
o-Terphenyl	*86*		*70 - 130*	*08/29/22 14:17*	*08/30/22 13:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.4**		5.00		mg/Kg			08/31/22 01:16	1

Client Sample ID: HA-8 2.5-3

Lab Sample ID: 880-18584-24
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0400	U	0.0400		mg/Kg		08/29/22 11:12	09/02/22 07:44	20
Toluene	**0.0908**		0.0400		mg/Kg		08/29/22 11:12	09/02/22 07:44	20
Ethylbenzene	**0.390**		0.0400		mg/Kg		08/29/22 11:12	09/02/22 07:44	20
m-Xylene & p-Xylene	**1.88**		0.0800		mg/Kg		08/29/22 11:12	09/02/22 07:44	20
o-Xylene	**0.677**		0.0400		mg/Kg		08/29/22 11:12	09/02/22 07:44	20
Xylenes, Total	**2.56**		0.0800		mg/Kg		08/29/22 11:12	09/02/22 07:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/29/22 11:12*	*09/02/22 07:44*	*20*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*08/29/22 11:12*	*09/02/22 07:44*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**3.04**		0.0800		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1300**		49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**295**		49.9		mg/Kg		08/29/22 14:17	08/30/22 13:23	1
Diesel Range Organics (Over C10-C28)	**1000**		49.9		mg/Kg		08/29/22 14:17	08/30/22 13:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*08/29/22 14:17*	*08/30/22 13:23*	*1*
o-Terphenyl	*91*		*70 - 130*	*08/29/22 14:17*	*08/30/22 13:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.4**		5.03		mg/Kg			08/31/22 01:23	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-8 3.5-4

Lab Sample ID: 880-18584-25
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0503	U	0.0503		mg/Kg		08/29/22 11:12	09/02/22 08:05	25
Toluene	**0.110**		0.0503		mg/Kg		08/29/22 11:12	09/02/22 08:05	25
Ethylbenzene	**0.533**		0.0503		mg/Kg		08/29/22 11:12	09/02/22 08:05	25
m-Xylene & p-Xylene	**2.40**		0.101		mg/Kg		08/29/22 11:12	09/02/22 08:05	25
o-Xylene	**0.900**		0.0503		mg/Kg		08/29/22 11:12	09/02/22 08:05	25
Xylenes, Total	**3.30**		0.101		mg/Kg		08/29/22 11:12	09/02/22 08:05	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/29/22 11:12*	*09/02/22 08:05*	*25*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*08/29/22 11:12*	*09/02/22 08:05*	*25*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**3.94**		0.101		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2180**		49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**500**		49.9		mg/Kg		08/29/22 14:17	08/30/22 13:44	1
Diesel Range Organics (Over C10-C28)	**1680**		49.9		mg/Kg		08/29/22 14:17	08/30/22 13:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*08/29/22 14:17*	*08/30/22 13:44*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/29/22 14:17*	*08/30/22 13:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.3**		5.05		mg/Kg			08/31/22 01:29	1

Client Sample ID: HA-9 0.5-1

Lab Sample ID: 880-18584-26
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.101	U	0.101		mg/Kg		08/29/22 11:12	09/02/22 08:25	50
Toluene	**4.85**		0.101		mg/Kg		08/29/22 11:12	09/02/22 08:25	50
Ethylbenzene	**4.52**		0.101		mg/Kg		08/29/22 11:12	09/02/22 08:25	50
m-Xylene & p-Xylene	**28.2**		0.202		mg/Kg		08/29/22 11:12	09/02/22 08:25	50
o-Xylene	**9.85**		0.101		mg/Kg		08/29/22 11:12	09/02/22 08:25	50
Xylenes, Total	**38.1**		0.202		mg/Kg		08/29/22 11:12	09/02/22 08:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/29/22 11:12*	*09/02/22 08:25*	*50*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/29/22 11:12*	*09/02/22 08:25*	*50*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-9 0.5-1

Lab Sample ID: 880-18584-26
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**47.4**		0.202		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**7060**		50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1820**		50.0		mg/Kg		08/29/22 14:17	08/30/22 14:06	1
Diesel Range Organics (Over C10-C28)	**5240**		50.0		mg/Kg		08/29/22 14:17	08/30/22 14:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*248*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/30/22 14:06*	*1*
o-Terphenyl	*113*		*70 - 130*	*08/29/22 14:17*	*08/30/22 14:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.6**		4.95		mg/Kg			08/31/22 01:36	1

Client Sample ID: HA-9 1.5-2

Lab Sample ID: 880-18584-27
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:12	09/02/22 06:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:12	09/02/22 06:43	1
Ethylbenzene	**0.00505**		0.00199		mg/Kg		08/29/22 11:12	09/02/22 06:43	1
m-Xylene & p-Xylene	**0.0403**		0.00398		mg/Kg		08/29/22 11:12	09/02/22 06:43	1
o-Xylene	**0.0190**		0.00199		mg/Kg		08/29/22 11:12	09/02/22 06:43	1
Xylenes, Total	**0.0593**		0.00398		mg/Kg		08/29/22 11:12	09/02/22 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*08/29/22 11:12*	*09/02/22 06:43*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/29/22 11:12*	*09/02/22 06:43*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0644**		0.00398		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**209**		50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 14:28	1
Diesel Range Organics (Over C10-C28)	**209**		50.0		mg/Kg		08/29/22 14:17	08/30/22 14:28	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-9 1.5-2

Lab Sample ID: 880-18584-27
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*08/29/22 14:17*	*08/30/22 14:28*	*1*
o-Terphenyl	*121*		*70 - 130*	*08/29/22 14:17*	*08/30/22 14:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.0**		5.04		mg/Kg			08/31/22 01:43	1

Client Sample ID: HA-9 2.5-3R

Lab Sample ID: 880-18584-28
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:12	09/02/22 07:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:12	09/02/22 07:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:12	09/02/22 07:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/29/22 11:12	09/02/22 07:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:12	09/02/22 07:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/29/22 11:12	09/02/22 07:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*08/29/22 11:12*	*09/02/22 07:04*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/29/22 11:12*	*09/02/22 07:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**58.2**		49.8		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/29/22 14:17	08/30/22 14:49	1
Diesel Range Organics (Over C10-C28)	**58.2**		49.8		mg/Kg		08/29/22 14:17	08/30/22 14:49	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/22 14:17	08/30/22 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/30/22 14:49*	*1*
o-Terphenyl	*121*		*70 - 130*	*08/29/22 14:17*	*08/30/22 14:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.95**		4.99		mg/Kg			08/31/22 02:04	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-10 0.5-1

Lab Sample ID: 880-18584-29
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.235**		0.101		mg/Kg		08/29/22 11:12	09/02/22 08:46	50
Toluene	**3.44**		0.101		mg/Kg		08/29/22 11:12	09/02/22 08:46	50
Ethylbenzene	**1.50**		0.101		mg/Kg		08/29/22 11:12	09/02/22 08:46	50
m-Xylene & p-Xylene	**9.02**		0.202		mg/Kg		08/29/22 11:12	09/02/22 08:46	50
o-Xylene	**3.09**		0.101		mg/Kg		08/29/22 11:12	09/02/22 08:46	50
Xylenes, Total	**12.1**		0.202		mg/Kg		08/29/22 11:12	09/02/22 08:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*11*	*S1-*	*70 - 130*	*08/29/22 11:12*	*09/02/22 08:46*	*50*
1,4-Difluorobenzene (Surr)	*7*	*S1-*	*70 - 130*	*08/29/22 11:12*	*09/02/22 08:46*	*50*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**17.3**		0.202		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**19100**		250		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**7070**		250		mg/Kg		08/29/22 14:17	08/31/22 06:36	5
Diesel Range Organics (Over C10-C28)	**12000**		250		mg/Kg		08/29/22 14:17	08/31/22 06:36	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		08/29/22 14:17	08/31/22 06:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*729*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/31/22 06:36*	*5*
o-Terphenyl	*277*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/31/22 06:36*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		5.00		mg/Kg			08/31/22 02:10	1

Client Sample ID: HA-10 1.5-2

Lab Sample ID: 880-18584-30
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0994	U	0.0994		mg/Kg		08/29/22 11:12	09/02/22 09:06	50
Toluene	**2.77**		0.0994		mg/Kg		08/29/22 11:12	09/02/22 09:06	50
Ethylbenzene	**1.73**		0.0994		mg/Kg		08/29/22 11:12	09/02/22 09:06	50
m-Xylene & p-Xylene	**11.4**		0.199		mg/Kg		08/29/22 11:12	09/02/22 09:06	50
o-Xylene	**3.74**		0.0994		mg/Kg		08/29/22 11:12	09/02/22 09:06	50
Xylenes, Total	**15.1**		0.199		mg/Kg		08/29/22 11:12	09/02/22 09:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*18*	*S1-*	*70 - 130*	*08/29/22 11:12*	*09/02/22 09:06*	*50*
1,4-Difluorobenzene (Surr)	*12*	*S1-*	*70 - 130*	*08/29/22 11:12*	*09/02/22 09:06*	*50*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-10 1.5-2

Lab Sample ID: 880-18584-30
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**19.6**		0.199		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4560**		50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1330**		50.0		mg/Kg		08/29/22 14:17	08/30/22 15:32	1
Diesel Range Organics (Over C10-C28)	**3230**		50.0		mg/Kg		08/29/22 14:17	08/30/22 15:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*179*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/30/22 15:32*	*1*
o-Terphenyl	*76*		*70 - 130*	*08/29/22 14:17*	*08/30/22 15:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.0**		5.00		mg/Kg			08/31/22 02:31	1

Client Sample ID: HA-10 2.5-3

Lab Sample ID: 880-18584-31
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0496	U	0.0496		mg/Kg		08/29/22 11:12	09/02/22 13:19	25
Toluene	**0.725**		0.0496		mg/Kg		08/29/22 11:12	09/02/22 13:19	25
Ethylbenzene	**1.19**		0.0496		mg/Kg		08/29/22 11:12	09/02/22 13:19	25
m-Xylene & p-Xylene	**7.00**		0.0992		mg/Kg		08/29/22 11:12	09/02/22 13:19	25
o-Xylene	**2.04**		0.0496		mg/Kg		08/29/22 11:12	09/02/22 13:19	25
Xylenes, Total	**9.04**		0.0992		mg/Kg		08/29/22 11:12	09/02/22 13:19	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/29/22 11:12*	*09/02/22 13:19*	*25*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/29/22 11:12*	*09/02/22 13:19*	*25*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**11.0**		0.0992		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3320**		50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**784**		50.0		mg/Kg		08/29/22 14:17	08/30/22 16:15	1
Diesel Range Organics (Over C10-C28)	**2540**		50.0		mg/Kg		08/29/22 14:17	08/30/22 16:15	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-10 2.5-3

Lab Sample ID: 880-18584-31
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/30/22 16:15*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/29/22 14:17*	*08/30/22 16:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.9**		5.04		mg/Kg			08/31/22 02:38	1

Client Sample ID: HA-10 3.5-4

Lab Sample ID: 880-18584-32
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:12	09/02/22 10:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/29/22 11:12	09/02/22 10:56	1
Ethylbenzene	**0.00199**		0.00198		mg/Kg		08/29/22 11:12	09/02/22 10:56	1
m-Xylene & p-Xylene	**0.0180**		0.00396		mg/Kg		08/29/22 11:12	09/02/22 10:56	1
o-Xylene	**0.00879**		0.00198		mg/Kg		08/29/22 11:12	09/02/22 10:56	1
Xylenes, Total	**0.0268**		0.00396		mg/Kg		08/29/22 11:12	09/02/22 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/29/22 11:12*	*09/02/22 10:56*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/29/22 11:12*	*09/02/22 10:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0288**		0.00396		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**201**		50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 16:37	1
Diesel Range Organics (Over C10-C28)	**201**		50.0		mg/Kg		08/29/22 14:17	08/30/22 16:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*08/29/22 14:17*	*08/30/22 16:37*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/29/22 14:17*	*08/30/22 16:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.6**		5.01		mg/Kg			08/31/22 02:45	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-11 0.5-1

Lab Sample ID: 880-18584-33
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:12	09/02/22 11:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:12	09/02/22 11:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:12	09/02/22 11:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/29/22 11:12	09/02/22 11:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/29/22 11:12	09/02/22 11:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/29/22 11:12	09/02/22 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/29/22 11:12*	*09/02/22 11:16*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/29/22 11:12*	*09/02/22 11:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/29/22 14:17	08/30/22 16:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/29/22 14:17	08/30/22 16:59	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/22 14:17	08/30/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*08/29/22 14:17*	*08/30/22 16:59*	*1*
o-Terphenyl	*113*		*70 - 130*	*08/29/22 14:17*	*08/30/22 16:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57.8**		5.02		mg/Kg			08/31/22 02:52	1

Client Sample ID: HA-11 1.5-2

Lab Sample ID: 880-18584-34
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 11:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 11:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/29/22 11:12	09/02/22 11:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 11:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/29/22 11:12	09/02/22 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/29/22 11:12*	*09/02/22 11:37*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/29/22 11:12*	*09/02/22 11:37*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-11 1.5-2

Lab Sample ID: 880-18584-34
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 17:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 17:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/30/22 17:21*	*1*
o-Terphenyl	*124*		*70 - 130*	*08/29/22 14:17*	*08/30/22 17:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.0**		5.02		mg/Kg			08/31/22 02:58	1

Client Sample ID: HA-11 2.5-3R

Lab Sample ID: 880-18584-35
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:12	09/02/22 11:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:12	09/02/22 11:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:12	09/02/22 11:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/29/22 11:12	09/02/22 11:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/29/22 11:12	09/02/22 11:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/29/22 11:12	09/02/22 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*08/29/22 11:12*	*09/02/22 11:57*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/29/22 11:12*	*09/02/22 11:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 17:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 17:42	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-11 2.5-3R

Lab Sample ID: 880-18584-35
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/30/22 17:42*	*1*
o-Terphenyl	*127*		*70 - 130*	*08/29/22 14:17*	*08/30/22 17:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.0**		5.05		mg/Kg			08/31/22 03:05	1

Client Sample ID: HA-12 0-0.5

Lab Sample ID: 880-18584-36
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		08/29/22 11:12	09/02/22 13:39	20
Toluene	**0.618**		0.0398		mg/Kg		08/29/22 11:12	09/02/22 13:39	20
Ethylbenzene	**1.14**		0.0398		mg/Kg		08/29/22 11:12	09/02/22 13:39	20
m-Xylene & p-Xylene	**4.90**		0.0797		mg/Kg		08/29/22 11:12	09/02/22 13:39	20
o-Xylene	**1.79**		0.0398		mg/Kg		08/29/22 11:12	09/02/22 13:39	20
Xylenes, Total	**6.69**		0.0797		mg/Kg		08/29/22 11:12	09/02/22 13:39	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*08/29/22 11:12*	*09/02/22 13:39*	*20*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/29/22 11:12*	*09/02/22 13:39*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**8.45**		0.0797		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2690**		49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**624**		49.9		mg/Kg		08/29/22 14:17	08/30/22 18:04	1
Diesel Range Organics (Over C10-C28)	**2070**		49.9		mg/Kg		08/29/22 14:17	08/30/22 18:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/30/22 18:04*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/29/22 14:17*	*08/30/22 18:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.2**		5.03		mg/Kg			08/31/22 03:12	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-12 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-37

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		08/29/22 11:12	09/02/22 14:00	20
Toluene	**0.162**		0.0398		mg/Kg		08/29/22 11:12	09/02/22 14:00	20
Ethylbenzene	**0.498**		0.0398		mg/Kg		08/29/22 11:12	09/02/22 14:00	20
m-Xylene & p-Xylene	**2.19**		0.0795		mg/Kg		08/29/22 11:12	09/02/22 14:00	20
o-Xylene	**0.766**		0.0398		mg/Kg		08/29/22 11:12	09/02/22 14:00	20
Xylenes, Total	**2.96**		0.0795		mg/Kg		08/29/22 11:12	09/02/22 14:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/29/22 11:12*	*09/02/22 14:00*	*20*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*08/29/22 11:12*	*09/02/22 14:00*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**3.62**		0.0795		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1010**		50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**104**		50.0		mg/Kg		08/29/22 14:17	08/30/22 18:26	1
Diesel Range Organics (Over C10-C28)	**910**		50.0		mg/Kg		08/29/22 14:17	08/30/22 18:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/29/22 14:17*	*08/30/22 18:26*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/29/22 14:17*	*08/30/22 18:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.7**	**F1**	4.98		mg/Kg			08/31/22 07:31	1

Client Sample ID: HA-12 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-38

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:12	09/02/22 12:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:12	09/02/22 12:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:12	09/02/22 12:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/29/22 11:12	09/02/22 12:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:12	09/02/22 12:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/29/22 11:12	09/02/22 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/29/22 11:12*	*09/02/22 12:18*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/29/22 11:12*	*09/02/22 12:18*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-12 1.5-2

Lab Sample ID: 880-18584-38
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**68.2**		49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 18:47	1
Diesel Range Organics (Over C10-C28)	**68.2**		49.9		mg/Kg		08/29/22 14:17	08/30/22 18:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*08/29/22 14:17*	*08/30/22 18:47*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/29/22 14:17*	*08/30/22 18:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.0**		4.96		mg/Kg			08/31/22 07:59	1

Client Sample ID: HA-12 2.5-3

Lab Sample ID: 880-18584-39
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:12	09/02/22 12:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:12	09/02/22 12:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:12	09/02/22 12:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/29/22 11:12	09/02/22 12:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/29/22 11:12	09/02/22 12:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/29/22 11:12	09/02/22 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*08/29/22 11:12*	*09/02/22 12:38*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/29/22 11:12*	*09/02/22 12:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**54.4**		49.8		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/29/22 14:17	08/30/22 19:09	1
Diesel Range Organics (Over C10-C28)	**54.4**		49.8		mg/Kg		08/29/22 14:17	08/30/22 19:09	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-12 2.5-3

Lab Sample ID: 880-18584-39
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/22 14:17	08/30/22 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/30/22 19:09*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/30/22 19:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.2**		5.04		mg/Kg			08/31/22 08:08	1

Client Sample ID: HA-13 0-0.5

Lab Sample ID: 880-18584-40
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 12:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 12:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 12:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/29/22 11:12	09/02/22 12:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 12:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/29/22 11:12	09/02/22 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/29/22 11:12*	*09/02/22 12:58*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/29/22 11:12*	*09/02/22 12:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**163**		49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 19:31	1
Diesel Range Organics (Over C10-C28)	**163**		49.9		mg/Kg		08/29/22 14:17	08/30/22 19:31	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 14:17	08/30/22 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*08/29/22 14:17*	*08/30/22 19:31*	*1*
o-Terphenyl	*121*		*70 - 130*	*08/29/22 14:17*	*08/30/22 19:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.31**		5.02		mg/Kg			08/31/22 08:17	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-13 0.5-1

Lab Sample ID: 880-18584-41
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 11:43	09/01/22 03:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 11:43	09/01/22 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/30/22 11:43*	*09/01/22 03:44*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/30/22 11:43*	*09/01/22 03:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		08/29/22 15:45	08/30/22 11:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 15:45	08/30/22 11:35	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 15:45	08/30/22 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*08/29/22 15:45*	*08/30/22 11:35*	*1*
o-Terphenyl	*111*		*70 - 130*	*08/29/22 15:45*	*08/30/22 11:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.7**		5.00		mg/Kg			08/31/22 08:27	1

Client Sample ID: HA-13 1.5-2

Lab Sample ID: 880-18584-42
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 04:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 04:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 04:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 11:43	09/01/22 04:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 04:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 11:43	09/01/22 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/30/22 11:43*	*09/01/22 04:09*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/30/22 11:43*	*09/01/22 04:09*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-13 1.5-2

Lab Sample ID: 880-18584-42
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 15:45	08/30/22 12:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 15:45	08/30/22 12:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 15:45	08/30/22 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*08/29/22 15:45*	*08/30/22 12:40*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/29/22 15:45*	*08/30/22 12:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.3**		5.00		mg/Kg			08/31/22 08:54	1

Client Sample ID: P1 0-0.5

Lab Sample ID: 880-18584-43
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 11:43	09/01/22 04:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 11:43	09/01/22 04:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 11:43	09/01/22 04:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/30/22 11:43	09/01/22 04:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 11:43	09/01/22 04:34	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/30/22 11:43	09/01/22 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/30/22 11:43*	*09/01/22 04:34*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/30/22 11:43*	*09/01/22 04:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 15:45	08/30/22 13:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 15:45	08/30/22 13:01	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: P1 0-0.5

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-43
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 15:45	08/30/22 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/29/22 15:45*	*08/30/22 13:01*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/29/22 15:45*	*08/30/22 13:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.0**		5.01		mg/Kg			08/31/22 09:03	1

Client Sample ID: P2 0-0.5

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-44
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 04:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 04:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 04:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 11:43	09/01/22 04:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 04:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 11:43	09/01/22 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/30/22 11:43*	*09/01/22 04:59*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/30/22 11:43*	*09/01/22 04:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**56.2**		49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 15:45	08/30/22 13:23	1
Diesel Range Organics (Over C10-C28)	**56.2**		49.9		mg/Kg		08/29/22 15:45	08/30/22 13:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 15:45	08/30/22 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*08/29/22 15:45*	*08/30/22 13:23*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/29/22 15:45*	*08/30/22 13:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.6**		4.97		mg/Kg			08/31/22 09:13	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: P3 0-0.5

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-45
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 11:43	09/01/22 05:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 11:43	09/01/22 05:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 11:43	09/01/22 05:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 11:43	09/01/22 05:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 11:43	09/01/22 05:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 11:43	09/01/22 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/30/22 11:43*	*09/01/22 05:25*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/30/22 11:43*	*09/01/22 05:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/22 15:45	08/30/22 13:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 15:45	08/30/22 13:44	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 15:45	08/30/22 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*08/29/22 15:45*	*08/30/22 13:44*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/29/22 15:45*	*08/30/22 13:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.15**		4.95		mg/Kg			08/31/22 09:22	1

Client Sample ID: P4 0-0.5

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-46
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 05:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 05:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 05:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 11:43	09/01/22 05:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 05:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 11:43	09/01/22 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/30/22 11:43*	*09/01/22 05:50*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/30/22 11:43*	*09/01/22 05:50*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: P4 0-0.5

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-46

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/22 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 15:45	08/30/22 14:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 15:45	08/30/22 14:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 15:45	08/30/22 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/29/22 15:45*	*08/30/22 14:06*	*1*
o-Terphenyl	*85*		*70 - 130*	*08/29/22 15:45*	*08/30/22 14:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.0**		4.96		mg/Kg			08/31/22 09:31	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-18581-A-21-E MS	Matrix Spike	101	104
880-18581-A-21-F MSD	Matrix Spike Duplicate	110	108
880-18584-1	HA-1 0-0.5	115	89
880-18584-1 MS	HA-1 0-0.5	134 S1+	102
880-18584-1 MSD	HA-1 0-0.5	120	109
880-18584-2	HA-1 0.5-1	130	85
880-18584-3	HA-1 1.5-2	118	93
880-18584-4	HA-2 0-0.5	117	94
880-18584-5	HA-2 0.5-1	118	97
880-18584-6	HA-2 1.5-2	121	88
880-18584-7	HA-3 0-0.5	117	87
880-18584-8	HA-3 0.5-1	113	89
880-18584-9	HA-3 1.5-2	113	92
880-18584-10	HA-4 0-0.5	123	86
880-18584-11	HA-4 0.5-1	115	94
880-18584-12	HA-4 1.5-2	118	90
880-18584-13	HA-5 0-0.5	116	102
880-18584-14	HA-5 0.5-1	118	82
880-18584-15	HA-5 1.5-2	110	92
880-18584-16	HA-6 0-0.5	122	85
880-18584-17	HA-6 0.5-1	115	90
880-18584-18	HA-6 1.5-2	121	82
880-18584-19	HA-7 0.5-1	154 S1+	98
880-18584-20	HA-7 1.5-2	124	102
880-18584-21	HA-7 2.5-3R	95	95
880-18584-21 MS	HA-7 2.5-3R	96	89
880-18584-21 MSD	HA-7 2.5-3R	104	91
880-18584-22	HA-8 0.5-1	20 S1-	15 S1-
880-18584-23	HA-8 1.5-2	122	104
880-18584-24	HA-8 2.5-3	115	85
880-18584-25	HA-8 3.5-4	104	80
880-18584-26	HA-9 0.5-1	100	95
880-18584-27	HA-9 1.5-2	95	98
880-18584-28	HA-9 2.5-3R	90	106
880-18584-29	HA-10 0.5-1	11 S1-	7 S1-
880-18584-30	HA-10 1.5-2	18 S1-	12 S1-
880-18584-31	HA-10 2.5-3	110	89
880-18584-32	HA-10 3.5-4	92	101
880-18584-33	HA-11 0.5-1	100	102
880-18584-34	HA-11 1.5-2	99	103
880-18584-35	HA-11 2.5-3R	95	106
880-18584-36	HA-12 0-0.5	141 S1+	92
880-18584-37	HA-12 0.5-1	126	84
880-18584-38	HA-12 1.5-2	98	106
880-18584-39	HA-12 2.5-3	94	103
880-18584-40	HA-13 0-0.5	93	109
880-18584-41	HA-13 0.5-1	115	99
880-18584-42	HA-13 1.5-2	109	98
880-18584-43	P1 0-0.5	115	99

Surrogate Summary

Client: Earth Systems Response and Restoration
Job ID: 880-18584-1
Project/Site: CTB 145
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
880-18584-44	P2 0-0.5	109	92
880-18584-45	P3 0-0.5	109	101
880-18584-46	P4 0-0.5	117	101
880-18778-A-1-C MS	Matrix Spike	94	107
880-18778-A-1-D MSD	Matrix Spike Duplicate	98	104
LCS 880-33193/1-A	Lab Control Sample	111	104
LCS 880-33195/1-A	Lab Control Sample	91	103
LCS 880-33353/1-A	Lab Control Sample	107	106
LCS 880-33569/1-A	Lab Control Sample	97	99
LCSD 880-33193/2-A	Lab Control Sample Dup	135 S1+	106
LCSD 880-33195/2-A	Lab Control Sample Dup	92	98
LCSD 880-33353/2-A	Lab Control Sample Dup	101	101
LCSD 880-33569/2-A	Lab Control Sample Dup	92	103
MB 880-33193/5-A	Method Blank	101	86
MB 880-33195/5-A	Method Blank	80	111
MB 880-33353/5-A	Method Blank	74	82
MB 880-33466/5-A	Method Blank	78	116
MB 880-33569/5-A	Method Blank	77	120

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-18584-1	HA-1 0-0.5	91	92
880-18584-1 MS	HA-1 0-0.5	111	95
880-18584-1 MSD	HA-1 0-0.5	94	80
880-18584-2	HA-1 0.5-1	105	109
880-18584-3	HA-1 1.5-2	95	100
880-18584-4	HA-2 0-0.5	96	101
880-18584-5	HA-2 0.5-1	109	116
880-18584-6	HA-2 1.5-2	112	118
880-18584-7	HA-3 0-0.5	105	104
880-18584-8	HA-3 0.5-1	102	104
880-18584-9	HA-3 1.5-2	108	112
880-18584-10	HA-4 0-0.5	132 S1+	132 S1+
880-18584-11	HA-4 0.5-1	121	124
880-18584-12	HA-4 1.5-2	104	108
880-18584-13	HA-5 0-0.5	109	101
880-18584-14	HA-5 0.5-1	104	108
880-18584-15	HA-5 1.5-2	111	116
880-18584-16	HA-6 0-0.5	105	106
880-18584-17	HA-6 0.5-1	110	116
880-18584-18	HA-6 1.5-2	107	114
880-18584-19	HA-7 0.5-1	109	95
880-18584-20	HA-7 1.5-2	98	102

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-18584-21	HA-7 2.5-3R	104	101										
880-18584-21 MS	HA-7 2.5-3R	116	90										
880-18584-21 MSD	HA-7 2.5-3R	121	95										
880-18584-22	HA-8 0.5-1	795 S1+	331 S1+										
880-18584-23	HA-8 1.5-2	119	86										
880-18584-24	HA-8 2.5-3	112	91										
880-18584-25	HA-8 3.5-4	115	87										
880-18584-26	HA-9 0.5-1	248 S1+	113										
880-18584-27	HA-9 1.5-2	129	121										
880-18584-28	HA-9 2.5-3R	132 S1+	121										
880-18584-29	HA-10 0.5-1	729 S1+	277 S1+										
880-18584-30	HA-10 1.5-2	179 S1+	76										
880-18584-31	HA-10 2.5-3	144 S1+	104										
880-18584-32	HA-10 3.5-4	129	119										
880-18584-33	HA-11 0.5-1	119	113										
880-18584-34	HA-11 1.5-2	137 S1+	124										
880-18584-35	HA-11 2.5-3R	139 S1+	127										
880-18584-36	HA-12 0-0.5	140 S1+	107										
880-18584-37	HA-12 0.5-1	114	96										
880-18584-38	HA-12 1.5-2	111	106										
880-18584-39	HA-12 2.5-3	144 S1+	133 S1+										
880-18584-40	HA-13 0-0.5	135 S1+	121										
880-18584-41	HA-13 0.5-1	119	111										
880-18584-41 MS	HA-13 0.5-1	93	79										
880-18584-41 MSD	HA-13 0.5-1	97	83										
880-18584-42	HA-13 1.5-2	122	115										
880-18584-43	P1 0-0.5	103	99										
880-18584-44	P2 0-0.5	101	96										
880-18584-45	P3 0-0.5	94	89										
880-18584-46	P4 0-0.5	93	85										
LCS 880-33239/2-A	Lab Control Sample	182 S1+	177 S1+										
LCS 880-33240/2-A	Lab Control Sample	176 S1+	149 S1+										
LCS 880-33268/2-A	Lab Control Sample	167 S1+	158 S1+										
LCSD 880-33239/3-A	Lab Control Sample Dup	158 S1+	156 S1+										
LCSD 880-33240/3-A	Lab Control Sample Dup	179 S1+	153 S1+										
LCSD 880-33268/3-A	Lab Control Sample Dup	163 S1+	155 S1+										
MB 880-33239/1-A	Method Blank	118	128										
MB 880-33240/1-A	Method Blank	109	110										
MB 880-33268/1-A	Method Blank	107	107										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33193/5-A
Matrix: Solid
Analysis Batch: 33586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 10:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 10:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 10:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/29/22 11:04	09/02/22 10:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:04	09/02/22 10:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/29/22 11:04	09/02/22 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/29/22 11:04*	*09/02/22 10:36*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*08/29/22 11:04*	*09/02/22 10:36*	*1*

Lab Sample ID: LCS 880-33193/1-A
Matrix: Solid
Analysis Batch: 33586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	0.100	0.09782		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09838		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2040		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1169		mg/Kg		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-33193/2-A
Matrix: Solid
Analysis Batch: 33586

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33193

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1017		mg/Kg		102	70 - 130	4	35
Toluene	0.100	0.09781		mg/Kg		98	70 - 130	0	35
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2348		mg/Kg		117	70 - 130	14	35
o-Xylene	0.100	0.1356	*+	mg/Kg		136	70 - 130	15	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-18584-1 MS
Matrix: Solid
Analysis Batch: 33586

Client Sample ID: HA-1 0-0.5
Prep Type: Total/NA
Prep Batch: 33193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.07550		mg/Kg		75	70 - 130
Toluene	<0.00201	U	0.101	0.07610		mg/Kg		76	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-18584-1 MS
Matrix: Solid
Analysis Batch: 33586

Client Sample ID: HA-1 0-0.5
Prep Type: Total/NA
Prep Batch: 33193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.101	0.08182		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1726		mg/Kg		86	70 - 130
o-Xylene	<0.00201	U *+	0.101	0.09913		mg/Kg		99	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-18584-1 MSD
Matrix: Solid
Analysis Batch: 33586

Client Sample ID: HA-1 0-0.5
Prep Type: Total/NA
Prep Batch: 33193

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.08649		mg/Kg		87	70 - 130	14	35
Toluene	<0.00201	U	0.0994	0.07964		mg/Kg		80	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.0994	0.08014		mg/Kg		81	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1643		mg/Kg		83	70 - 130	5	35
o-Xylene	<0.00201	U *+	0.0994	0.09426		mg/Kg		95	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: MB 880-33195/5-A
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 05:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 05:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 05:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/29/22 11:12	09/02/22 05:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/22 11:12	09/02/22 05:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/29/22 11:12	09/02/22 05:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*08/29/22 11:12*	*09/02/22 05:34*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/29/22 11:12*	*09/02/22 05:34*	*1*

Lab Sample ID: LCS 880-33195/1-A
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07858		mg/Kg		79	70 - 130
Toluene	0.100	0.08017		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.07912		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1457		mg/Kg		73	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-33195/1-A
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33195

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.07968		mg/Kg		80	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-33195/2-A
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33195

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09612		mg/Kg		96	70 - 130	20	35
Toluene			0.100	0.1008		mg/Kg		101	70 - 130	23	35
Ethylbenzene			0.100	0.09977		mg/Kg		100	70 - 130	23	35
m-Xylene & p-Xylene			0.200	0.1825		mg/Kg		91	70 - 130	22	35
o-Xylene			0.100	0.09632		mg/Kg		96	70 - 130	19	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-18584-21 MS
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: HA-7 2.5-3R
Prep Type: Total/NA
Prep Batch: 33195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.100	0.06925	F1	mg/Kg		69	70 - 130		
Toluene	<0.00201	U	0.100	0.08563		mg/Kg		84	70 - 130		
Ethylbenzene	<0.00201	U	0.100	0.08589		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene	0.0206		0.201	0.1964		mg/Kg		88	70 - 130		
o-Xylene	0.00928		0.100	0.09621		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-18584-21 MSD
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: HA-7 2.5-3R
Prep Type: Total/NA
Prep Batch: 33195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0990	0.06524	F1	mg/Kg		66	70 - 130	6	35
Toluene	<0.00201	U	0.0990	0.08448		mg/Kg		84	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0990	0.08677		mg/Kg		86	70 - 130	1	35
m-Xylene & p-Xylene	0.0206		0.198	0.2158		mg/Kg		99	70 - 130	9	35
o-Xylene	0.00928		0.0990	0.09983		mg/Kg		91	70 - 130	4	35

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-18584-21 MSD
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: HA-7 2.5-3R
Prep Type: Total/NA
Prep Batch: 33195

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: MB 880-33353/5-A
Matrix: Solid
Analysis Batch: 33469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 11:43	08/31/22 20:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	08/30/22 11:43	08/31/22 20:07	1
1,4-Difluorobenzene (Surr)	82		70 - 130	08/30/22 11:43	08/31/22 20:07	1

Lab Sample ID: LCS 880-33353/1-A
Matrix: Solid
Analysis Batch: 33469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33353

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1114		mg/Kg		111	70 - 130		
Toluene			0.100	0.1082		mg/Kg		108	70 - 130		
Ethylbenzene			0.100	0.1049		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2121		mg/Kg		106	70 - 130		
o-Xylene			0.100	0.1197		mg/Kg		120	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-33353/2-A
Matrix: Solid
Analysis Batch: 33469

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33353

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09634		mg/Kg		96	70 - 130	14	35
Toluene			0.100	0.09803		mg/Kg		98	70 - 130	10	35
Ethylbenzene			0.100	0.09504		mg/Kg		95	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.1926		mg/Kg		96	70 - 130	10	35
o-Xylene			0.100	0.1063		mg/Kg		106	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-33353/2-A
Matrix: Solid
Analysis Batch: 33469

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33353

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-18581-A-21-E MS
Matrix: Solid
Analysis Batch: 33469

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 33353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.1065		mg/Kg		105	70 - 130
Toluene	<0.00199	U	0.101	0.1017		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.09276		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1866		mg/Kg		92	70 - 130
o-Xylene	<0.00199	U	0.101	0.1040		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-18581-A-21-F MSD
Matrix: Solid
Analysis Batch: 33469

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 33353

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1162		mg/Kg		116	70 - 130	9	35
Toluene	<0.00199	U	0.100	0.1098		mg/Kg		110	70 - 130	8	35
Ethylbenzene	<0.00199	U	0.100	0.1011		mg/Kg		101	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2022		mg/Kg		101	70 - 130	8	35
o-Xylene	<0.00199	U	0.100	0.1134		mg/Kg		113	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-33466/5-A
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/31/22 14:40	09/01/22 18:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	08/31/22 14:40	09/01/22 18:00	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/31/22 14:40	09/01/22 18:00	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-33569/5-A
Matrix: Solid
Analysis Batch: 33649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/01/22 16:28	09/02/22 17:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/22 16:28	09/02/22 17:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/22 16:28	09/02/22 17:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/01/22 16:28	09/02/22 17:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/22 16:28	09/02/22 17:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/01/22 16:28	09/02/22 17:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*09/01/22 16:28*	*09/02/22 17:19*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*09/01/22 16:28*	*09/02/22 17:19*	*1*

Lab Sample ID: LCS 880-33569/1-A
Matrix: Solid
Analysis Batch: 33649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1094		mg/Kg		109	70 - 130
Toluene	0.100	0.1098		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1075		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1025		mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-33569/2-A
Matrix: Solid
Analysis Batch: 33649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33569

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1045		mg/Kg		105	70 - 130	5	35
Toluene	0.100	0.1046		mg/Kg		105	70 - 130	5	35
Ethylbenzene	0.100	0.1015		mg/Kg		102	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1869		mg/Kg		93	70 - 130	6	35
o-Xylene	0.100	0.09771		mg/Kg		98	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-18778-A-1-C MS
Matrix: Solid
Analysis Batch: 33649

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 33569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U F1	0.101	0.05729	F1	mg/Kg		57	70 - 130
Toluene	<0.00202	U F1	0.101	0.05652	F1	mg/Kg		56	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-18778-A-1-C MS
Matrix: Solid
Analysis Batch: 33649

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 33569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.101	0.07392		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1	0.201	0.1237	F1	mg/Kg		61	70 - 130
o-Xylene	<0.00202	U	0.101	0.08371		mg/Kg		83	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-18778-A-1-D MSD
Matrix: Solid
Analysis Batch: 33649

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 33569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.0990	0.04517	F1	mg/Kg		46	70 - 130	24	35
Toluene	<0.00202	U F1	0.0990	0.05278	F1	mg/Kg		53	70 - 130	7	35
Ethylbenzene	<0.00202	U	0.0990	0.07614		mg/Kg		77	70 - 130	3	35
m-Xylene & p-Xylene	<0.00403	U F1	0.198	0.1292	F1	mg/Kg		65	70 - 130	4	35
o-Xylene	<0.00202	U	0.0990	0.08610		mg/Kg		87	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-33239/1-A
Matrix: Solid
Analysis Batch: 33143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/29/22 20:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/29/22 20:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:14	08/29/22 20:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*08/29/22 14:14*	*08/29/22 20:42*	*1*
o-Terphenyl	*128*		*70 - 130*	*08/29/22 14:14*	*08/29/22 20:42*	*1*

Lab Sample ID: LCS 880-33239/2-A
Matrix: Solid
Analysis Batch: 33143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	822.2		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1109		mg/Kg		111	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-33239/2-A
Matrix: Solid
Analysis Batch: 33143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33239

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	182	S1+	70 - 130
o-Terphenyl	177	S1+	70 - 130

Lab Sample ID: LCSD 880-33239/3-A
Matrix: Solid
Analysis Batch: 33143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33239

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	844.7		mg/Kg		84	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	979.0		mg/Kg		98	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	158	S1+	70 - 130
o-Terphenyl	156	S1+	70 - 130

Lab Sample ID: 880-18584-1 MS
Matrix: Solid
Analysis Batch: 33143

Client Sample ID: HA-1 0-0.5
Prep Type: Total/NA
Prep Batch: 33239

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	726.9		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1097		mg/Kg		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-18584-1 MSD
Matrix: Solid
Analysis Batch: 33143

Client Sample ID: HA-1 0-0.5
Prep Type: Total/NA
Prep Batch: 33239

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	881.5		mg/Kg		86	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	942.5		mg/Kg		93	70 - 130	15	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	80		70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-33240/1-A
Matrix: Solid
Analysis Batch: 33305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 10:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 10:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 14:17	08/30/22 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*08/29/22 14:17*	*08/30/22 10:30*	*1*
o-Terphenyl	*110*		*70 - 130*	*08/29/22 14:17*	*08/30/22 10:30*	*1*

Lab Sample ID: LCS 880-33240/2-A
Matrix: Solid
Analysis Batch: 33305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	774.2		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1018		mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*176*	*S1+*	*70 - 130*
o-Terphenyl	*149*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-33240/3-A
Matrix: Solid
Analysis Batch: 33305

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33240

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	766.8		mg/Kg		77	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1032		mg/Kg		103	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*179*	*S1+*	*70 - 130*
o-Terphenyl	*153*	*S1+*	*70 - 130*

Lab Sample ID: 880-18584-21 MS
Matrix: Solid
Analysis Batch: 33305

Client Sample ID: HA-7 2.5-3R
Prep Type: Total/NA
Prep Batch: 33240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	833.6		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	69.7		999	1224		mg/Kg		116	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-18584-21 MS
Matrix: Solid
Analysis Batch: 33305

Client Sample ID: HA-7 2.5-3R
Prep Type: Total/NA
Prep Batch: 33240

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-18584-21 MSD
Matrix: Solid
Analysis Batch: 33305

Client Sample ID: HA-7 2.5-3R
Prep Type: Total/NA
Prep Batch: 33240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	928.1		mg/Kg		90	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	69.7		998	1269		mg/Kg		120	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: MB 880-33268/1-A
Matrix: Solid
Analysis Batch: 33307

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33268

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/22 15:45	08/30/22 10:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 15:45	08/30/22 10:30	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 15:45	08/30/22 10:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	08/29/22 15:45	08/30/22 10:30	1
o-Terphenyl	107		70 - 130	08/29/22 15:45	08/30/22 10:30	1

Lab Sample ID: LCS 880-33268/2-A
Matrix: Solid
Analysis Batch: 33307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33268

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	876.6		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	959.1		mg/Kg		96	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	167	S1+	70 - 130
o-Terphenyl	158	S1+	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-33268/3-A
Matrix: Solid
Analysis Batch: 33307

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33268

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	933.6		mg/Kg		93	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	938.5		mg/Kg		94	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*163*	*S1+*	*70 - 130*
o-Terphenyl	*155*	*S1+*	*70 - 130*

Lab Sample ID: 880-18584-41 MS
Matrix: Solid
Analysis Batch: 33307

Client Sample ID: HA-13 0.5-1
Prep Type: Total/NA
Prep Batch: 33268

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	612.3	F1	mg/Kg		59	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	876.6		mg/Kg		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Lab Sample ID: 880-18584-41 MSD
Matrix: Solid
Analysis Batch: 33307

Client Sample ID: HA-13 0.5-1
Prep Type: Total/NA
Prep Batch: 33268

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	998	631.4	F1	mg/Kg		61	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	928.2		mg/Kg		90	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33233/1-A
Matrix: Solid
Analysis Batch: 33299

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/29/22 21:08	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-33233/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33299

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.7		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-33233/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33299

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.7		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-18584-10 MS — **Client Sample ID: HA-4 0-0.5**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33299

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	10.2		251	251.4		mg/Kg		96	90 - 110		

Lab Sample ID: 880-18584-10 MSD — **Client Sample ID: HA-4 0-0.5**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33299

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.2		251	251.4		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-33236/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/30/22 23:47	1

Lab Sample ID: LCS 880-33236/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33349

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-33236/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33349

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	240.6		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-18584-17 MS — **Client Sample ID: HA-6 0.5-1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33349

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	11.2	F1 F2	249	282.7		mg/Kg		109	90 - 110		

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-18584-17 MSD — **Client Sample ID: HA-6 0.5-1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33349

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.2	F1 F2	616	698.2	F1 F2	mg/Kg		112	90 - 110	85	20

Lab Sample ID: 880-18584-27 MS — **Client Sample ID: HA-9 1.5-2**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33349

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0		252	292.6		mg/Kg		106	90 - 110

Lab Sample ID: 880-18584-27 MSD — **Client Sample ID: HA-9 1.5-2**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33349

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0		252	290.9		mg/Kg		106	90 - 110	1	20

Lab Sample ID: MB 880-33237/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/31/22 07:03	1

Lab Sample ID: LCS 880-33237/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.8		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-33237/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33366

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.4		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-18584-37 MS — **Client Sample ID: HA-12 0.5-1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	19.7	F1	249	299.2	F1	mg/Kg		112	90 - 110

Lab Sample ID: 880-18584-37 MSD — **Client Sample ID: HA-12 0.5-1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 33366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19.7	F1	249	293.7		mg/Kg		110	90 - 110	2	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

GC VOA

Prep Batch: 33193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-1	HA-1 0-0.5	Total/NA	Solid	5035	
880-18584-2	HA-1 0.5-1	Total/NA	Solid	5035	
880-18584-3	HA-1 1.5-2	Total/NA	Solid	5035	
880-18584-4	HA-2 0-0.5	Total/NA	Solid	5035	
880-18584-5	HA-2 0.5-1	Total/NA	Solid	5035	
880-18584-6	HA-2 1.5-2	Total/NA	Solid	5035	
880-18584-7	HA-3 0-0.5	Total/NA	Solid	5035	
880-18584-8	HA-3 0.5-1	Total/NA	Solid	5035	
880-18584-9	HA-3 1.5-2	Total/NA	Solid	5035	
880-18584-10	HA-4 0-0.5	Total/NA	Solid	5035	
880-18584-11	HA-4 0.5-1	Total/NA	Solid	5035	
880-18584-12	HA-4 1.5-2	Total/NA	Solid	5035	
880-18584-13	HA-5 0-0.5	Total/NA	Solid	5035	
880-18584-14	HA-5 0.5-1	Total/NA	Solid	5035	
880-18584-15	HA-5 1.5-2	Total/NA	Solid	5035	
880-18584-16	HA-6 0-0.5	Total/NA	Solid	5035	
880-18584-17	HA-6 0.5-1	Total/NA	Solid	5035	
880-18584-18	HA-6 1.5-2	Total/NA	Solid	5035	
880-18584-19	HA-7 0.5-1	Total/NA	Solid	5035	
880-18584-20	HA-7 1.5-2	Total/NA	Solid	5035	
MB 880-33193/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33193/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33193/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18584-1 MS	HA-1 0-0.5	Total/NA	Solid	5035	
880-18584-1 MSD	HA-1 0-0.5	Total/NA	Solid	5035	

Prep Batch: 33195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-21	HA-7 2.5-3R	Total/NA	Solid	5035	
880-18584-22	HA-8 0.5-1	Total/NA	Solid	5035	
880-18584-23	HA-8 1.5-2	Total/NA	Solid	5035	
880-18584-24	HA-8 2.5-3	Total/NA	Solid	5035	
880-18584-25	HA-8 3.5-4	Total/NA	Solid	5035	
880-18584-26	HA-9 0.5-1	Total/NA	Solid	5035	
880-18584-27	HA-9 1.5-2	Total/NA	Solid	5035	
880-18584-28	HA-9 2.5-3R	Total/NA	Solid	5035	
880-18584-29	HA-10 0.5-1	Total/NA	Solid	5035	
880-18584-30	HA-10 1.5-2	Total/NA	Solid	5035	
880-18584-31	HA-10 2.5-3	Total/NA	Solid	5035	
880-18584-32	HA-10 3.5-4	Total/NA	Solid	5035	
880-18584-33	HA-11 0.5-1	Total/NA	Solid	5035	
880-18584-34	HA-11 1.5-2	Total/NA	Solid	5035	
880-18584-35	HA-11 2.5-3R	Total/NA	Solid	5035	
880-18584-36	HA-12 0-0.5	Total/NA	Solid	5035	
880-18584-37	HA-12 0.5-1	Total/NA	Solid	5035	
880-18584-38	HA-12 1.5-2	Total/NA	Solid	5035	
880-18584-39	HA-12 2.5-3	Total/NA	Solid	5035	
880-18584-40	HA-13 0-0.5	Total/NA	Solid	5035	
MB 880-33195/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33195/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33195/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

GC VOA (Continued)

Prep Batch: 33195 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-21 MS	HA-7 2.5-3R	Total/NA	Solid	5035	
880-18584-21 MSD	HA-7 2.5-3R	Total/NA	Solid	5035	

Prep Batch: 33353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-41	HA-13 0.5-1	Total/NA	Solid	5035	
880-18584-42	HA-13 1.5-2	Total/NA	Solid	5035	
880-18584-43	P1 0-0.5	Total/NA	Solid	5035	
880-18584-44	P2 0-0.5	Total/NA	Solid	5035	
880-18584-45	P3 0-0.5	Total/NA	Solid	5035	
880-18584-46	P4 0-0.5	Total/NA	Solid	5035	
MB 880-33353/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33353/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33353/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18581-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
880-18581-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 33466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33466/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 33469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-41	HA-13 0.5-1	Total/NA	Solid	8021B	33353
880-18584-42	HA-13 1.5-2	Total/NA	Solid	8021B	33353
880-18584-43	P1 0-0.5	Total/NA	Solid	8021B	33353
880-18584-44	P2 0-0.5	Total/NA	Solid	8021B	33353
880-18584-45	P3 0-0.5	Total/NA	Solid	8021B	33353
880-18584-46	P4 0-0.5	Total/NA	Solid	8021B	33353
MB 880-33353/5-A	Method Blank	Total/NA	Solid	8021B	33353
LCS 880-33353/1-A	Lab Control Sample	Total/NA	Solid	8021B	33353
LCSD 880-33353/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33353
880-18581-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	33353
880-18581-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	33353

Analysis Batch: 33549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-1	HA-1 0-0.5	Total/NA	Solid	Total BTEX	
880-18584-2	HA-1 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-3	HA-1 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-4	HA-2 0-0.5	Total/NA	Solid	Total BTEX	
880-18584-5	HA-2 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-6	HA-2 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-7	HA-3 0-0.5	Total/NA	Solid	Total BTEX	
880-18584-8	HA-3 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-9	HA-3 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-10	HA-4 0-0.5	Total/NA	Solid	Total BTEX	
880-18584-11	HA-4 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-12	HA-4 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-13	HA-5 0-0.5	Total/NA	Solid	Total BTEX	
880-18584-14	HA-5 0.5-1	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

GC VOA (Continued)

Analysis Batch: 33549 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-15	HA-5 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-16	HA-6 0-0.5	Total/NA	Solid	Total BTEX	
880-18584-17	HA-6 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-18	HA-6 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-19	HA-7 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-20	HA-7 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-21	HA-7 2.5-3R	Total/NA	Solid	Total BTEX	
880-18584-22	HA-8 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-23	HA-8 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-24	HA-8 2.5-3	Total/NA	Solid	Total BTEX	
880-18584-25	HA-8 3.5-4	Total/NA	Solid	Total BTEX	
880-18584-26	HA-9 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-27	HA-9 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-28	HA-9 2.5-3R	Total/NA	Solid	Total BTEX	
880-18584-29	HA-10 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-30	HA-10 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-31	HA-10 2.5-3	Total/NA	Solid	Total BTEX	
880-18584-32	HA-10 3.5-4	Total/NA	Solid	Total BTEX	
880-18584-33	HA-11 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-34	HA-11 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-35	HA-11 2.5-3R	Total/NA	Solid	Total BTEX	
880-18584-36	HA-12 0-0.5	Total/NA	Solid	Total BTEX	
880-18584-37	HA-12 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-38	HA-12 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-39	HA-12 2.5-3	Total/NA	Solid	Total BTEX	
880-18584-40	HA-13 0-0.5	Total/NA	Solid	Total BTEX	
880-18584-41	HA-13 0.5-1	Total/NA	Solid	Total BTEX	
880-18584-42	HA-13 1.5-2	Total/NA	Solid	Total BTEX	
880-18584-43	P1 0-0.5	Total/NA	Solid	Total BTEX	
880-18584-44	P2 0-0.5	Total/NA	Solid	Total BTEX	
880-18584-45	P3 0-0.5	Total/NA	Solid	Total BTEX	
880-18584-46	P4 0-0.5	Total/NA	Solid	Total BTEX	

Analysis Batch: 33557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-21	HA-7 2.5-3R	Total/NA	Solid	8021B	33195
880-18584-22	HA-8 0.5-1	Total/NA	Solid	8021B	33195
880-18584-23	HA-8 1.5-2	Total/NA	Solid	8021B	33195
880-18584-24	HA-8 2.5-3	Total/NA	Solid	8021B	33195
880-18584-25	HA-8 3.5-4	Total/NA	Solid	8021B	33195
880-18584-26	HA-9 0.5-1	Total/NA	Solid	8021B	33195
880-18584-27	HA-9 1.5-2	Total/NA	Solid	8021B	33195
880-18584-28	HA-9 2.5-3R	Total/NA	Solid	8021B	33195
880-18584-29	HA-10 0.5-1	Total/NA	Solid	8021B	33195
880-18584-30	HA-10 1.5-2	Total/NA	Solid	8021B	33195
880-18584-31	HA-10 2.5-3	Total/NA	Solid	8021B	33195
880-18584-32	HA-10 3.5-4	Total/NA	Solid	8021B	33195
880-18584-33	HA-11 0.5-1	Total/NA	Solid	8021B	33195
880-18584-34	HA-11 1.5-2	Total/NA	Solid	8021B	33195
880-18584-35	HA-11 2.5-3R	Total/NA	Solid	8021B	33195
880-18584-36	HA-12 0-0.5	Total/NA	Solid	8021B	33195

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

GC VOA (Continued)

Analysis Batch: 33557 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-37	HA-12 0.5-1	Total/NA	Solid	8021B	33195
880-18584-38	HA-12 1.5-2	Total/NA	Solid	8021B	33195
880-18584-39	HA-12 2.5-3	Total/NA	Solid	8021B	33195
880-18584-40	HA-13 0-0.5	Total/NA	Solid	8021B	33195
MB 880-33195/5-A	Method Blank	Total/NA	Solid	8021B	33195
MB 880-33466/5-A	Method Blank	Total/NA	Solid	8021B	33466
LCS 880-33195/1-A	Lab Control Sample	Total/NA	Solid	8021B	33195
LCSD 880-33195/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33195
880-18584-21 MS	HA-7 2.5-3R	Total/NA	Solid	8021B	33195
880-18584-21 MSD	HA-7 2.5-3R	Total/NA	Solid	8021B	33195

Prep Batch: 33569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33569/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33569/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33569/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18778-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-18778-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 33586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-1	HA-1 0-0.5	Total/NA	Solid	8021B	33193
880-18584-2	HA-1 0.5-1	Total/NA	Solid	8021B	33193
880-18584-3	HA-1 1.5-2	Total/NA	Solid	8021B	33193
880-18584-4	HA-2 0-0.5	Total/NA	Solid	8021B	33193
880-18584-5	HA-2 0.5-1	Total/NA	Solid	8021B	33193
880-18584-6	HA-2 1.5-2	Total/NA	Solid	8021B	33193
880-18584-7	HA-3 0-0.5	Total/NA	Solid	8021B	33193
880-18584-8	HA-3 0.5-1	Total/NA	Solid	8021B	33193
880-18584-9	HA-3 1.5-2	Total/NA	Solid	8021B	33193
880-18584-10	HA-4 0-0.5	Total/NA	Solid	8021B	33193
880-18584-11	HA-4 0.5-1	Total/NA	Solid	8021B	33193
880-18584-12	HA-4 1.5-2	Total/NA	Solid	8021B	33193
880-18584-13	HA-5 0-0.5	Total/NA	Solid	8021B	33193
880-18584-14	HA-5 0.5-1	Total/NA	Solid	8021B	33193
880-18584-15	HA-5 1.5-2	Total/NA	Solid	8021B	33193
880-18584-16	HA-6 0-0.5	Total/NA	Solid	8021B	33193
880-18584-17	HA-6 0.5-1	Total/NA	Solid	8021B	33193
880-18584-18	HA-6 1.5-2	Total/NA	Solid	8021B	33193
880-18584-19	HA-7 0.5-1	Total/NA	Solid	8021B	33193
880-18584-20	HA-7 1.5-2	Total/NA	Solid	8021B	33193
MB 880-33193/5-A	Method Blank	Total/NA	Solid	8021B	33193
LCS 880-33193/1-A	Lab Control Sample	Total/NA	Solid	8021B	33193
LCSD 880-33193/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33193
880-18584-1 MS	HA-1 0-0.5	Total/NA	Solid	8021B	33193
880-18584-1 MSD	HA-1 0-0.5	Total/NA	Solid	8021B	33193

Analysis Batch: 33649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33569/5-A	Method Blank	Total/NA	Solid	8021B	33569
LCS 880-33569/1-A	Lab Control Sample	Total/NA	Solid	8021B	33569

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

GC VOA (Continued)

Analysis Batch: 33649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-33569/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33569
880-18778-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	33569
880-18778-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	33569

GC Semi VOA

Analysis Batch: 33143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-1	HA-1 0-0.5	Total/NA	Solid	8015B NM	33239
880-18584-2	HA-1 0.5-1	Total/NA	Solid	8015B NM	33239
880-18584-3	HA-1 1.5-2	Total/NA	Solid	8015B NM	33239
880-18584-4	HA-2 0-0.5	Total/NA	Solid	8015B NM	33239
880-18584-5	HA-2 0.5-1	Total/NA	Solid	8015B NM	33239
880-18584-6	HA-2 1.5-2	Total/NA	Solid	8015B NM	33239
880-18584-7	HA-3 0-0.5	Total/NA	Solid	8015B NM	33239
880-18584-8	HA-3 0.5-1	Total/NA	Solid	8015B NM	33239
880-18584-9	HA-3 1.5-2	Total/NA	Solid	8015B NM	33239
880-18584-10	HA-4 0-0.5	Total/NA	Solid	8015B NM	33239
880-18584-11	HA-4 0.5-1	Total/NA	Solid	8015B NM	33239
880-18584-12	HA-4 1.5-2	Total/NA	Solid	8015B NM	33239
880-18584-13	HA-5 0-0.5	Total/NA	Solid	8015B NM	33239
880-18584-14	HA-5 0.5-1	Total/NA	Solid	8015B NM	33239
880-18584-15	HA-5 1.5-2	Total/NA	Solid	8015B NM	33239
880-18584-16	HA-6 0-0.5	Total/NA	Solid	8015B NM	33239
880-18584-17	HA-6 0.5-1	Total/NA	Solid	8015B NM	33239
880-18584-18	HA-6 1.5-2	Total/NA	Solid	8015B NM	33239
880-18584-19	HA-7 0.5-1	Total/NA	Solid	8015B NM	33239
880-18584-20	HA-7 1.5-2	Total/NA	Solid	8015B NM	33239
MB 880-33239/1-A	Method Blank	Total/NA	Solid	8015B NM	33239
LCS 880-33239/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33239
LCSD 880-33239/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33239
880-18584-1 MS	HA-1 0-0.5	Total/NA	Solid	8015B NM	33239
880-18584-1 MSD	HA-1 0-0.5	Total/NA	Solid	8015B NM	33239

Prep Batch: 33239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-1	HA-1 0-0.5	Total/NA	Solid	8015NM Prep	
880-18584-2	HA-1 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-3	HA-1 1.5-2	Total/NA	Solid	8015NM Prep	
880-18584-4	HA-2 0-0.5	Total/NA	Solid	8015NM Prep	
880-18584-5	HA-2 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-6	HA-2 1.5-2	Total/NA	Solid	8015NM Prep	
880-18584-7	HA-3 0-0.5	Total/NA	Solid	8015NM Prep	
880-18584-8	HA-3 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-9	HA-3 1.5-2	Total/NA	Solid	8015NM Prep	
880-18584-10	HA-4 0-0.5	Total/NA	Solid	8015NM Prep	
880-18584-11	HA-4 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-12	HA-4 1.5-2	Total/NA	Solid	8015NM Prep	
880-18584-13	HA-5 0-0.5	Total/NA	Solid	8015NM Prep	
880-18584-14	HA-5 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-15	HA-5 1.5-2	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

GC Semi VOA (Continued)

Prep Batch: 33239 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-16	HA-6 0-0.5	Total/NA	Solid	8015NM Prep	
880-18584-17	HA-6 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-18	HA-6 1.5-2	Total/NA	Solid	8015NM Prep	
880-18584-19	HA-7 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-20	HA-7 1.5-2	Total/NA	Solid	8015NM Prep	
MB 880-33239/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33239/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33239/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18584-1 MS	HA-1 0-0.5	Total/NA	Solid	8015NM Prep	
880-18584-1 MSD	HA-1 0-0.5	Total/NA	Solid	8015NM Prep	

Prep Batch: 33240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-21	HA-7 2.5-3R	Total/NA	Solid	8015NM Prep	
880-18584-22	HA-8 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-23	HA-8 1.5-2	Total/NA	Solid	8015NM Prep	
880-18584-24	HA-8 2.5-3	Total/NA	Solid	8015NM Prep	
880-18584-25	HA-8 3.5-4	Total/NA	Solid	8015NM Prep	
880-18584-26	HA-9 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-27	HA-9 1.5-2	Total/NA	Solid	8015NM Prep	
880-18584-28	HA-9 2.5-3R	Total/NA	Solid	8015NM Prep	
880-18584-29	HA-10 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-30	HA-10 1.5-2	Total/NA	Solid	8015NM Prep	
880-18584-31	HA-10 2.5-3	Total/NA	Solid	8015NM Prep	
880-18584-32	HA-10 3.5-4	Total/NA	Solid	8015NM Prep	
880-18584-33	HA-11 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-34	HA-11 1.5-2	Total/NA	Solid	8015NM Prep	
880-18584-35	HA-11 2.5-3R	Total/NA	Solid	8015NM Prep	
880-18584-36	HA-12 0-0.5	Total/NA	Solid	8015NM Prep	
880-18584-37	HA-12 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-38	HA-12 1.5-2	Total/NA	Solid	8015NM Prep	
880-18584-39	HA-12 2.5-3	Total/NA	Solid	8015NM Prep	
880-18584-40	HA-13 0-0.5	Total/NA	Solid	8015NM Prep	
MB 880-33240/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33240/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33240/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18584-21 MS	HA-7 2.5-3R	Total/NA	Solid	8015NM Prep	
880-18584-21 MSD	HA-7 2.5-3R	Total/NA	Solid	8015NM Prep	

Prep Batch: 33268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-41	HA-13 0.5-1	Total/NA	Solid	8015NM Prep	
880-18584-42	HA-13 1.5-2	Total/NA	Solid	8015NM Prep	
880-18584-43	P1 0-0.5	Total/NA	Solid	8015NM Prep	
880-18584-44	P2 0-0.5	Total/NA	Solid	8015NM Prep	
880-18584-45	P3 0-0.5	Total/NA	Solid	8015NM Prep	
880-18584-46	P4 0-0.5	Total/NA	Solid	8015NM Prep	
MB 880-33268/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33268/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18584-41 MS	HA-13 0.5-1	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

GC Semi VOA (Continued)

Prep Batch: 33268 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-41 MSD	HA-13 0.5-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-21	HA-7 2.5-3R	Total/NA	Solid	8015B NM	33240
880-18584-22	HA-8 0.5-1	Total/NA	Solid	8015B NM	33240
880-18584-23	HA-8 1.5-2	Total/NA	Solid	8015B NM	33240
880-18584-24	HA-8 2.5-3	Total/NA	Solid	8015B NM	33240
880-18584-25	HA-8 3.5-4	Total/NA	Solid	8015B NM	33240
880-18584-26	HA-9 0.5-1	Total/NA	Solid	8015B NM	33240
880-18584-27	HA-9 1.5-2	Total/NA	Solid	8015B NM	33240
880-18584-28	HA-9 2.5-3R	Total/NA	Solid	8015B NM	33240
880-18584-29	HA-10 0.5-1	Total/NA	Solid	8015B NM	33240
880-18584-30	HA-10 1.5-2	Total/NA	Solid	8015B NM	33240
880-18584-31	HA-10 2.5-3	Total/NA	Solid	8015B NM	33240
880-18584-32	HA-10 3.5-4	Total/NA	Solid	8015B NM	33240
880-18584-33	HA-11 0.5-1	Total/NA	Solid	8015B NM	33240
880-18584-34	HA-11 1.5-2	Total/NA	Solid	8015B NM	33240
880-18584-35	HA-11 2.5-3R	Total/NA	Solid	8015B NM	33240
880-18584-36	HA-12 0-0.5	Total/NA	Solid	8015B NM	33240
880-18584-37	HA-12 0.5-1	Total/NA	Solid	8015B NM	33240
880-18584-38	HA-12 1.5-2	Total/NA	Solid	8015B NM	33240
880-18584-39	HA-12 2.5-3	Total/NA	Solid	8015B NM	33240
880-18584-40	HA-13 0-0.5	Total/NA	Solid	8015B NM	33240
MB 880-33240/1-A	Method Blank	Total/NA	Solid	8015B NM	33240
LCS 880-33240/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33240
LCSD 880-33240/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33240
880-18584-21 MS	HA-7 2.5-3R	Total/NA	Solid	8015B NM	33240
880-18584-21 MSD	HA-7 2.5-3R	Total/NA	Solid	8015B NM	33240

Analysis Batch: 33307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-41	HA-13 0.5-1	Total/NA	Solid	8015B NM	33268
880-18584-42	HA-13 1.5-2	Total/NA	Solid	8015B NM	33268
880-18584-43	P1 0-0.5	Total/NA	Solid	8015B NM	33268
880-18584-44	P2 0-0.5	Total/NA	Solid	8015B NM	33268
880-18584-45	P3 0-0.5	Total/NA	Solid	8015B NM	33268
880-18584-46	P4 0-0.5	Total/NA	Solid	8015B NM	33268
MB 880-33268/1-A	Method Blank	Total/NA	Solid	8015B NM	33268
LCS 880-33268/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33268
LCSD 880-33268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33268
880-18584-41 MS	HA-13 0.5-1	Total/NA	Solid	8015B NM	33268
880-18584-41 MSD	HA-13 0.5-1	Total/NA	Solid	8015B NM	33268

Analysis Batch: 33318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-1	HA-1 0-0.5	Total/NA	Solid	8015 NM	
880-18584-2	HA-1 0.5-1	Total/NA	Solid	8015 NM	
880-18584-3	HA-1 1.5-2	Total/NA	Solid	8015 NM	
880-18584-4	HA-2 0-0.5	Total/NA	Solid	8015 NM	
880-18584-5	HA-2 0.5-1	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

GC Semi VOA (Continued)

Analysis Batch: 33318 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-6	HA-2 1.5-2	Total/NA	Solid	8015 NM	
880-18584-7	HA-3 0-0.5	Total/NA	Solid	8015 NM	
880-18584-8	HA-3 0.5-1	Total/NA	Solid	8015 NM	
880-18584-9	HA-3 1.5-2	Total/NA	Solid	8015 NM	
880-18584-10	HA-4 0-0.5	Total/NA	Solid	8015 NM	
880-18584-11	HA-4 0.5-1	Total/NA	Solid	8015 NM	
880-18584-12	HA-4 1.5-2	Total/NA	Solid	8015 NM	
880-18584-13	HA-5 0-0.5	Total/NA	Solid	8015 NM	
880-18584-14	HA-5 0.5-1	Total/NA	Solid	8015 NM	
880-18584-15	HA-5 1.5-2	Total/NA	Solid	8015 NM	
880-18584-16	HA-6 0-0.5	Total/NA	Solid	8015 NM	
880-18584-17	HA-6 0.5-1	Total/NA	Solid	8015 NM	
880-18584-18	HA-6 1.5-2	Total/NA	Solid	8015 NM	
880-18584-19	HA-7 0.5-1	Total/NA	Solid	8015 NM	
880-18584-20	HA-7 1.5-2	Total/NA	Solid	8015 NM	
880-18584-21	HA-7 2.5-3R	Total/NA	Solid	8015 NM	
880-18584-22	HA-8 0.5-1	Total/NA	Solid	8015 NM	
880-18584-23	HA-8 1.5-2	Total/NA	Solid	8015 NM	
880-18584-24	HA-8 2.5-3	Total/NA	Solid	8015 NM	
880-18584-25	HA-8 3.5-4	Total/NA	Solid	8015 NM	
880-18584-26	HA-9 0.5-1	Total/NA	Solid	8015 NM	
880-18584-27	HA-9 1.5-2	Total/NA	Solid	8015 NM	
880-18584-28	HA-9 2.5-3R	Total/NA	Solid	8015 NM	
880-18584-29	HA-10 0.5-1	Total/NA	Solid	8015 NM	
880-18584-30	HA-10 1.5-2	Total/NA	Solid	8015 NM	
880-18584-31	HA-10 2.5-3	Total/NA	Solid	8015 NM	
880-18584-32	HA-10 3.5-4	Total/NA	Solid	8015 NM	
880-18584-33	HA-11 0.5-1	Total/NA	Solid	8015 NM	
880-18584-34	HA-11 1.5-2	Total/NA	Solid	8015 NM	
880-18584-35	HA-11 2.5-3R	Total/NA	Solid	8015 NM	
880-18584-36	HA-12 0-0.5	Total/NA	Solid	8015 NM	
880-18584-37	HA-12 0.5-1	Total/NA	Solid	8015 NM	
880-18584-38	HA-12 1.5-2	Total/NA	Solid	8015 NM	
880-18584-39	HA-12 2.5-3	Total/NA	Solid	8015 NM	
880-18584-40	HA-13 0-0.5	Total/NA	Solid	8015 NM	
880-18584-41	HA-13 0.5-1	Total/NA	Solid	8015 NM	
880-18584-42	HA-13 1.5-2	Total/NA	Solid	8015 NM	
880-18584-43	P1 0-0.5	Total/NA	Solid	8015 NM	
880-18584-44	P2 0-0.5	Total/NA	Solid	8015 NM	
880-18584-45	P3 0-0.5	Total/NA	Solid	8015 NM	
880-18584-46	P4 0-0.5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 33233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-1	HA-1 0-0.5	Soluble	Solid	DI Leach	
880-18584-2	HA-1 0.5-1	Soluble	Solid	DI Leach	
880-18584-3	HA-1 1.5-2	Soluble	Solid	DI Leach	
880-18584-4	HA-2 0-0.5	Soluble	Solid	DI Leach	
880-18584-5	HA-2 0.5-1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

HPLC/IC (Continued)

Leach Batch: 33233 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-6	HA-2 1.5-2	Soluble	Solid	DI Leach	
880-18584-7	HA-3 0-0.5	Soluble	Solid	DI Leach	
880-18584-8	HA-3 0.5-1	Soluble	Solid	DI Leach	
880-18584-9	HA-3 1.5-2	Soluble	Solid	DI Leach	
880-18584-10	HA-4 0-0.5	Soluble	Solid	DI Leach	
880-18584-11	HA-4 0.5-1	Soluble	Solid	DI Leach	
880-18584-12	HA-4 1.5-2	Soluble	Solid	DI Leach	
880-18584-13	HA-5 0-0.5	Soluble	Solid	DI Leach	
880-18584-14	HA-5 0.5-1	Soluble	Solid	DI Leach	
880-18584-15	HA-5 1.5-2	Soluble	Solid	DI Leach	
880-18584-16	HA-6 0-0.5	Soluble	Solid	DI Leach	
MB 880-33233/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33233/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33233/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18584-10 MS	HA-4 0-0.5	Soluble	Solid	DI Leach	
880-18584-10 MSD	HA-4 0-0.5	Soluble	Solid	DI Leach	

Leach Batch: 33236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-17	HA-6 0.5-1	Soluble	Solid	DI Leach	
880-18584-18	HA-6 1.5-2	Soluble	Solid	DI Leach	
880-18584-19	HA-7 0.5-1	Soluble	Solid	DI Leach	
880-18584-20	HA-7 1.5-2	Soluble	Solid	DI Leach	
880-18584-21	HA-7 2.5-3R	Soluble	Solid	DI Leach	
880-18584-22	HA-8 0.5-1	Soluble	Solid	DI Leach	
880-18584-23	HA-8 1.5-2	Soluble	Solid	DI Leach	
880-18584-24	HA-8 2.5-3	Soluble	Solid	DI Leach	
880-18584-25	HA-8 3.5-4	Soluble	Solid	DI Leach	
880-18584-26	HA-9 0.5-1	Soluble	Solid	DI Leach	
880-18584-27	HA-9 1.5-2	Soluble	Solid	DI Leach	
880-18584-28	HA-9 2.5-3R	Soluble	Solid	DI Leach	
880-18584-29	HA-10 0.5-1	Soluble	Solid	DI Leach	
880-18584-30	HA-10 1.5-2	Soluble	Solid	DI Leach	
880-18584-31	HA-10 2.5-3	Soluble	Solid	DI Leach	
880-18584-32	HA-10 3.5-4	Soluble	Solid	DI Leach	
880-18584-33	HA-11 0.5-1	Soluble	Solid	DI Leach	
880-18584-34	HA-11 1.5-2	Soluble	Solid	DI Leach	
880-18584-35	HA-11 2.5-3R	Soluble	Solid	DI Leach	
880-18584-36	HA-12 0-0.5	Soluble	Solid	DI Leach	
MB 880-33236/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33236/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33236/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18584-17 MS	HA-6 0.5-1	Soluble	Solid	DI Leach	
880-18584-17 MSD	HA-6 0.5-1	Soluble	Solid	DI Leach	
880-18584-27 MS	HA-9 1.5-2	Soluble	Solid	DI Leach	
880-18584-27 MSD	HA-9 1.5-2	Soluble	Solid	DI Leach	

Leach Batch: 33237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-37	HA-12 0.5-1	Soluble	Solid	DI Leach	
880-18584-38	HA-12 1.5-2	Soluble	Solid	DI Leach	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

HPLC/IC (Continued)

Leach Batch: 33237 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-39	HA-12 2.5-3	Soluble	Solid	DI Leach	
880-18584-40	HA-13 0-0.5	Soluble	Solid	DI Leach	
880-18584-41	HA-13 0.5-1	Soluble	Solid	DI Leach	
880-18584-42	HA-13 1.5-2	Soluble	Solid	DI Leach	
880-18584-43	P1 0-0.5	Soluble	Solid	DI Leach	
880-18584-44	P2 0-0.5	Soluble	Solid	DI Leach	
880-18584-45	P3 0-0.5	Soluble	Solid	DI Leach	
880-18584-46	P4 0-0.5	Soluble	Solid	DI Leach	
MB 880-33237/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33237/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33237/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18584-37 MS	HA-12 0.5-1	Soluble	Solid	DI Leach	
880-18584-37 MSD	HA-12 0.5-1	Soluble	Solid	DI Leach	

Analysis Batch: 33299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-1	HA-1 0-0.5	Soluble	Solid	300.0	33233
880-18584-2	HA-1 0.5-1	Soluble	Solid	300.0	33233
880-18584-3	HA-1 1.5-2	Soluble	Solid	300.0	33233
880-18584-4	HA-2 0-0.5	Soluble	Solid	300.0	33233
880-18584-5	HA-2 0.5-1	Soluble	Solid	300.0	33233
880-18584-6	HA-2 1.5-2	Soluble	Solid	300.0	33233
880-18584-7	HA-3 0-0.5	Soluble	Solid	300.0	33233
880-18584-8	HA-3 0.5-1	Soluble	Solid	300.0	33233
880-18584-9	HA-3 1.5-2	Soluble	Solid	300.0	33233
880-18584-10	HA-4 0-0.5	Soluble	Solid	300.0	33233
880-18584-11	HA-4 0.5-1	Soluble	Solid	300.0	33233
880-18584-12	HA-4 1.5-2	Soluble	Solid	300.0	33233
880-18584-13	HA-5 0-0.5	Soluble	Solid	300.0	33233
880-18584-14	HA-5 0.5-1	Soluble	Solid	300.0	33233
880-18584-15	HA-5 1.5-2	Soluble	Solid	300.0	33233
880-18584-16	HA-6 0-0.5	Soluble	Solid	300.0	33233
MB 880-33233/1-A	Method Blank	Soluble	Solid	300.0	33233
LCS 880-33233/2-A	Lab Control Sample	Soluble	Solid	300.0	33233
LCSD 880-33233/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33233
880-18584-10 MS	HA-4 0-0.5	Soluble	Solid	300.0	33233
880-18584-10 MSD	HA-4 0-0.5	Soluble	Solid	300.0	33233

Analysis Batch: 33349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-17	HA-6 0.5-1	Soluble	Solid	300.0	33236
880-18584-18	HA-6 1.5-2	Soluble	Solid	300.0	33236
880-18584-19	HA-7 0.5-1	Soluble	Solid	300.0	33236
880-18584-20	HA-7 1.5-2	Soluble	Solid	300.0	33236
880-18584-21	HA-7 2.5-3R	Soluble	Solid	300.0	33236
880-18584-22	HA-8 0.5-1	Soluble	Solid	300.0	33236
880-18584-23	HA-8 1.5-2	Soluble	Solid	300.0	33236
880-18584-24	HA-8 2.5-3	Soluble	Solid	300.0	33236
880-18584-25	HA-8 3.5-4	Soluble	Solid	300.0	33236
880-18584-26	HA-9 0.5-1	Soluble	Solid	300.0	33236
880-18584-27	HA-9 1.5-2	Soluble	Solid	300.0	33236

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

HPLC/IC (Continued)

Analysis Batch: 33349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-28	HA-9 2.5-3R	Soluble	Solid	300.0	33236
880-18584-29	HA-10 0.5-1	Soluble	Solid	300.0	33236
880-18584-30	HA-10 1.5-2	Soluble	Solid	300.0	33236
880-18584-31	HA-10 2.5-3	Soluble	Solid	300.0	33236
880-18584-32	HA-10 3.5-4	Soluble	Solid	300.0	33236
880-18584-33	HA-11 0.5-1	Soluble	Solid	300.0	33236
880-18584-34	HA-11 1.5-2	Soluble	Solid	300.0	33236
880-18584-35	HA-11 2.5-3R	Soluble	Solid	300.0	33236
880-18584-36	HA-12 0-0.5	Soluble	Solid	300.0	33236
MB 880-33236/1-A	Method Blank	Soluble	Solid	300.0	33236
LCS 880-33236/2-A	Lab Control Sample	Soluble	Solid	300.0	33236
LCSD 880-33236/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33236
880-18584-17 MS	HA-6 0.5-1	Soluble	Solid	300.0	33236
880-18584-17 MSD	HA-6 0.5-1	Soluble	Solid	300.0	33236
880-18584-27 MS	HA-9 1.5-2	Soluble	Solid	300.0	33236
880-18584-27 MSD	HA-9 1.5-2	Soluble	Solid	300.0	33236

Analysis Batch: 33366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18584-37	HA-12 0.5-1	Soluble	Solid	300.0	33237
880-18584-38	HA-12 1.5-2	Soluble	Solid	300.0	33237
880-18584-39	HA-12 2.5-3	Soluble	Solid	300.0	33237
880-18584-40	HA-13 0-0.5	Soluble	Solid	300.0	33237
880-18584-41	HA-13 0.5-1	Soluble	Solid	300.0	33237
880-18584-42	HA-13 1.5-2	Soluble	Solid	300.0	33237
880-18584-43	P1 0-0.5	Soluble	Solid	300.0	33237
880-18584-44	P2 0-0.5	Soluble	Solid	300.0	33237
880-18584-45	P3 0-0.5	Soluble	Solid	300.0	33237
880-18584-46	P4 0-0.5	Soluble	Solid	300.0	33237
MB 880-33237/1-A	Method Blank	Soluble	Solid	300.0	33237
LCS 880-33237/2-A	Lab Control Sample	Soluble	Solid	300.0	33237
LCSD 880-33237/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33237
880-18584-37 MS	HA-12 0.5-1	Soluble	Solid	300.0	33237
880-18584-37 MSD	HA-12 0.5-1	Soluble	Solid	300.0	33237

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-1 0-0.5

Lab Sample ID: 880-18584-1
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 10:57	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 21:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 21:48	CH	EET MID

Client Sample ID: HA-1 0.5-1

Lab Sample ID: 880-18584-2
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 11:18	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 22:51	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 21:55	CH	EET MID

Client Sample ID: HA-1 1.5-2

Lab Sample ID: 880-18584-3
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 11:38	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 23:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 22:01	CH	EET MID

Client Sample ID: HA-2 0-0.5

Lab Sample ID: 880-18584-4
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 11:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-2 0-0.5

Lab Sample ID: 880-18584-4
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 23:34	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 22:08	CH	EET MID

Client Sample ID: HA-2 0.5-1

Lab Sample ID: 880-18584-5
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 12:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 23:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 22:28	CH	EET MID

Client Sample ID: HA-2 1.5-2

Lab Sample ID: 880-18584-6
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 12:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 00:17	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 22:35	CH	EET MID

Client Sample ID: HA-3 0-0.5

Lab Sample ID: 880-18584-7
Matrix: Solid
Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 13:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 00:38	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-3 0-0.5

Lab Sample ID: 880-18584-7
Matrix: Solid
Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 22:41	CH	EET MID

Client Sample ID: HA-3 0.5-1

Lab Sample ID: 880-18584-8
Matrix: Solid
Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 13:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 00:59	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 22:48	CH	EET MID

Client Sample ID: HA-3 1.5-2

Lab Sample ID: 880-18584-9
Matrix: Solid
Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 13:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 01:20	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 22:54	CH	EET MID

Client Sample ID: HA-4 0-0.5

Lab Sample ID: 880-18584-10
Matrix: Solid
Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 14:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 01:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 23:01	CH	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-4 0.5-1

Lab Sample ID: 880-18584-11

Date Collected: 08/24/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 15:24	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 02:23	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 23:21	CH	EET MID

Client Sample ID: HA-4 1.5-2

Lab Sample ID: 880-18584-12

Date Collected: 08/24/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 15:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 02:44	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 23:28	CH	EET MID

Client Sample ID: HA-5 0-0.5

Lab Sample ID: 880-18584-13

Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 16:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 03:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 23:48	CH	EET MID

Client Sample ID: HA-5 0.5-1

Lab Sample ID: 880-18584-14

Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 16:26	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-5 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 03:27	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/29/22 23:55	CH	EET MID

Client Sample ID: HA-5 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 16:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 03:48	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/30/22 00:01	CH	EET MID

Client Sample ID: HA-6 0-0.5

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 17:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 04:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33233	08/29/22 13:10	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33299	08/30/22 00:08	CH	EET MID

Client Sample ID: HA-6 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 17:27	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 04:31	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-6 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 00:07	CH	EET MID

Client Sample ID: HA-6 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 17:47	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 04:52	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 00:28	CH	EET MID

Client Sample ID: HA-7 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 18:08	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 05:13	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 00:35	CH	EET MID

Client Sample ID: HA-7 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33193	08/29/22 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33586	09/02/22 18:28	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33239	08/29/22 14:14	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/30/22 05:34	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 00:41	CH	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Job ID: 880-18584-1
Project/Site: CTB 145
SDG: 1284

Client Sample ID: HA-7 2.5-3R
Lab Sample ID: 880-18584-21
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 06:02	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 11:35	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 00:48	CH	EET MID

Client Sample ID: HA-8 0.5-1
Lab Sample ID: 880-18584-22
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	33557	09/02/22 07:24	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	33305	08/31/22 07:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 01:09	CH	EET MID

Client Sample ID: HA-8 1.5-2
Lab Sample ID: 880-18584-23
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 06:23	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 13:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 01:16	CH	EET MID

Client Sample ID: HA-8 2.5-3
Lab Sample ID: 880-18584-24
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	33557	09/02/22 07:44	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-8 2.5-3

Lab Sample ID: 880-18584-24
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 13:23	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 01:23	CH	EET MID

Client Sample ID: HA-8 3.5-4

Lab Sample ID: 880-18584-25
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	33557	09/02/22 08:05	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 13:44	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 01:29	CH	EET MID

Client Sample ID: HA-9 0.5-1

Lab Sample ID: 880-18584-26
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	33557	09/02/22 08:25	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 14:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 01:36	CH	EET MID

Client Sample ID: HA-9 1.5-2

Lab Sample ID: 880-18584-27
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 06:43	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 14:28	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-9 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 01:43	CH	EET MID

Client Sample ID: HA-9 2.5-3R

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 07:04	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 14:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 02:04	CH	EET MID

Client Sample ID: HA-10 0.5-1

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	33557	09/02/22 08:46	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	33305	08/31/22 06:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 02:10	CH	EET MID

Client Sample ID: HA-10 1.5-2

Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18584-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	33557	09/02/22 09:06	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 15:32	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 02:31	CH	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-10 2.5-3

Lab Sample ID: 880-18584-31
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	33557	09/02/22 13:19	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 16:15	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 02:38	CH	EET MID

Client Sample ID: HA-10 3.5-4

Lab Sample ID: 880-18584-32
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 10:56	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 16:37	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 02:45	CH	EET MID

Client Sample ID: HA-11 0.5-1

Lab Sample ID: 880-18584-33
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 11:16	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 16:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 02:52	CH	EET MID

Client Sample ID: HA-11 1.5-2

Lab Sample ID: 880-18584-34
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 11:37	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-11 1.5-2

Lab Sample ID: 880-18584-34
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 17:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 02:58	CH	EET MID

Client Sample ID: HA-11 2.5-3R

Lab Sample ID: 880-18584-35
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 11:57	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 17:42	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 03:05	CH	EET MID

Client Sample ID: HA-12 0-0.5

Lab Sample ID: 880-18584-36
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	33557	09/02/22 13:39	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 18:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33236	08/29/22 13:27	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33349	08/31/22 03:12	CH	EET MID

Client Sample ID: HA-12 0.5-1

Lab Sample ID: 880-18584-37
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	33557	09/02/22 14:00	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 18:26	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-12 0.5-1

Lab Sample ID: 880-18584-37
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	33237	08/29/22 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33366	08/31/22 07:31	CH	EET MID

Client Sample ID: HA-12 1.5-2

Lab Sample ID: 880-18584-38
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 12:18	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 18:47	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33237	08/29/22 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33366	08/31/22 07:59	CH	EET MID

Client Sample ID: HA-12 2.5-3

Lab Sample ID: 880-18584-39
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 12:38	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 19:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33237	08/29/22 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33366	08/31/22 08:08	CH	EET MID

Client Sample ID: HA-13 0-0.5

Lab Sample ID: 880-18584-40
Matrix: Solid
Date Collected: 08/26/22 00:00
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33195	08/29/22 11:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 12:58	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33240	08/29/22 14:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 19:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33237	08/29/22 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33366	08/31/22 08:17	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Client Sample ID: HA-13 0.5-1

Lab Sample ID: 880-18584-41

Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33469	09/01/22 03:44	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33268	08/29/22 15:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 11:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33237	08/29/22 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33366	08/31/22 08:27	CH	EET MID

Client Sample ID: HA-13 1.5-2

Lab Sample ID: 880-18584-42

Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33469	09/01/22 04:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33268	08/29/22 15:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 12:40	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33237	08/29/22 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33366	08/31/22 08:54	CH	EET MID

Client Sample ID: P1 0-0.5

Lab Sample ID: 880-18584-43

Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33469	09/01/22 04:34	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33268	08/29/22 15:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 13:01	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33237	08/29/22 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33366	08/31/22 09:03	CH	EET MID

Client Sample ID: P2 0-0.5

Lab Sample ID: 880-18584-44

Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33469	09/01/22 04:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Job ID: 880-18584-1
Project/Site: CTB 145
SDG: 1284

Client Sample ID: P2 0-0.5
Lab Sample ID: 880-18584-44
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33268	08/29/22 15:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 13:23	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33237	08/29/22 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33366	08/31/22 09:13	CH	EET MID

Client Sample ID: P3 0-0.5
Lab Sample ID: 880-18584-45
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33469	09/01/22 05:25	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33268	08/29/22 15:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 13:44	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33237	08/29/22 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33366	08/31/22 09:22	CH	EET MID

Client Sample ID: P4 0-0.5
Lab Sample ID: 880-18584-46
Date Collected: 08/26/22 00:00
Matrix: Solid
Date Received: 08/29/22 08:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33469	09/01/22 05:50	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33549	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			33318	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33268	08/29/22 15:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 14:06	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33237	08/29/22 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33366	08/31/22 09:31	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Job ID: 880-18584-1
Project/Site: CTB 145
SDG: 1284

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18584-1
SDG: 1284

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18584-1	HA-1 0-0.5	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-2	HA-1 0.5-1	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-3	HA-1 1.5-2	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-4	HA-2 0-0.5	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-5	HA-2 0.5-1	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-6	HA-2 1.5-2	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-7	HA-3 0-0.5	Solid	08/24/22 00:00	08/29/22 08:42
880-18584-8	HA-3 0.5-1	Solid	08/24/22 00:00	08/29/22 08:42
880-18584-9	HA-3 1.5-2	Solid	08/24/22 00:00	08/29/22 08:42
880-18584-10	HA-4 0-0.5	Solid	08/24/22 00:00	08/29/22 08:42
880-18584-11	HA-4 0.5-1	Solid	08/24/22 00:00	08/29/22 08:42
880-18584-12	HA-4 1.5-2	Solid	08/24/22 00:00	08/29/22 08:42
880-18584-13	HA-5 0-0.5	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-14	HA-5 0.5-1	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-15	HA-5 1.5-2	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-16	HA-6 0-0.5	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-17	HA-6 0.5-1	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-18	HA-6 1.5-2	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-19	HA-7 0.5-1	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-20	HA-7 1.5-2	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-21	HA-7 2.5-3R	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-22	HA-8 0.5-1	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-23	HA-8 1.5-2	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-24	HA-8 2.5-3	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-25	HA-8 3.5-4	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-26	HA-9 0.5-1	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-27	HA-9 1.5-2	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-28	HA-9 2.5-3R	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-29	HA-10 0.5-1	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-30	HA-10 1.5-2	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-31	HA-10 2.5-3	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-32	HA-10 3.5-4	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-33	HA-11 0.5-1	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-34	HA-11 1.5-2	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-35	HA-11 2.5-3R	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-36	HA-12 0-0.5	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-37	HA-12 0.5-1	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-38	HA-12 1.5-2	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-39	HA-12 2.5-3	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-40	HA-13 0-0.5	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-41	HA-13 0.5-1	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-42	HA-13 1.5-2	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-43	P1 0-0.5	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-44	P2 0-0.5	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-45	P3 0-0.5	Solid	08/26/22 00:00	08/29/22 08:42
880-18584-46	P4 0-0.5	Solid	08/26/22 00:00	08/29/22 08:42

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Chain of Custody

Houston TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 18584

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Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	CTB 145
Project Number	1284
Project Location	
Sampler's Name	Tom Carlson
PO #	

Turn Around

☐ Routine ☒ Rush
Due Date 2day
TAT starts the day received by the lab, if received by 4 30pm

SAMPLE RECEIPT				
Temp Blank.	Yes (No)	Wet Ice	Yes (No)	
Samples Received Intact	(Yes) No	Thermometer ID	IR8	
Cooler Custody Seals	Yes No (N/A)	Correction Factor	.20	
Sample Custody Seals	Yes No (N/A)	Temperature Reading	1.3	
Total Containers		Corrected Temperature	1.5	

ANALYSIS REQUEST

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	TPH 8015	BTEX
HA-1	0-0.5	S	8/26			G	1		X	X	X
HA-1	0.5-1										
HA-1	1.5-2										
HA-2	0-0.5										
HA-2	0.5-1										
HA-2	1.5-2										

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

880-18584 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		8/29/22	2		
3		8:42	4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

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Chain of Custody

Houston TX (281) 240-4200 Dallas, TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 18584

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Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	CTB145	Turn Around	☐ Routine ☑ Rush
Project Number	1284	Due Date	2 day
Project Location		TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name	Tom Carlson		
PO #			

SAMPLE RECEIPT	Temp Blank	Yes No	Wet Ice	Yes No
Samples Received Intact	Yes No		Thermometer ID	
Cooler Custody Seals	Yes No N/A		Correction Factor	
Sample Custody Seals	Yes No N/A		Temperature Reading	
Total Containers			Corrected Temperature	

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	TPH 8015	BTEX	Sample Comments
HA-3 0-0.5	S	8/24			G	1		X	X	X	
HA-3 0.5-1											
HA-3 1.5-2											
HA-4 0-0.5											
HA-4 0.5-1											
HA-4 1.5-2											

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		8.29.22	2		
3		8:42	4		
5			6		

Revised Date 08/25/2020 Rev 2020.2

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Chain of Custody

Houston TX (281) 240-4200 Dallas, TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 18584

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Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	CTB 145	Turn Around	☐ Routine ☒ Rush
Project Number	1284	Due Date	2 Day
Project Location		TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name	Tom Carlson		
PO #			

SAMPLE RECEIPT	Temp Blank	Yes No	Wet Ice	Yes No
Samples Received Intact.	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2S0_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	TPH 8015	BTEX	Sample Comments
HA-5 0-0.5	S	8/26			G	1		X	X	X	
HA-5 0.5-1											
HA-5 1.5-2											
HA-6 0-0.5											
HA-6 0.5-1											
HA-6 1.5-2											

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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1		8/29/22	2		
3		8:42	4		
5			6		

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
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EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 18584

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Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project.
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	CTB 145	Turn Around	☐ Routine ☒ Rush
Project Number	1284	Due Date	2day
Project Location		TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name	Tom Carlson		
PO #			

SAMPLE RECEIPT				
Temp Blank	Yes No	Wet Ice	Yes No	
Samples Received Intact	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	TPH 8015	BTEX
HA-7 0.5-1	S	8/26			G	1		X	X	X
HA-7 1.5-2										
HA-7 2.5-3R										
HA-8 0.5-1										
HA-8 1.5-2										
HA-8 2.5-3										

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
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Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 18584

www xenco com Page 5 of 8

Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	CTB 145	Turn Around			
Project Number	1284	☐ Routine	☒ Rush		
Project Location		Due Date	2 Day		
Sampler's Name	Tom Carlson	TAT starts the day received by the lab if received by 4 30pm			
PO #					

SAMPLE RECEIPT			Wet Ice	
Samples Received Intact	Yes No	Temp Blank	Yes	No
Cooler Custody Seals	Yes No N/A	Thermometer ID		
Sample Custody Seals	Yes No N/A	Correction Factor		
Total Containers		Temperature Reading		
		Corrected Temperature		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride	TPH 8015	BTEX
HA9 -3.5-4	S	8/26			G	1		X	X	X
HA-9 0.5-1										
HA-9 1.5-2										
HA-9 2.5-3R										
HA-10 0.5-1										
HA-10 1.5-2										

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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1		8/29/22 8:42	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020 2

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Work Order No: 190584

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Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	CTB 145	Turn Around	☐ Routine ☒ Rush
Project Number	1284	Due Date	2 day
Project Location		TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name	Tom Carlson		
PO #			

SAMPLE RECEIPT				
Temp Blank	Yes No	Wet Ice	Yes No	
Samples Received Intact	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	TPH 8015	BTEX	Sample Comments
HA-10 2.5-3	S	8/26			G	1		X	X	X	
HA-10 3.5-4											
HA-11 0.5-1											
HA-11 1.5-2											
HA-11 2.5-3R											
HA-12 0-0.5											

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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1		8/29/22 8:42	2		
3			4		
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Revised Date: 08/25/2020 Rev 2020.2

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Chain of Custody

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Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 185584

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Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	CTB145	Turn Around	☐ Routine ☒ Rush
Project Number	1284	Due Date	1 Day
Project Location		TAT starts the day received by the lab, if received by 4 30pm	
Sampler's Name	Tom Carlson		
PO #			

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice	Yes No	
Samples Received Intact	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	TPH 8015	BTEX
HA-12 0.5-1	S	8/26			G	1		X	X	X
HA-12 1.5-2										
HA-12 2.5-3										
HA-13 0-0.5										
HA-13 0.5-1										
HA-13 1.5-2										

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
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Work Order No: 18584

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Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	CTB145	Turn Around	☐ Routine ☒ Rush
Project Number	1284	Due Date	2day
Project Location		TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name	Tom Carlson		
PO #			

SAMPLE RECEIPT	Temp Blank. Yes No	Wet Ice Yes No
Samples Received Intact	Yes No	Thermometer ID
Cooler Custody Seals	Yes No N/A	Correction Factor
Sample Custody Seals	Yes No N/A	Temperature Reading
Total Containers		Corrected Temperature

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2S0_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	TPH 8015	BTEX
P1 0-0.5	S	8/26			G	1		X	X	X
P2 0-0.5						1				
P3 0-0.5						1				
P4 0-0.5						1				

Sample Comments

Loc: 880
18584

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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1		8/29/22 8:42	2		
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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-18584-1
SDG Number: 1284

Login Number: 18584
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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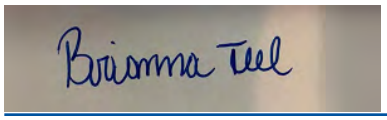
ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-20320-1
Client Project/Site: CTB 145

For:
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Attn: Kris Williams



Authorized for release by:
10/18/2022 9:53:14 AM

Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

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

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

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Laboratory Job ID: 880-20320-1

Table of Contents

Definitions/Glossary

Client: Earth Systems Response and Restoration Job ID: 880-20320-1
Project/Site: CTB 145

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Job ID: 880-20320-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-20320-1

Receipt
The samples were received on 10/12/2022 5:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C

Receipt Exceptions
The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-36971 and analytical batch 880-37033 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-15 (880-20320-15). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-15 (880-20320-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-36815/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-36815 and analytical batch 880-36804 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC
Method 300_ORGFM_28D: The continuing calibration blank (CCB) for analytical batch 880-36891 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 300_ORGFM_28D: The laboratory control sample (LCS) associated with preparation batch 880-36872 and 880-36872 and analytical batch 880-36891 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-1
Lab Sample ID: 880-20320-1
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 17:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 17:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 17:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/14/22 12:47	10/16/22 17:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 17:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/14/22 12:47	10/16/22 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*10/14/22 12:47*	*10/16/22 17:13*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*10/14/22 12:47*	*10/16/22 17:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		10/13/22 08:32	10/13/22 12:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/13/22 08:32	10/13/22 12:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/22 08:32	10/13/22 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*10/13/22 08:32*	*10/13/22 12:36*	*1*
o-Terphenyl	*93*		*70 - 130*	*10/13/22 08:32*	*10/13/22 12:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.0**	*+	4.97		mg/Kg			10/14/22 21:32	1

Client Sample ID: CS-2
Lab Sample ID: 880-20320-2
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:47	10/16/22 17:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:47	10/16/22 17:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:47	10/16/22 17:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/14/22 12:47	10/16/22 17:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:47	10/16/22 17:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/14/22 12:47	10/16/22 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*10/14/22 12:47*	*10/16/22 17:33*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-2
Lab Sample ID: 880-20320-2
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/14/22 12:47*	*10/16/22 17:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 13:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 13:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:32	10/13/22 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*96*		*70 - 130*	*10/13/22 08:32*	*10/13/22 13:39*	*1*
o-Terphenyl	*96*		*70 - 130*	*10/13/22 08:32*	*10/13/22 13:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U *+	5.02		mg/Kg			10/14/22 21:47	1

Client Sample ID: CS-3
Lab Sample ID: 880-20320-3
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 17:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 17:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 17:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 12:47	10/16/22 17:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 17:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 12:47	10/16/22 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*10/14/22 12:47*	*10/16/22 17:54*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/14/22 12:47*	*10/16/22 17:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/14/22 10:30	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-3
Lab Sample ID: 880-20320-3
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		10/13/22 08:32	10/13/22 14:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/13/22 08:32	10/13/22 14:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/22 08:32	10/13/22 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*10/13/22 08:32*	*10/13/22 14:00*	*1*
o-Terphenyl	*84*		*70 - 130*	*10/13/22 08:32*	*10/13/22 14:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.1**	*+	5.03		mg/Kg			10/14/22 21:52	1

Client Sample ID: CS-4
Lab Sample ID: 880-20320-4
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 18:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 18:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 18:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/16/22 18:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 18:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/16/22 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*10/14/22 12:47*	*10/16/22 18:14*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*10/14/22 12:47*	*10/16/22 18:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 14:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 14:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:32	10/13/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*10/13/22 08:32*	*10/13/22 14:22*	*1*
o-Terphenyl	*92*		*70 - 130*	*10/13/22 08:32*	*10/13/22 14:22*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-4
Lab Sample ID: 880-20320-4
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.4	*+	5.02		mg/Kg			10/14/22 21:57	1

Client Sample ID: CS-5
Lab Sample ID: 880-20320-5
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/14/22 12:47	10/16/22 18:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/14/22 12:47	10/16/22 18:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/14/22 12:47	10/16/22 18:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/14/22 12:47	10/16/22 18:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/14/22 12:47	10/16/22 18:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/14/22 12:47	10/16/22 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*10/14/22 12:47*	*10/16/22 18:35*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/14/22 12:47*	*10/16/22 18:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 14:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 14:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:32	10/13/22 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*10/13/22 08:32*	*10/13/22 14:43*	*1*
o-Terphenyl	*97*		*70 - 130*	*10/13/22 08:32*	*10/13/22 14:43*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3	*+	5.00		mg/Kg			10/14/22 22:02	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-6
Lab Sample ID: 880-20320-6
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 0 - 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 18:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 18:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 18:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/16/22 18:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 18:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/16/22 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/14/22 12:47*	*10/16/22 18:55*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/14/22 12:47*	*10/16/22 18:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 15:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 15:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:32	10/13/22 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*10/13/22 08:32*	*10/13/22 15:04*	*1*
o-Terphenyl	*88*		*70 - 130*	*10/13/22 08:32*	*10/13/22 15:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.8**	*+	4.96		mg/Kg			10/14/22 22:18	1

Client Sample ID: CS-7
Lab Sample ID: 880-20320-7
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1.5 - 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 19:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 19:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 19:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/14/22 12:47	10/16/22 19:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 19:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/14/22 12:47	10/16/22 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/14/22 12:47*	*10/16/22 19:16*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-7
Lab Sample ID: 880-20320-7
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1.5 - 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/14/22 12:47*	*10/16/22 19:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 15:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 15:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:32	10/13/22 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*94*		*70 - 130*	*10/13/22 08:32*	*10/13/22 15:26*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/13/22 08:32*	*10/13/22 15:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.7**	*+	4.98		mg/Kg			10/14/22 22:23	1

Client Sample ID: CS-8
Lab Sample ID: 880-20320-8
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1.5 - 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 19:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 19:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 19:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/14/22 12:47	10/16/22 19:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:47	10/16/22 19:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/14/22 12:47	10/16/22 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*10/14/22 12:47*	*10/16/22 19:36*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*10/14/22 12:47*	*10/16/22 19:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/14/22 10:30	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-8
Lab Sample ID: 880-20320-8
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1.5 - 2

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 15:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 15:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:32	10/13/22 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*10/13/22 08:32*	*10/13/22 15:47*	*1*
o-Terphenyl	*89*		*70 - 130*	*10/13/22 08:32*	*10/13/22 15:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.5**	*+	5.05		mg/Kg			10/14/22 22:28	1

Client Sample ID: CS-9
Lab Sample ID: 880-20320-9
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 4 - 4.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 19:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 19:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 19:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/16/22 19:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 19:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/16/22 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/14/22 12:47*	*10/16/22 19:57*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/14/22 12:47*	*10/16/22 19:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		10/13/22 08:32	10/13/22 16:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/13/22 08:32	10/13/22 16:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/22 08:32	10/13/22 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*10/13/22 08:32*	*10/13/22 16:08*	*1*
o-Terphenyl	*92*		*70 - 130*	*10/13/22 08:32*	*10/13/22 16:08*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-9
Lab Sample ID: 880-20320-9
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 4 - 4.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.7	*+	4.98		mg/Kg			10/14/22 22:33	1

Client Sample ID: CS-10
Lab Sample ID: 880-20320-10
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 4 - 4.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 20:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 20:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 20:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 12:47	10/16/22 20:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 20:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 12:47	10/16/22 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*10/14/22 12:47*	*10/16/22 20:17*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*10/14/22 12:47*	*10/16/22 20:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		10/13/22 08:32	10/13/22 16:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/13/22 08:32	10/13/22 16:30	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/22 08:32	10/13/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*10/13/22 08:32*	*10/13/22 16:30*	*1*
o-Terphenyl	*99*		*70 - 130*	*10/13/22 08:32*	*10/13/22 16:30*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.8	*+	5.04		mg/Kg			10/14/22 22:38	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-11
Lab Sample ID: 880-20320-11
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1.5 - 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 21:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 21:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 21:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/14/22 12:47	10/16/22 21:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 21:40	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/14/22 12:47	10/16/22 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*10/14/22 12:47*	*10/16/22 21:40*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/14/22 12:47*	*10/16/22 21:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 17:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 17:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:32	10/13/22 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*10/13/22 08:32*	*10/13/22 17:13*	*1*
o-Terphenyl	*93*		*70 - 130*	*10/13/22 08:32*	*10/13/22 17:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.8**	*+	5.05		mg/Kg			10/14/22 22:43	1

Client Sample ID: CS-12
Lab Sample ID: 880-20320-12
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1.5 - 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 22:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 22:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 22:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 12:47	10/16/22 22:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/16/22 22:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 12:47	10/16/22 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/14/22 12:47*	*10/16/22 22:00*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-12
Lab Sample ID: 880-20320-12
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1.5 - 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/14/22 12:47*	*10/16/22 22:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 17:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:32	10/13/22 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*92*		*70 - 130*	*10/13/22 08:32*	*10/13/22 17:34*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/13/22 08:32*	*10/13/22 17:34*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.6**	*+	4.97		mg/Kg			10/14/22 22:59	1

Client Sample ID: CS-13
Lab Sample ID: 880-20320-13
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 4 - 4.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 22:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 22:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 22:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/16/22 22:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 22:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/16/22 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*10/14/22 12:47*	*10/16/22 22:21*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/14/22 12:47*	*10/16/22 22:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/14/22 10:30	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-13
Lab Sample ID: 880-20320-13
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 4 - 4.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 17:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 17:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:32	10/13/22 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*10/13/22 08:32*	*10/13/22 17:56*	*1*
o-Terphenyl	*104*		*70 - 130*	*10/13/22 08:32*	*10/13/22 17:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.7**	*+	4.99		mg/Kg			10/14/22 23:04	1

Client Sample ID: CS-14
Lab Sample ID: 880-20320-14
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 4 - 4.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:47	10/16/22 22:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:47	10/16/22 22:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:47	10/16/22 22:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/14/22 12:47	10/16/22 22:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:47	10/16/22 22:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/14/22 12:47	10/16/22 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*10/14/22 12:47*	*10/16/22 22:41*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*10/14/22 12:47*	*10/16/22 22:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		10/13/22 08:32	10/13/22 18:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/13/22 08:32	10/13/22 18:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/22 08:32	10/13/22 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*10/13/22 08:32*	*10/13/22 18:17*	*1*
o-Terphenyl	*97*		*70 - 130*	*10/13/22 08:32*	*10/13/22 18:17*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-14
Lab Sample ID: 880-20320-14
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 4 - 4.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.5	*+ ^2	4.95		mg/Kg			10/14/22 23:19	1

Client Sample ID: CS-15
Lab Sample ID: 880-20320-15
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 10 - 10.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00271		0.00201		mg/Kg		10/14/22 12:47	10/16/22 23:02	1
Toluene	0.364		0.00201		mg/Kg		10/14/22 12:47	10/16/22 23:02	1
Ethylbenzene	0.203		0.00201		mg/Kg		10/14/22 12:47	10/16/22 23:02	1
m-Xylene & p-Xylene	0.625		0.00402		mg/Kg		10/14/22 12:47	10/16/22 23:02	1
o-Xylene	2.16		0.0200		mg/Kg		10/17/22 08:52	10/17/22 14:51	10
Xylenes, Total	4.82		0.0401		mg/Kg		10/17/22 08:52	10/17/22 14:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*49*	*S1-*	*70 - 130*	*10/14/22 12:47*	*10/16/22 23:02*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/14/22 12:47*	*10/16/22 23:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.35		0.00402		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1890		50.0		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	716	*+	50.0		mg/Kg		10/13/22 08:32	10/13/22 18:39	1
Diesel Range Organics (Over C10-C28)	1170	*+	50.0		mg/Kg		10/13/22 08:32	10/13/22 18:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:32	10/13/22 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*10/13/22 08:32*	*10/13/22 18:39*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/13/22 08:32*	*10/13/22 18:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	184	*+ ^2	5.03		mg/Kg			10/14/22 23:24	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-16
Lab Sample ID: 880-20320-16
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 5.5 - 6

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/14/22 12:47	10/16/22 23:22	1
Toluene	**0.00557**		0.00202		mg/Kg		10/14/22 12:47	10/16/22 23:22	1
Ethylbenzene	**0.00203**		0.00202		mg/Kg		10/14/22 12:47	10/16/22 23:22	1
m-Xylene & p-Xylene	**0.00461**		0.00404		mg/Kg		10/14/22 12:47	10/16/22 23:22	1
o-Xylene	**0.00530**		0.00202		mg/Kg		10/14/22 12:47	10/16/22 23:22	1
Xylenes, Total	**0.00991**		0.00404		mg/Kg		10/14/22 12:47	10/16/22 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*10/14/22 12:47*	*10/16/22 23:22*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*10/14/22 12:47*	*10/16/22 23:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0175**		0.00404		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**52.0**		50.0		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 19:01	1
Diesel Range Organics (Over C10-C28)	**52.0**	***+**	50.0		mg/Kg		10/13/22 08:32	10/13/22 19:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:32	10/13/22 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*10/13/22 08:32*	*10/13/22 19:01*	*1*
o-Terphenyl	*103*		*70 - 130*	*10/13/22 08:32*	*10/13/22 19:01*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.0**	***+ ^2**	5.02		mg/Kg			10/14/22 23:30	1

Client Sample ID: CS-17
Lab Sample ID: 880-20320-17
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 4 - 4.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 23:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 23:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 23:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/16/22 23:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 23:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/16/22 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*10/14/22 12:47*	*10/16/22 23:43*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-17
Lab Sample ID: 880-20320-17
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 4 - 4.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/14/22 12:47*	*10/16/22 23:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.0**		50.0		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 19:22	1
Diesel Range Organics (Over C10-C28)	**57.0**	***+**	50.0		mg/Kg		10/13/22 08:32	10/13/22 19:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:32	10/13/22 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*103*		*70 - 130*	*10/13/22 08:32*	*10/13/22 19:22*	*1*
o-Terphenyl	*102*		*70 - 130*	*10/13/22 08:32*	*10/13/22 19:22*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.5**	***+ ^2**	4.95		mg/Kg			10/14/22 23:35	1

Client Sample ID: CS-18
Lab Sample ID: 880-20320-18
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/17/22 00:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/17/22 00:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/17/22 00:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 12:47	10/17/22 00:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/17/22 00:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 12:47	10/17/22 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*10/14/22 12:47*	*10/17/22 00:03*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*10/14/22 12:47*	*10/17/22 00:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/14/22 10:30	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-18
Lab Sample ID: 880-20320-18
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/13/22 08:32	10/13/22 19:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:32	10/13/22 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*10/13/22 08:32*	*10/13/22 19:44*	*1*
o-Terphenyl	*102*		*70 - 130*	*10/13/22 08:32*	*10/13/22 19:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.6**	***+ ^2**	4.99		mg/Kg			10/14/22 23:40	1

Client Sample ID: CS-19
Lab Sample ID: 880-20320-19
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/17/22 00:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/17/22 00:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/17/22 00:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 12:47	10/17/22 00:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:47	10/17/22 00:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 12:47	10/17/22 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*10/14/22 12:47*	*10/17/22 00:23*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/14/22 12:47*	*10/17/22 00:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 20:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 20:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:32	10/13/22 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*10/13/22 08:32*	*10/13/22 20:05*	*1*
o-Terphenyl	*113*		*70 - 130*	*10/13/22 08:32*	*10/13/22 20:05*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-19
Lab Sample ID: 880-20320-19
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.2**	***+ ^2**	4.98		mg/Kg			10/14/22 23:45	1

Client Sample ID: CS-20
Lab Sample ID: 880-20320-20
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/17/22 00:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/17/22 00:44	1
Ethylbenzene	**0.00243**		0.00200		mg/Kg		10/14/22 12:47	10/17/22 00:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/17/22 00:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/17/22 00:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/22 12:47	10/17/22 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*10/14/22 12:47*	*10/17/22 00:44*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/14/22 12:47*	*10/17/22 00:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**144**		49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		10/13/22 08:32	10/13/22 20:26	1
Diesel Range Organics (Over C10-C28)	**144**	***+**	49.9		mg/Kg		10/13/22 08:32	10/13/22 20:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:32	10/13/22 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*10/13/22 08:32*	*10/13/22 20:26*	*1*
o-Terphenyl	*114*		*70 - 130*	*10/13/22 08:32*	*10/13/22 20:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.2**	***+ ^2**	5.00		mg/Kg			10/14/22 23:50	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-21
Lab Sample ID: 880-20320-21
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 00:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 00:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 00:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/14/22 12:51	10/17/22 00:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 00:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/22 12:51	10/17/22 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/14/22 12:51*	*10/17/22 00:11*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/14/22 12:51*	*10/17/22 00:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**615**		49.8		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/13/22 08:36	10/13/22 12:36	1
Diesel Range Organics (Over C10-C28)	**615**		49.8		mg/Kg		10/13/22 08:36	10/13/22 12:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/22 08:36	10/13/22 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*10/13/22 08:36*	*10/13/22 12:36*	*1*
o-Terphenyl	*95*		*70 - 130*	*10/13/22 08:36*	*10/13/22 12:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.0**		5.00		mg/Kg			10/15/22 06:39	1

Client Sample ID: CS-22
Lab Sample ID: 880-20320-22
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:51	10/17/22 00:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:51	10/17/22 00:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:51	10/17/22 00:31	1
m-Xylene & p-Xylene	**0.00858**		0.00402		mg/Kg		10/14/22 12:51	10/17/22 00:31	1
o-Xylene	**0.00612**		0.00201		mg/Kg		10/14/22 12:51	10/17/22 00:31	1
Xylenes, Total	**0.0147**		0.00402		mg/Kg		10/14/22 12:51	10/17/22 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*10/14/22 12:51*	*10/17/22 00:31*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-22
Lab Sample ID: 880-20320-22
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/14/22 12:51*	*10/17/22 00:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0147**		0.00402		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 13:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 13:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*96*		*70 - 130*	*10/13/22 08:36*	*10/13/22 13:39*	*1*
o-Terphenyl	*105*		*70 - 130*	*10/13/22 08:36*	*10/13/22 13:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.8**		4.97		mg/Kg			10/15/22 06:54	1

Client Sample ID: CS-23
Lab Sample ID: 880-20320-23
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 00:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 00:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 00:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/14/22 12:51	10/17/22 00:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 00:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/14/22 12:51	10/17/22 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*10/14/22 12:51*	*10/17/22 00:51*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/14/22 12:51*	*10/17/22 00:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/14/22 10:30	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-23
Lab Sample ID: 880-20320-23
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/13/22 08:36	10/13/22 14:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/13/22 08:36	10/13/22 14:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/22 08:36	10/13/22 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*10/13/22 08:36*	*10/13/22 14:00*	*1*
o-Terphenyl	*106*		*70 - 130*	*10/13/22 08:36*	*10/13/22 14:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.0**		5.00		mg/Kg			10/15/22 06:58	1

Client Sample ID: CS-24
Lab Sample ID: 880-20320-24
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:51	10/17/22 01:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:51	10/17/22 01:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:51	10/17/22 01:12	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/14/22 12:51	10/17/22 01:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/14/22 12:51	10/17/22 01:12	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/14/22 12:51	10/17/22 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*10/14/22 12:51*	*10/17/22 01:12*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/14/22 12:51*	*10/17/22 01:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 14:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 14:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*10/13/22 08:36*	*10/13/22 14:22*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/13/22 08:36*	*10/13/22 14:22*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-24
Lab Sample ID: 880-20320-24
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.1		5.03		mg/Kg			10/15/22 07:03	1

Client Sample ID: CS-25
Lab Sample ID: 880-20320-25
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 01:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 01:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 01:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 12:51	10/17/22 01:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 01:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 12:51	10/17/22 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*10/14/22 12:51*	*10/17/22 01:32*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/14/22 12:51*	*10/17/22 01:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 14:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 14:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*10/13/22 08:36*	*10/13/22 14:43*	*1*
o-Terphenyl	*105*		*70 - 130*	*10/13/22 08:36*	*10/13/22 14:43*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.9		5.01		mg/Kg			10/15/22 07:08	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-26
Lab Sample ID: 880-20320-26
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/14/22 12:51	10/17/22 01:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/14/22 12:51	10/17/22 01:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/14/22 12:51	10/17/22 01:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/14/22 12:51	10/17/22 01:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/14/22 12:51	10/17/22 01:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/14/22 12:51	10/17/22 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*10/14/22 12:51*	*10/17/22 01:53*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*10/14/22 12:51*	*10/17/22 01:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 15:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 15:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*10/13/22 08:36*	*10/13/22 15:04*	*1*
o-Terphenyl	*117*		*70 - 130*	*10/13/22 08:36*	*10/13/22 15:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.5**		5.05		mg/Kg			10/15/22 07:23	1

Client Sample ID: CS-27
Lab Sample ID: 880-20320-27
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 02:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 02:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 02:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 12:51	10/17/22 02:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 02:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 12:51	10/17/22 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/14/22 12:51*	*10/17/22 02:13*	*1*

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Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-27
Lab Sample ID: 880-20320-27
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2 - 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*10/14/22 12:51*	*10/17/22 02:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 15:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 15:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*95*		*70 - 130*	*10/13/22 08:36*	*10/13/22 15:26*	*1*
o-Terphenyl	*105*		*70 - 130*	*10/13/22 08:36*	*10/13/22 15:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.3**		4.99		mg/Kg			10/15/22 07:28	1

Client Sample ID: CS-28
Lab Sample ID: 880-20320-28
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 02:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 02:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 02:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 12:51	10/17/22 02:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 02:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 12:51	10/17/22 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*10/14/22 12:51*	*10/17/22 02:33*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/14/22 12:51*	*10/17/22 02:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/14/22 10:30	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-28
Lab Sample ID: 880-20320-28
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 15:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 15:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*10/13/22 08:36*	*10/13/22 15:47*	*1*
o-Terphenyl	*100*		*70 - 130*	*10/13/22 08:36*	*10/13/22 15:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.5**		4.96		mg/Kg			10/15/22 07:32	1

Client Sample ID: CS-29
Lab Sample ID: 880-20320-29
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:51	10/17/22 02:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:51	10/17/22 02:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:51	10/17/22 02:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/14/22 12:51	10/17/22 02:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:51	10/17/22 02:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/14/22 12:51	10/17/22 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*10/14/22 12:51*	*10/17/22 02:54*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/14/22 12:51*	*10/17/22 02:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/13/22 08:36	10/13/22 16:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/13/22 08:36	10/13/22 16:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/22 08:36	10/13/22 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*10/13/22 08:36*	*10/13/22 16:08*	*1*
o-Terphenyl	*103*		*70 - 130*	*10/13/22 08:36*	*10/13/22 16:08*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-29
Lab Sample ID: 880-20320-29
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 1 - 1.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.2		5.02		mg/Kg			10/15/22 07:37	1

Client Sample ID: SW-1
Lab Sample ID: 880-20320-30
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:51	10/17/22 03:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:51	10/17/22 03:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:51	10/17/22 03:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/14/22 12:51	10/17/22 03:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/14/22 12:51	10/17/22 03:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/14/22 12:51	10/17/22 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*10/14/22 12:51*	*10/17/22 03:14*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*10/14/22 12:51*	*10/17/22 03:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/13/22 08:36	10/13/22 16:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/13/22 08:36	10/13/22 16:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/22 08:36	10/13/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*10/13/22 08:36*	*10/13/22 16:30*	*1*
o-Terphenyl	*98*		*70 - 130*	*10/13/22 08:36*	*10/13/22 16:30*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.7		5.03		mg/Kg			10/15/22 07:42	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: SW-2
Lab Sample ID: 880-20320-31
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 05:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 05:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 05:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 12:51	10/17/22 05:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 05:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 12:51	10/17/22 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*10/14/22 12:51*	*10/17/22 05:03*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*10/14/22 12:51*	*10/17/22 05:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 17:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 17:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*10/13/22 08:36*	*10/13/22 17:13*	*1*
o-Terphenyl	*95*		*70 - 130*	*10/13/22 08:36*	*10/13/22 17:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.7**		4.99		mg/Kg			10/15/22 07:47	1

Client Sample ID: SW-3
Lab Sample ID: 880-20320-32
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 05:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 05:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 05:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/22 12:51	10/17/22 05:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/22 12:51	10/17/22 05:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/22 12:51	10/17/22 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/14/22 12:51*	*10/17/22 05:24*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: SW-3
Lab Sample ID: 880-20320-32
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/14/22 12:51*	*10/17/22 05:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/22 10:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 17:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/22 08:36	10/13/22 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*10/13/22 08:36*	*10/13/22 17:34*	*1*
o-Terphenyl	*121*		*70 - 130*	*10/13/22 08:36*	*10/13/22 17:34*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.1**		5.04		mg/Kg			10/15/22 08:02	1

Client Sample ID: SW-4
Lab Sample ID: 880-20320-33
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 05:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 05:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 05:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/14/22 12:51	10/17/22 05:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/17/22 05:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/22 12:51	10/17/22 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*10/14/22 12:51*	*10/17/22 05:44*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/14/22 12:51*	*10/17/22 05:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/17/22 10:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**148**		50.0		mg/Kg			10/14/22 10:30	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: SW-4
Lab Sample ID: 880-20320-33
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 17:56	1
Diesel Range Organics (Over C10-C28)	**148**		50.0		mg/Kg		10/13/22 08:36	10/13/22 17:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*10/13/22 08:36*	*10/13/22 17:56*	*1*
o-Terphenyl	*93*		*70 - 130*	*10/13/22 08:36*	*10/13/22 17:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.0**		5.02		mg/Kg			10/15/22 08:06	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-20138-A-14-A MS	Matrix Spike	94	107
880-20138-A-14-B MSD	Matrix Spike Duplicate	94	107
880-20320-1	CS-1	80	82
880-20320-1 MS	CS-1	107	94
880-20320-1 MSD	CS-1	98	104
880-20320-2	CS-2	95	100
880-20320-3	CS-3	96	96
880-20320-4	CS-4	102	97
880-20320-5	CS-5	97	99
880-20320-6	CS-6	115	92
880-20320-7	CS-7	98	94
880-20320-8	CS-8	114	89
880-20320-9	CS-9	111	92
880-20320-10	CS-10	89	93
880-20320-11	CS-11	75	100
880-20320-12	CS-12	110	95
880-20320-13	CS-13	102	100
880-20320-14	CS-14	104	89
880-20320-15	CS-15	49 S1-	101
880-20320-16	CS-16	99	97
880-20320-17	CS-17	105	98
880-20320-18	CS-18	82	74
880-20320-19	CS-19	97	95
880-20320-20	CS-20	107	102
880-20320-21	CS-21	98	99
880-20320-22	CS-22	95	94
880-20320-23	CS-23	97	101
880-20320-24	CS-24	95	102
880-20320-25	CS-25	103	101
880-20320-26	CS-26	95	103
880-20320-27	CS-27	98	104
880-20320-28	CS-28	95	100
880-20320-29	CS-29	94	100
880-20320-30	SW-1	103	104
880-20320-31	SW-2	99	104
880-20320-32	SW-3	98	99
880-20320-33	SW-4	96	102
890-3173-A-49-E MS	Matrix Spike	88	97
890-3173-A-49-F MSD	Matrix Spike Duplicate	102	104
LCS 880-36970/1-A	Lab Control Sample	107	101
LCS 880-36971/1-A	Lab Control Sample	88	99
LCS 880-37048/1-A	Lab Control Sample	94	107
LCSD 880-36970/2-A	Lab Control Sample Dup	110	108
LCSD 880-36971/2-A	Lab Control Sample Dup	95	96
LCSD 880-37048/2-A	Lab Control Sample Dup	87	106
MB 880-36970/5-A	Method Blank	87	95
MB 880-36971/5-A	Method Blank	91	107
MB 880-37048/5-A	Method Blank	91	110

Surrogate Legend

Surrogate Summary

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-20320-1	CS-1	99	93
880-20320-1 MS	CS-1	96	83
880-20320-1 MSD	CS-1	82	77
880-20320-2	CS-2	96	96
880-20320-3	CS-3	85	84
880-20320-4	CS-4	89	92
880-20320-5	CS-5	99	97
880-20320-6	CS-6	89	88
880-20320-7	CS-7	94	90
880-20320-8	CS-8	91	89
880-20320-9	CS-9	91	92
880-20320-10	CS-10	100	99
880-20320-11	CS-11	94	93
880-20320-12	CS-12	92	90
880-20320-13	CS-13	114	104
880-20320-14	CS-14	95	97
880-20320-15	CS-15	120	108
880-20320-16	CS-16	111	103
880-20320-17	CS-17	103	102
880-20320-18	CS-18	104	102
880-20320-19	CS-19	115	113
880-20320-20	CS-20	114	114
880-20320-21	CS-21	88	95
880-20320-21 MS	CS-21	91	89
880-20320-21 MSD	CS-21	102	101
880-20320-22	CS-22	96	105
880-20320-23	CS-23	94	106
880-20320-24	CS-24	95	108
880-20320-25	CS-25	94	105
880-20320-26	CS-26	108	117
880-20320-27	CS-27	95	105
880-20320-28	CS-28	90	100
880-20320-29	CS-29	92	103
880-20320-30	SW-1	92	98
880-20320-31	SW-2	85	95
880-20320-32	SW-3	113	121
880-20320-33	SW-4	85	93
LCS 880-36815/2-A	Lab Control Sample	119	144 S1+
LCS 880-36816/2-A	Lab Control Sample	110	124
LCSD 880-36815/3-A	Lab Control Sample Dup	104	128
LCSD 880-36816/3-A	Lab Control Sample Dup	107	122
MB 880-36815/1-A	Method Blank	120	114
MB 880-36816/1-A	Method Blank	113	127

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-36970/5-A
Matrix: Solid
Analysis Batch: 37034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 16:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 16:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 16:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/14/22 12:47	10/16/22 16:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:47	10/16/22 16:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/14/22 12:47	10/16/22 16:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*10/14/22 12:47*	*10/16/22 16:51*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/14/22 12:47*	*10/16/22 16:51*	*1*

Lab Sample ID: LCS 880-36970/1-A
Matrix: Solid
Analysis Batch: 37034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1183		mg/Kg		118	70 - 130
Toluene	0.100	0.1128		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1175		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2540		mg/Kg		127	70 - 130
o-Xylene	0.100	0.1230		mg/Kg		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-36970/2-A
Matrix: Solid
Analysis Batch: 37034

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1151		mg/Kg		115	70 - 130	3	35
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	1	35
Ethylbenzene	0.100	0.1150		mg/Kg		115	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2445		mg/Kg		122	70 - 130	4	35
o-Xylene	0.100	0.1198		mg/Kg		120	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-20320-1 MS
Matrix: Solid
Analysis Batch: 37034

Client Sample ID: CS-1
Prep Type: Total/NA
Prep Batch: 36970

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.09196		mg/Kg		92	70 - 130
Toluene	<0.00201	U	0.0998	0.09842		mg/Kg		99	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-20320-1 MS
Matrix: Solid
Analysis Batch: 37034

Client Sample ID: CS-1
Prep Type: Total/NA
Prep Batch: 36970

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.1054		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2207		mg/Kg		111	70 - 130
o-Xylene	<0.00201	U	0.0998	0.1082		mg/Kg		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-20320-1 MSD
Matrix: Solid
Analysis Batch: 37034

Client Sample ID: CS-1
Prep Type: Total/NA
Prep Batch: 36970

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.09753		mg/Kg		99	70 - 130	6	35
Toluene	<0.00201	U	0.0990	0.08974		mg/Kg		91	70 - 130	9	35
Ethylbenzene	<0.00201	U	0.0990	0.08961		mg/Kg		91	70 - 130	16	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1829		mg/Kg		92	70 - 130	19	35
o-Xylene	<0.00201	U	0.0990	0.08911		mg/Kg		90	70 - 130	19	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-36971/5-A
Matrix: Solid
Analysis Batch: 37033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/16/22 23:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/16/22 23:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/16/22 23:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/14/22 12:51	10/16/22 23:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/22 12:51	10/16/22 23:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/14/22 12:51	10/16/22 23:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*10/14/22 12:51*	*10/16/22 23:42*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*10/14/22 12:51*	*10/16/22 23:42*	*1*

Lab Sample ID: LCS 880-36971/1-A
Matrix: Solid
Analysis Batch: 37033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09137		mg/Kg		91	70 - 130
Toluene	0.100	0.09558		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.08554		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1691		mg/Kg		85	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-36971/1-A
Matrix: Solid
Analysis Batch: 37033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36971

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.08256		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-36971/2-A
Matrix: Solid
Analysis Batch: 37033

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36971

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09281		mg/Kg		93	70 - 130	2	35
Toluene			0.100	0.09758		mg/Kg		98	70 - 130	2	35
Ethylbenzene			0.100	0.08943		mg/Kg		89	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1800		mg/Kg		90	70 - 130	6	35
o-Xylene			0.100	0.08845		mg/Kg		88	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-3173-A-49-E MS
Matrix: Solid
Analysis Batch: 37033

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 36971

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1 F2	0.100	0.03692	F1	mg/Kg		37	70 - 130		
Toluene	<0.00199	U F1 F2	0.100	0.03998	F1	mg/Kg		40	70 - 130		
Ethylbenzene	<0.00199	U F1 F2	0.100	0.03064	F1	mg/Kg		31	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.06069	F1	mg/Kg		30	70 - 130		
o-Xylene	<0.00199	U F1 F2	0.100	0.03397	F1	mg/Kg		34	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-3173-A-49-F MSD
Matrix: Solid
Analysis Batch: 37033

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 36971

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.0990	0.07387	F2	mg/Kg		75	70 - 130	67	35
Toluene	<0.00199	U F1 F2	0.0990	0.07797	F2	mg/Kg		79	70 - 130	64	35
Ethylbenzene	<0.00199	U F1 F2	0.0990	0.05875	F1 F2	mg/Kg		59	70 - 130	63	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.198	0.1189	F1 F2	mg/Kg		60	70 - 130	65	35
o-Xylene	<0.00199	U F1 F2	0.0990	0.06063	F1 F2	mg/Kg		61	70 - 130	56	35

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3173-A-49-F MSD
Matrix: Solid
Analysis Batch: 37033

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 36971

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-37048/5-A
Matrix: Solid
Analysis Batch: 37045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 08:52	10/17/22 12:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 08:52	10/17/22 12:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 08:52	10/17/22 12:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/17/22 08:52	10/17/22 12:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 08:52	10/17/22 12:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/17/22 08:52	10/17/22 12:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	10/17/22 08:52	10/17/22 12:00	1
1,4-Difluorobenzene (Surr)	110		70 - 130	10/17/22 08:52	10/17/22 12:00	1

Lab Sample ID: LCS 880-37048/1-A
Matrix: Solid
Analysis Batch: 37045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37048

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1049		mg/Kg		105	70 - 130		
Toluene			0.100	0.1048		mg/Kg		105	70 - 130		
Ethylbenzene			0.100	0.09253		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1869		mg/Kg		93	70 - 130		
o-Xylene			0.100	0.09065		mg/Kg		91	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-37048/2-A
Matrix: Solid
Analysis Batch: 37045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37048

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09963		mg/Kg		100	70 - 130	5	35
Toluene			0.100	0.09719		mg/Kg		97	70 - 130	7	35
Ethylbenzene			0.100	0.08715		mg/Kg		87	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1751		mg/Kg		88	70 - 130	7	35
o-Xylene			0.100	0.08443		mg/Kg		84	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-37048/2-A
Matrix: Solid
Analysis Batch: 37045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37048

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-20138-A-14-A MS
Matrix: Solid
Analysis Batch: 37045

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 37048

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.1042		mg/Kg		103	70 - 130
Toluene	<0.00202	U	0.101	0.1006		mg/Kg		100	70 - 130
Ethylbenzene	<0.00202	U	0.101	0.08890		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.202	0.1784		mg/Kg		88	70 - 130
o-Xylene	<0.00202	U	0.101	0.08668		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-20138-A-14-B MSD
Matrix: Solid
Analysis Batch: 37045

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 37048

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0996	0.09366		mg/Kg		94	70 - 130	11	35
Toluene	<0.00202	U	0.0996	0.09504		mg/Kg		95	70 - 130	6	35
Ethylbenzene	<0.00202	U	0.0996	0.08462		mg/Kg		85	70 - 130	5	35
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1710		mg/Kg		86	70 - 130	4	35
o-Xylene	<0.00202	U	0.0996	0.08292		mg/Kg		83	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-36815/1-A
Matrix: Solid
Analysis Batch: 36804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/13/22 08:32	10/13/22 11:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/13/22 08:32	10/13/22 11:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:32	10/13/22 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	10/13/22 08:32	10/13/22 11:31	1
o-Terphenyl	114		70 - 130	10/13/22 08:32	10/13/22 11:31	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-36815/2-A
Matrix: Solid
Analysis Batch: 36804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36815

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1513	*+	mg/Kg		151	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	2126	*+	mg/Kg		213	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*144*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-36815/3-A
Matrix: Solid
Analysis Batch: 36804

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36815

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1341	*+	mg/Kg		134	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1910	*+	mg/Kg		191	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*128*		*70 - 130*

Lab Sample ID: 880-20320-1 MS
Matrix: Solid
Analysis Batch: 36804

Client Sample ID: CS-1
Prep Type: Total/NA
Prep Batch: 36815

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	998	847.8		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U *+	998	1017		mg/Kg		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 880-20320-1 MSD
Matrix: Solid
Analysis Batch: 36804

Client Sample ID: CS-1
Prep Type: Total/NA
Prep Batch: 36815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	998	867.9		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U *+	998	974.1		mg/Kg		98	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*82*		*70 - 130*

QC Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-20320-1 MSD
Matrix: Solid
Analysis Batch: 36804

Client Sample ID: CS-1
Prep Type: Total/NA
Prep Batch: 36815

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	77		70 - 130

Lab Sample ID: MB 880-36816/1-A
Matrix: Solid
Analysis Batch: 36806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36816

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 11:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 11:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/22 08:36	10/13/22 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	10/13/22 08:36	10/13/22 11:31	1
o-Terphenyl	127		70 - 130	10/13/22 08:36	10/13/22 11:31	1

Lab Sample ID: LCS 880-36816/2-A
Matrix: Solid
Analysis Batch: 36806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1072		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1024		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: LCSD 880-36816/3-A
Matrix: Solid
Analysis Batch: 36806

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36816

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1019		mg/Kg		102	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1030		mg/Kg		103	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	122		70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-20320-21 MS
Matrix: Solid
Analysis Batch: 36806

Client Sample ID: CS-21
Prep Type: Total/NA
Prep Batch: 36816

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	829.0		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	615		998	1357		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: 880-20320-21 MSD
Matrix: Solid
Analysis Batch: 36806

Client Sample ID: CS-21
Prep Type: Total/NA
Prep Batch: 36816

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	914.7		mg/Kg		89	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	615		998	1536		mg/Kg		92	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-36872/1-A
Matrix: Solid
Analysis Batch: 36891

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/14/22 21:16	1

Lab Sample ID: LCS 880-36872/2-A
Matrix: Solid
Analysis Batch: 36891

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	291.9	*+	mg/Kg		117	90 - 110

Lab Sample ID: LCSD 880-36872/3-A
Matrix: Solid
Analysis Batch: 36891

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.4		mg/Kg		104	90 - 110	11	20

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-20320-1 MS
Matrix: Solid
Analysis Batch: 36891

Client Sample ID: CS-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	36.0	*+	249	277.5		mg/Kg		97	90 - 110

Lab Sample ID: 880-20320-1 MSD
Matrix: Solid
Analysis Batch: 36891

Client Sample ID: CS-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	36.0	*+	249	297.8		mg/Kg		105	90 - 110	7	20

Lab Sample ID: 880-20320-11 MS
Matrix: Solid
Analysis Batch: 36891

Client Sample ID: CS-11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	43.8	*+	253	319.5		mg/Kg		109	90 - 110

Lab Sample ID: 880-20320-11 MSD
Matrix: Solid
Analysis Batch: 36891

Client Sample ID: CS-11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	43.8	*+	253	321.8		mg/Kg		110	90 - 110	1	20

Lab Sample ID: MB 880-36878/1-A
Matrix: Solid
Analysis Batch: 36948

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/15/22 06:25	1

Lab Sample ID: LCS 880-36878/2-A
Matrix: Solid
Analysis Batch: 36948

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.1		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-36878/3-A
Matrix: Solid
Analysis Batch: 36948

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	269.1		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-20320-21 MS
Matrix: Solid
Analysis Batch: 36948

Client Sample ID: CS-21
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	29.0		250	296.9		mg/Kg		107	90 - 110

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-20320-21 MSD
Matrix: Solid
Analysis Batch: 36948

Client Sample ID: CS-21
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	29.0		250	297.2		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-20320-31 MS
Matrix: Solid
Analysis Batch: 36948

Client Sample ID: SW-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.7		250	284.9		mg/Kg		108	90 - 110

Lab Sample ID: 880-20320-31 MSD
Matrix: Solid
Analysis Batch: 36948

Client Sample ID: SW-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15.7		250	285.5		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

GC VOA

Prep Batch: 36970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-1	CS-1	Total/NA	Solid	5035	
880-20320-2	CS-2	Total/NA	Solid	5035	
880-20320-3	CS-3	Total/NA	Solid	5035	
880-20320-4	CS-4	Total/NA	Solid	5035	
880-20320-5	CS-5	Total/NA	Solid	5035	
880-20320-6	CS-6	Total/NA	Solid	5035	
880-20320-7	CS-7	Total/NA	Solid	5035	
880-20320-8	CS-8	Total/NA	Solid	5035	
880-20320-9	CS-9	Total/NA	Solid	5035	
880-20320-10	CS-10	Total/NA	Solid	5035	
880-20320-11	CS-11	Total/NA	Solid	5035	
880-20320-12	CS-12	Total/NA	Solid	5035	
880-20320-13	CS-13	Total/NA	Solid	5035	
880-20320-14	CS-14	Total/NA	Solid	5035	
880-20320-15	CS-15	Total/NA	Solid	5035	
880-20320-16	CS-16	Total/NA	Solid	5035	
880-20320-17	CS-17	Total/NA	Solid	5035	
880-20320-18	CS-18	Total/NA	Solid	5035	
880-20320-19	CS-19	Total/NA	Solid	5035	
880-20320-20	CS-20	Total/NA	Solid	5035	
MB 880-36970/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36970/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36970/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20320-1 MS	CS-1	Total/NA	Solid	5035	
880-20320-1 MSD	CS-1	Total/NA	Solid	5035	

Prep Batch: 36971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-21	CS-21	Total/NA	Solid	5035	
880-20320-22	CS-22	Total/NA	Solid	5035	
880-20320-23	CS-23	Total/NA	Solid	5035	
880-20320-24	CS-24	Total/NA	Solid	5035	
880-20320-25	CS-25	Total/NA	Solid	5035	
880-20320-26	CS-26	Total/NA	Solid	5035	
880-20320-27	CS-27	Total/NA	Solid	5035	
880-20320-28	CS-28	Total/NA	Solid	5035	
880-20320-29	CS-29	Total/NA	Solid	5035	
880-20320-30	SW-1	Total/NA	Solid	5035	
880-20320-31	SW-2	Total/NA	Solid	5035	
880-20320-32	SW-3	Total/NA	Solid	5035	
880-20320-33	SW-4	Total/NA	Solid	5035	
MB 880-36971/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36971/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36971/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3173-A-49-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3173-A-49-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 37033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-21	CS-21	Total/NA	Solid	8021B	36971
880-20320-22	CS-22	Total/NA	Solid	8021B	36971

QC Association Summary

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

GC VOA (Continued)

Analysis Batch: 37033 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-23	CS-23	Total/NA	Solid	8021B	36971
880-20320-24	CS-24	Total/NA	Solid	8021B	36971
880-20320-25	CS-25	Total/NA	Solid	8021B	36971
880-20320-26	CS-26	Total/NA	Solid	8021B	36971
880-20320-27	CS-27	Total/NA	Solid	8021B	36971
880-20320-28	CS-28	Total/NA	Solid	8021B	36971
880-20320-29	CS-29	Total/NA	Solid	8021B	36971
880-20320-30	SW-1	Total/NA	Solid	8021B	36971
880-20320-31	SW-2	Total/NA	Solid	8021B	36971
880-20320-32	SW-3	Total/NA	Solid	8021B	36971
880-20320-33	SW-4	Total/NA	Solid	8021B	36971
MB 880-36971/5-A	Method Blank	Total/NA	Solid	8021B	36971
LCS 880-36971/1-A	Lab Control Sample	Total/NA	Solid	8021B	36971
LCSD 880-36971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36971
890-3173-A-49-E MS	Matrix Spike	Total/NA	Solid	8021B	36971
890-3173-A-49-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	36971

Analysis Batch: 37034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-1	CS-1	Total/NA	Solid	8021B	36970
880-20320-2	CS-2	Total/NA	Solid	8021B	36970
880-20320-3	CS-3	Total/NA	Solid	8021B	36970
880-20320-4	CS-4	Total/NA	Solid	8021B	36970
880-20320-5	CS-5	Total/NA	Solid	8021B	36970
880-20320-6	CS-6	Total/NA	Solid	8021B	36970
880-20320-7	CS-7	Total/NA	Solid	8021B	36970
880-20320-8	CS-8	Total/NA	Solid	8021B	36970
880-20320-9	CS-9	Total/NA	Solid	8021B	36970
880-20320-10	CS-10	Total/NA	Solid	8021B	36970
880-20320-11	CS-11	Total/NA	Solid	8021B	36970
880-20320-12	CS-12	Total/NA	Solid	8021B	36970
880-20320-13	CS-13	Total/NA	Solid	8021B	36970
880-20320-14	CS-14	Total/NA	Solid	8021B	36970
880-20320-15	CS-15	Total/NA	Solid	8021B	36970
880-20320-16	CS-16	Total/NA	Solid	8021B	36970
880-20320-17	CS-17	Total/NA	Solid	8021B	36970
880-20320-18	CS-18	Total/NA	Solid	8021B	36970
880-20320-19	CS-19	Total/NA	Solid	8021B	36970
880-20320-20	CS-20	Total/NA	Solid	8021B	36970
MB 880-36970/5-A	Method Blank	Total/NA	Solid	8021B	36970
LCS 880-36970/1-A	Lab Control Sample	Total/NA	Solid	8021B	36970
LCSD 880-36970/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36970
880-20320-1 MS	CS-1	Total/NA	Solid	8021B	36970
880-20320-1 MSD	CS-1	Total/NA	Solid	8021B	36970

Analysis Batch: 37045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-15	CS-15	Total/NA	Solid	8021B	37048
MB 880-37048/5-A	Method Blank	Total/NA	Solid	8021B	37048
LCS 880-37048/1-A	Lab Control Sample	Total/NA	Solid	8021B	37048
LCSD 880-37048/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37048

QC Association Summary

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

GC VOA (Continued)

Analysis Batch: 37045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-A-14-A MS	Matrix Spike	Total/NA	Solid	8021B	37048
880-20138-A-14-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	37048

Prep Batch: 37048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-15	CS-15	Total/NA	Solid	5035	
MB 880-37048/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37048/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37048/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20138-A-14-A MS	Matrix Spike	Total/NA	Solid	5035	
880-20138-A-14-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 37125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-1	CS-1	Total/NA	Solid	Total BTEX	
880-20320-2	CS-2	Total/NA	Solid	Total BTEX	
880-20320-3	CS-3	Total/NA	Solid	Total BTEX	
880-20320-4	CS-4	Total/NA	Solid	Total BTEX	
880-20320-5	CS-5	Total/NA	Solid	Total BTEX	
880-20320-6	CS-6	Total/NA	Solid	Total BTEX	
880-20320-7	CS-7	Total/NA	Solid	Total BTEX	
880-20320-8	CS-8	Total/NA	Solid	Total BTEX	
880-20320-9	CS-9	Total/NA	Solid	Total BTEX	
880-20320-10	CS-10	Total/NA	Solid	Total BTEX	
880-20320-11	CS-11	Total/NA	Solid	Total BTEX	
880-20320-12	CS-12	Total/NA	Solid	Total BTEX	
880-20320-13	CS-13	Total/NA	Solid	Total BTEX	
880-20320-14	CS-14	Total/NA	Solid	Total BTEX	
880-20320-15	CS-15	Total/NA	Solid	Total BTEX	
880-20320-16	CS-16	Total/NA	Solid	Total BTEX	
880-20320-17	CS-17	Total/NA	Solid	Total BTEX	
880-20320-18	CS-18	Total/NA	Solid	Total BTEX	
880-20320-19	CS-19	Total/NA	Solid	Total BTEX	
880-20320-20	CS-20	Total/NA	Solid	Total BTEX	
880-20320-21	CS-21	Total/NA	Solid	Total BTEX	
880-20320-22	CS-22	Total/NA	Solid	Total BTEX	
880-20320-23	CS-23	Total/NA	Solid	Total BTEX	
880-20320-24	CS-24	Total/NA	Solid	Total BTEX	
880-20320-25	CS-25	Total/NA	Solid	Total BTEX	
880-20320-26	CS-26	Total/NA	Solid	Total BTEX	
880-20320-27	CS-27	Total/NA	Solid	Total BTEX	
880-20320-28	CS-28	Total/NA	Solid	Total BTEX	
880-20320-29	CS-29	Total/NA	Solid	Total BTEX	
880-20320-30	SW-1	Total/NA	Solid	Total BTEX	
880-20320-31	SW-2	Total/NA	Solid	Total BTEX	
880-20320-32	SW-3	Total/NA	Solid	Total BTEX	
880-20320-33	SW-4	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

GC Semi VOA

Analysis Batch: 36804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-1	CS-1	Total/NA	Solid	8015B NM	36815
880-20320-2	CS-2	Total/NA	Solid	8015B NM	36815
880-20320-3	CS-3	Total/NA	Solid	8015B NM	36815
880-20320-4	CS-4	Total/NA	Solid	8015B NM	36815
880-20320-5	CS-5	Total/NA	Solid	8015B NM	36815
880-20320-6	CS-6	Total/NA	Solid	8015B NM	36815
880-20320-7	CS-7	Total/NA	Solid	8015B NM	36815
880-20320-8	CS-8	Total/NA	Solid	8015B NM	36815
880-20320-9	CS-9	Total/NA	Solid	8015B NM	36815
880-20320-10	CS-10	Total/NA	Solid	8015B NM	36815
880-20320-11	CS-11	Total/NA	Solid	8015B NM	36815
880-20320-12	CS-12	Total/NA	Solid	8015B NM	36815
880-20320-13	CS-13	Total/NA	Solid	8015B NM	36815
880-20320-14	CS-14	Total/NA	Solid	8015B NM	36815
880-20320-15	CS-15	Total/NA	Solid	8015B NM	36815
880-20320-16	CS-16	Total/NA	Solid	8015B NM	36815
880-20320-17	CS-17	Total/NA	Solid	8015B NM	36815
880-20320-18	CS-18	Total/NA	Solid	8015B NM	36815
880-20320-19	CS-19	Total/NA	Solid	8015B NM	36815
880-20320-20	CS-20	Total/NA	Solid	8015B NM	36815
MB 880-36815/1-A	Method Blank	Total/NA	Solid	8015B NM	36815
LCS 880-36815/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36815
LCSD 880-36815/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36815
880-20320-1 MS	CS-1	Total/NA	Solid	8015B NM	36815
880-20320-1 MSD	CS-1	Total/NA	Solid	8015B NM	36815

Analysis Batch: 36806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-21	CS-21	Total/NA	Solid	8015B NM	36816
880-20320-22	CS-22	Total/NA	Solid	8015B NM	36816
880-20320-23	CS-23	Total/NA	Solid	8015B NM	36816
880-20320-24	CS-24	Total/NA	Solid	8015B NM	36816
880-20320-25	CS-25	Total/NA	Solid	8015B NM	36816
880-20320-26	CS-26	Total/NA	Solid	8015B NM	36816
880-20320-27	CS-27	Total/NA	Solid	8015B NM	36816
880-20320-28	CS-28	Total/NA	Solid	8015B NM	36816
880-20320-29	CS-29	Total/NA	Solid	8015B NM	36816
880-20320-30	SW-1	Total/NA	Solid	8015B NM	36816
880-20320-31	SW-2	Total/NA	Solid	8015B NM	36816
880-20320-32	SW-3	Total/NA	Solid	8015B NM	36816
880-20320-33	SW-4	Total/NA	Solid	8015B NM	36816
MB 880-36816/1-A	Method Blank	Total/NA	Solid	8015B NM	36816
LCS 880-36816/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36816
LCSD 880-36816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36816
880-20320-21 MS	CS-21	Total/NA	Solid	8015B NM	36816
880-20320-21 MSD	CS-21	Total/NA	Solid	8015B NM	36816

Prep Batch: 36815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-1	CS-1	Total/NA	Solid	8015NM Prep	
880-20320-2	CS-2	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

GC Semi VOA (Continued)

Prep Batch: 36815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-3	CS-3	Total/NA	Solid	8015NM Prep	
880-20320-4	CS-4	Total/NA	Solid	8015NM Prep	
880-20320-5	CS-5	Total/NA	Solid	8015NM Prep	
880-20320-6	CS-6	Total/NA	Solid	8015NM Prep	
880-20320-7	CS-7	Total/NA	Solid	8015NM Prep	
880-20320-8	CS-8	Total/NA	Solid	8015NM Prep	
880-20320-9	CS-9	Total/NA	Solid	8015NM Prep	
880-20320-10	CS-10	Total/NA	Solid	8015NM Prep	
880-20320-11	CS-11	Total/NA	Solid	8015NM Prep	
880-20320-12	CS-12	Total/NA	Solid	8015NM Prep	
880-20320-13	CS-13	Total/NA	Solid	8015NM Prep	
880-20320-14	CS-14	Total/NA	Solid	8015NM Prep	
880-20320-15	CS-15	Total/NA	Solid	8015NM Prep	
880-20320-16	CS-16	Total/NA	Solid	8015NM Prep	
880-20320-17	CS-17	Total/NA	Solid	8015NM Prep	
880-20320-18	CS-18	Total/NA	Solid	8015NM Prep	
880-20320-19	CS-19	Total/NA	Solid	8015NM Prep	
880-20320-20	CS-20	Total/NA	Solid	8015NM Prep	
MB 880-36815/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36815/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36815/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20320-1 MS	CS-1	Total/NA	Solid	8015NM Prep	
880-20320-1 MSD	CS-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 36816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-21	CS-21	Total/NA	Solid	8015NM Prep	
880-20320-22	CS-22	Total/NA	Solid	8015NM Prep	
880-20320-23	CS-23	Total/NA	Solid	8015NM Prep	
880-20320-24	CS-24	Total/NA	Solid	8015NM Prep	
880-20320-25	CS-25	Total/NA	Solid	8015NM Prep	
880-20320-26	CS-26	Total/NA	Solid	8015NM Prep	
880-20320-27	CS-27	Total/NA	Solid	8015NM Prep	
880-20320-28	CS-28	Total/NA	Solid	8015NM Prep	
880-20320-29	CS-29	Total/NA	Solid	8015NM Prep	
880-20320-30	SW-1	Total/NA	Solid	8015NM Prep	
880-20320-31	SW-2	Total/NA	Solid	8015NM Prep	
880-20320-32	SW-3	Total/NA	Solid	8015NM Prep	
880-20320-33	SW-4	Total/NA	Solid	8015NM Prep	
MB 880-36816/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36816/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20320-21 MS	CS-21	Total/NA	Solid	8015NM Prep	
880-20320-21 MSD	CS-21	Total/NA	Solid	8015NM Prep	

Analysis Batch: 36944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-1	CS-1	Total/NA	Solid	8015 NM	
880-20320-2	CS-2	Total/NA	Solid	8015 NM	
880-20320-3	CS-3	Total/NA	Solid	8015 NM	
880-20320-4	CS-4	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

GC Semi VOA (Continued)

Analysis Batch: 36944 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-5	CS-5	Total/NA	Solid	8015 NM	
880-20320-6	CS-6	Total/NA	Solid	8015 NM	
880-20320-7	CS-7	Total/NA	Solid	8015 NM	
880-20320-8	CS-8	Total/NA	Solid	8015 NM	
880-20320-9	CS-9	Total/NA	Solid	8015 NM	
880-20320-10	CS-10	Total/NA	Solid	8015 NM	
880-20320-11	CS-11	Total/NA	Solid	8015 NM	
880-20320-12	CS-12	Total/NA	Solid	8015 NM	
880-20320-13	CS-13	Total/NA	Solid	8015 NM	
880-20320-14	CS-14	Total/NA	Solid	8015 NM	
880-20320-15	CS-15	Total/NA	Solid	8015 NM	
880-20320-16	CS-16	Total/NA	Solid	8015 NM	
880-20320-17	CS-17	Total/NA	Solid	8015 NM	
880-20320-18	CS-18	Total/NA	Solid	8015 NM	
880-20320-19	CS-19	Total/NA	Solid	8015 NM	
880-20320-20	CS-20	Total/NA	Solid	8015 NM	
880-20320-21	CS-21	Total/NA	Solid	8015 NM	
880-20320-22	CS-22	Total/NA	Solid	8015 NM	
880-20320-23	CS-23	Total/NA	Solid	8015 NM	
880-20320-24	CS-24	Total/NA	Solid	8015 NM	
880-20320-25	CS-25	Total/NA	Solid	8015 NM	
880-20320-26	CS-26	Total/NA	Solid	8015 NM	
880-20320-27	CS-27	Total/NA	Solid	8015 NM	
880-20320-28	CS-28	Total/NA	Solid	8015 NM	
880-20320-29	CS-29	Total/NA	Solid	8015 NM	
880-20320-30	SW-1	Total/NA	Solid	8015 NM	
880-20320-31	SW-2	Total/NA	Solid	8015 NM	
880-20320-32	SW-3	Total/NA	Solid	8015 NM	
880-20320-33	SW-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 36872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-1	CS-1	Soluble	Solid	DI Leach	
880-20320-2	CS-2	Soluble	Solid	DI Leach	
880-20320-3	CS-3	Soluble	Solid	DI Leach	
880-20320-4	CS-4	Soluble	Solid	DI Leach	
880-20320-5	CS-5	Soluble	Solid	DI Leach	
880-20320-6	CS-6	Soluble	Solid	DI Leach	
880-20320-7	CS-7	Soluble	Solid	DI Leach	
880-20320-8	CS-8	Soluble	Solid	DI Leach	
880-20320-9	CS-9	Soluble	Solid	DI Leach	
880-20320-10	CS-10	Soluble	Solid	DI Leach	
880-20320-11	CS-11	Soluble	Solid	DI Leach	
880-20320-12	CS-12	Soluble	Solid	DI Leach	
880-20320-13	CS-13	Soluble	Solid	DI Leach	
880-20320-14	CS-14	Soluble	Solid	DI Leach	
880-20320-15	CS-15	Soluble	Solid	DI Leach	
880-20320-16	CS-16	Soluble	Solid	DI Leach	
880-20320-17	CS-17	Soluble	Solid	DI Leach	

QC Association Summary

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

HPLC/IC (Continued)

Leach Batch: 36872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-18	CS-18	Soluble	Solid	DI Leach	
880-20320-19	CS-19	Soluble	Solid	DI Leach	
880-20320-20	CS-20	Soluble	Solid	DI Leach	
MB 880-36872/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36872/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36872/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20320-1 MS	CS-1	Soluble	Solid	DI Leach	
880-20320-1 MSD	CS-1	Soluble	Solid	DI Leach	
880-20320-11 MS	CS-11	Soluble	Solid	DI Leach	
880-20320-11 MSD	CS-11	Soluble	Solid	DI Leach	

Leach Batch: 36878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-21	CS-21	Soluble	Solid	DI Leach	
880-20320-22	CS-22	Soluble	Solid	DI Leach	
880-20320-23	CS-23	Soluble	Solid	DI Leach	
880-20320-24	CS-24	Soluble	Solid	DI Leach	
880-20320-25	CS-25	Soluble	Solid	DI Leach	
880-20320-26	CS-26	Soluble	Solid	DI Leach	
880-20320-27	CS-27	Soluble	Solid	DI Leach	
880-20320-28	CS-28	Soluble	Solid	DI Leach	
880-20320-29	CS-29	Soluble	Solid	DI Leach	
880-20320-30	SW-1	Soluble	Solid	DI Leach	
880-20320-31	SW-2	Soluble	Solid	DI Leach	
880-20320-32	SW-3	Soluble	Solid	DI Leach	
880-20320-33	SW-4	Soluble	Solid	DI Leach	
MB 880-36878/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36878/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36878/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20320-21 MS	CS-21	Soluble	Solid	DI Leach	
880-20320-21 MSD	CS-21	Soluble	Solid	DI Leach	
880-20320-31 MS	SW-2	Soluble	Solid	DI Leach	
880-20320-31 MSD	SW-2	Soluble	Solid	DI Leach	

Analysis Batch: 36891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-1	CS-1	Soluble	Solid	300.0	36872
880-20320-2	CS-2	Soluble	Solid	300.0	36872
880-20320-3	CS-3	Soluble	Solid	300.0	36872
880-20320-4	CS-4	Soluble	Solid	300.0	36872
880-20320-5	CS-5	Soluble	Solid	300.0	36872
880-20320-6	CS-6	Soluble	Solid	300.0	36872
880-20320-7	CS-7	Soluble	Solid	300.0	36872
880-20320-8	CS-8	Soluble	Solid	300.0	36872
880-20320-9	CS-9	Soluble	Solid	300.0	36872
880-20320-10	CS-10	Soluble	Solid	300.0	36872
880-20320-11	CS-11	Soluble	Solid	300.0	36872
880-20320-12	CS-12	Soluble	Solid	300.0	36872
880-20320-13	CS-13	Soluble	Solid	300.0	36872
880-20320-14	CS-14	Soluble	Solid	300.0	36872
880-20320-15	CS-15	Soluble	Solid	300.0	36872

QC Association Summary

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

HPLC/IC (Continued)

Analysis Batch: 36891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-16	CS-16	Soluble	Solid	300.0	36872
880-20320-17	CS-17	Soluble	Solid	300.0	36872
880-20320-18	CS-18	Soluble	Solid	300.0	36872
880-20320-19	CS-19	Soluble	Solid	300.0	36872
880-20320-20	CS-20	Soluble	Solid	300.0	36872
MB 880-36872/1-A	Method Blank	Soluble	Solid	300.0	36872
LCS 880-36872/2-A	Lab Control Sample	Soluble	Solid	300.0	36872
LCSD 880-36872/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36872
880-20320-1 MS	CS-1	Soluble	Solid	300.0	36872
880-20320-1 MSD	CS-1	Soluble	Solid	300.0	36872
880-20320-11 MS	CS-11	Soluble	Solid	300.0	36872
880-20320-11 MSD	CS-11	Soluble	Solid	300.0	36872

Analysis Batch: 36948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20320-21	CS-21	Soluble	Solid	300.0	36878
880-20320-22	CS-22	Soluble	Solid	300.0	36878
880-20320-23	CS-23	Soluble	Solid	300.0	36878
880-20320-24	CS-24	Soluble	Solid	300.0	36878
880-20320-25	CS-25	Soluble	Solid	300.0	36878
880-20320-26	CS-26	Soluble	Solid	300.0	36878
880-20320-27	CS-27	Soluble	Solid	300.0	36878
880-20320-28	CS-28	Soluble	Solid	300.0	36878
880-20320-29	CS-29	Soluble	Solid	300.0	36878
880-20320-30	SW-1	Soluble	Solid	300.0	36878
880-20320-31	SW-2	Soluble	Solid	300.0	36878
880-20320-32	SW-3	Soluble	Solid	300.0	36878
880-20320-33	SW-4	Soluble	Solid	300.0	36878
MB 880-36878/1-A	Method Blank	Soluble	Solid	300.0	36878
LCS 880-36878/2-A	Lab Control Sample	Soluble	Solid	300.0	36878
LCSD 880-36878/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36878
880-20320-21 MS	CS-21	Soluble	Solid	300.0	36878
880-20320-21 MSD	CS-21	Soluble	Solid	300.0	36878
880-20320-31 MS	SW-2	Soluble	Solid	300.0	36878
880-20320-31 MSD	SW-2	Soluble	Solid	300.0	36878

Lab Chronicle

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-1
Lab Sample ID: 880-20320-1
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 17:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 12:36	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 21:32	CH	EET MID

Client Sample ID: CS-2
Lab Sample ID: 880-20320-2
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 13:39	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 21:47	CH	EET MID

Client Sample ID: CS-3
Lab Sample ID: 880-20320-3
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 17:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 14:00	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 21:52	CH	EET MID

Client Sample ID: CS-4
Lab Sample ID: 880-20320-4
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Client Sample ID: CS-4
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 14:22	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 21:57	CH	EET MID

Client Sample ID: CS-5
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 18:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 14:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 22:02	CH	EET MID

Client Sample ID: CS-6
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 15:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 22:18	CH	EET MID

Client Sample ID: CS-7
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 19:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 15:26	SM	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Client Sample ID: CS-7
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 22:23	CH	EET MID

Client Sample ID: CS-8
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 15:47	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 22:28	CH	EET MID

Client Sample ID: CS-9
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 19:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 16:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 22:33	CH	EET MID

Client Sample ID: CS-10
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 20:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 16:30	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 22:38	CH	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-11
Lab Sample ID: 880-20320-11
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 21:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 17:13	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	36891	10/14/22 22:43	CH	EET MID

Client Sample ID: CS-12
Lab Sample ID: 880-20320-12
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 22:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 17:34	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 22:59	CH	EET MID

Client Sample ID: CS-13
Lab Sample ID: 880-20320-13
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 22:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 17:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 23:04	CH	EET MID

Client Sample ID: CS-14
Lab Sample ID: 880-20320-14
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 22:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Job ID: 880-20320-1
Project/Site: CTB 145

Client Sample ID: CS-14
Lab Sample ID: 880-20320-14
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 18:17	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 23:19	CH	EET MID

Client Sample ID: CS-15
Lab Sample ID: 880-20320-15
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	37048	10/17/22 08:52	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	37045	10/17/22 14:51	MNR	EET MID
Total/NA	Prep	5035			4.97 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 23:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 18:39	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 23:24	CH	EET MID

Client Sample ID: CS-16
Lab Sample ID: 880-20320-16
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 23:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 19:01	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 23:30	CH	EET MID

Client Sample ID: CS-17
Lab Sample ID: 880-20320-17
Date Collected: 10/12/22 00:00
Matrix: Solid
Date Received: 10/12/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/16/22 23:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Client Sample ID: CS-17
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 19:22	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 23:35	CH	EET MID

Client Sample ID: CS-18
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/17/22 00:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 19:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 23:40	CH	EET MID

Client Sample ID: CS-19
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/17/22 00:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 20:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 23:45	CH	EET MID

Client Sample ID: CS-20
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36970	10/14/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37034	10/17/22 00:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36815	10/13/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36804	10/13/22 20:26	SM	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Client Sample ID: CS-20
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	36872	10/13/22 11:46	SMC	EET MID
Soluble	Analysis	300.0		1			36891	10/14/22 23:50	CH	EET MID

Client Sample ID: CS-21
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 00:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 12:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 06:39	CH	EET MID

Client Sample ID: CS-22
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 00:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 13:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 06:54	CH	EET MID

Client Sample ID: CS-23
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 00:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 14:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 06:58	CH	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Client Sample ID: CS-24
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 01:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 14:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 07:03	CH	EET MID

Client Sample ID: CS-25
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 01:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 14:43	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 07:08	CH	EET MID

Client Sample ID: CS-26
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 01:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 15:04	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 07:23	CH	EET MID

Client Sample ID: CS-27
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 02:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Client Sample ID: CS-27
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 15:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 07:28	CH	EET MID

Client Sample ID: CS-28
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 02:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 15:47	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 07:32	CH	EET MID

Client Sample ID: CS-29
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 02:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 16:08	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 07:37	CH	EET MID

Client Sample ID: SW-1
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 03:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 16:30	SM	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Client Sample ID: SW-1
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 07:42	CH	EET MID

Client Sample ID: SW-2
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 05:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 17:13	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 07:47	CH	EET MID

Client Sample ID: SW-3
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 05:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 17:34	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 08:02	CH	EET MID

Client Sample ID: SW-4
Date Collected: 10/12/22 00:00
Date Received: 10/12/22 17:02

Lab Sample ID: 880-20320-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36971	10/14/22 12:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37033	10/17/22 05:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37125	10/17/22 10:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36944	10/14/22 10:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36816	10/13/22 08:36	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36806	10/13/22 17:56	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36878	10/13/22 11:53	SMC	EET MID
Soluble	Analysis	300.0		1			36948	10/15/22 08:06	CH	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration Job ID: 880-20320-1
Project/Site: CTB 145

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-20320-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-20320-1	CS-1	Solid	10/12/22 00:00	10/12/22 17:02	1 - 1.5
880-20320-2	CS-2	Solid	10/12/22 00:00	10/12/22 17:02	1 - 1.5
880-20320-3	CS-3	Solid	10/12/22 00:00	10/12/22 17:02	1 - 1.5
880-20320-4	CS-4	Solid	10/12/22 00:00	10/12/22 17:02	1 - 1.5
880-20320-5	CS-5	Solid	10/12/22 00:00	10/12/22 17:02	1 - 1.5
880-20320-6	CS-6	Solid	10/12/22 00:00	10/12/22 17:02	0 - 0.5
880-20320-7	CS-7	Solid	10/12/22 00:00	10/12/22 17:02	1.5 - 2
880-20320-8	CS-8	Solid	10/12/22 00:00	10/12/22 17:02	1.5 - 2
880-20320-9	CS-9	Solid	10/12/22 00:00	10/12/22 17:02	4 - 4.5
880-20320-10	CS-10	Solid	10/12/22 00:00	10/12/22 17:02	4 - 4.5
880-20320-11	CS-11	Solid	10/12/22 00:00	10/12/22 17:02	1.5 - 2
880-20320-12	CS-12	Solid	10/12/22 00:00	10/12/22 17:02	1.5 - 2
880-20320-13	CS-13	Solid	10/12/22 00:00	10/12/22 17:02	4 - 4.5
880-20320-14	CS-14	Solid	10/12/22 00:00	10/12/22 17:02	4 - 4.5
880-20320-15	CS-15	Solid	10/12/22 00:00	10/12/22 17:02	10 - 10.5
880-20320-16	CS-16	Solid	10/12/22 00:00	10/12/22 17:02	5.5 - 6
880-20320-17	CS-17	Solid	10/12/22 00:00	10/12/22 17:02	4 - 4.5
880-20320-18	CS-18	Solid	10/12/22 00:00	10/12/22 17:02	1 - 1.5
880-20320-19	CS-19	Solid	10/12/22 00:00	10/12/22 17:02	2 - 2.5
880-20320-20	CS-20	Solid	10/12/22 00:00	10/12/22 17:02	2 - 2.5
880-20320-21	CS-21	Solid	10/12/22 00:00	10/12/22 17:02	2 - 2.5
880-20320-22	CS-22	Solid	10/12/22 00:00	10/12/22 17:02	2 - 2.5
880-20320-23	CS-23	Solid	10/12/22 00:00	10/12/22 17:02	2 - 2.5
880-20320-24	CS-24	Solid	10/12/22 00:00	10/12/22 17:02	2 - 2.5
880-20320-25	CS-25	Solid	10/12/22 00:00	10/12/22 17:02	2 - 2.5
880-20320-26	CS-26	Solid	10/12/22 00:00	10/12/22 17:02	2 - 2.5
880-20320-27	CS-27	Solid	10/12/22 00:00	10/12/22 17:02	2 - 2.5
880-20320-28	CS-28	Solid	10/12/22 00:00	10/12/22 17:02	1 - 1.5
880-20320-29	CS-29	Solid	10/12/22 00:00	10/12/22 17:02	1 - 1.5
880-20320-30	SW-1	Solid	10/12/22 00:00	10/12/22 17:02	0.5
880-20320-31	SW-2	Solid	10/12/22 00:00	10/12/22 17:02	0.5
880-20320-32	SW-3	Solid	10/12/22 00:00	10/12/22 17:02	2
880-20320-33	SW-4	Solid	10/12/22 00:00	10/12/22 17:02	0.5

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Chain of Custody

Houston, TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 20320

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Project Manager	Tom Carlson	Bill to (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	Tcarlson@earthsys net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	CTB 145	Turn Around	☐ Routine ☑ Rush
Project Number	1284	Due Date	3 Day
Project Location		TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name	Tom Carlson		
PO #:			

SAMPLE RECEIPT				
Temp Blank.	Yes (No)	Wet Ice	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID	188	
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	20	
Sample Custody Seals	Yes No (N/A)	Temperature Reading.	5.7	
Total Containers		Corrected Temperature	5.9	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides	TPH 8015	BTEX 8021
CS-1	S	10/12/2022		1 - 1 5	Comp	1	X	X	X
CS-2	S	10/12/2022		1 - 1 5	Comp	1	X	X	X
CS-3	S	10/12/2022		1 - 1 5	Comp	1	X	X	X
CS-4	S	10/12/2022		1 - 1 5	Comp	1	X	X	X
CS-5	S	10/12/2022		1 - 1 5	Comp	1	X	X	X
CS-6	S	10/12/2022		0 - 0 5	Comp	1	X	X	X
CS-7	S	10/12/2022		1 5 - 2	Comp	1	X	X	X
CS-8	S	10/12/2022		1 5 - 2	Comp	1	X	X	X
CS-9	S	10/12/2022		4 - 4 5	Comp	1	X	X	X
CS-10	S	10/12/2022		4 - 4 5	Comp	1	X	X	X

880-20320 Chain of Custody

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2S0_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

	Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1			10/12/22 1702	2		
3				4		
5				6		

Revised Date 08/25/2020 Rev 2020.2

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Chain of Custody

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Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 20320

www.xenco.com Page 2 of 4

Project Manager	Tom Carlson	Bill to (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	Tcarlson@earthsys net

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	CTB 145	Turn Around	☐ Routine ☑ Rush
Project Number	1284	Due Date	3 Day
Project Location		TAT starts the day received by the lab, if received by 4 30pm	
Sampler's Name	Tom Carlson		
PO #:			

SAMPLE RECEIPT				
Samples Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers.		Corrected Temperature		

Temp Blank: Yes No | Wet Ice: Yes No

Preservative Codes

None. NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides	TPH 8015	BTEX 8021	Sample Comments
CS-11	S	10/12/2022		1 5 - 2	Comp	1	X	X	X	
CS-12	S	10/12/2022		1 5 - 2	Comp	1	X	X	X	
CS-13	S	10/12/2022		4 - 4 5	Comp	1	X	X	X	
CS-14	S	10/12/2022		4 - 4 5	Comp	1	X	X	X	
CS-15	S	10/12/2022		10-10 5	Comp	1	X	X	X	
CS-16	S	10/12/2022		5 5 - 6	Comp	1	X	X	X	
CS-17	S	10/12/2022		4 - 4 5	Comp	1	X	X	X	
CS-18	S	10/12/2022		1 - 1 5	Comp	1	X	X	X	
CS-19	S	10/12/2022		2 - 2 5	Comp	1	X	X	X	
CS-20	S	10/12/2022		2 - 2 5	Comp	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		10/12/22 1702	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

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Work Order No: 20320

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Project Manager	Tom Carlson	Bill to (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	Tcarlson@earthsys net

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	CTB 145	Turn Around	
Project Number	1284	☐ Routine ☑ Rush	
Project Location		Due Date	3 Day
Sampler's Name	Tom Carlson	TAT starts the day received by the lab if received by 4 30pm	
PO #			

SAMPLE RECEIPT	Temp Blank	Yes No	Wet Ice	Yes No
Samples Received Intact:	Yes No		Thermometer ID	
Cooler Custody Seals.	Yes No N/A		Correction Factor	
Sample Custody Seals	Yes No N/A		Temperature Reading	
Total Containers.			Corrected Temperature	

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides	TPH 8015	BTEX 8021	Sample Comments
CS-21	S	10/12/2022		2 - 2.5	Comp	1	X	X	X	
CS-22	S	10/12/2022		2 - 2.5	Comp	1	X	X	X	
CS-23	S	10/12/2022		2 - 2.5	Comp	1	X	X	X	
CS-24	S	10/12/2022		2 - 2.5	Comp	1	X	X	X	
CS-25	S	10/12/2022		2 - 2.5	Comp	1	X	X	X	
CS-26	S	10/12/2022		2 - 2.5	Comp	1	X	X	X	
CS-27	S	10/12/2022		2 - 2.5	Comp	1	X	X	X	
CS-28	S	10/12/2022		1 - 1.5	Comp	1	X	X	X	
CS-29	S	10/12/2022		1 - 1.5	Comp	1	X	X	X	
SW-1	S	10/12/2022		0.5	Comp	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245.1 / 7470 / 7471

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		10/12/22	2		
3		1702	4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

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Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 26320

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Project Manager	Tom Carlson	Bill to (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	Tcarlson@earthsys.net

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project.
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	CTB 145	Turn Around	☐ Routine ☑ Rush
Project Number	1284	Due Date	3 Day
Project Location		TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name	Tom Carlson		
PO #			

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice	Yes No	
Samples Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers.		Corrected Temperature		

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2S0_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides	TPH 8015	BTEX 8021	Sample Comments
SW-2	S	10/12/2022		0 5	Comp	1	X	X	X	
SW-3	S	10/12/2022		2	Comp	1	X	X	X	
SW-4	S	10/12/2022		0 5	Comp	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by (Signature)	Date/Time
1		10/12/22	2		
3		1702	4		
5			6		

Revised Date. 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-20320-1
SDG Number:

Login Number: 20320
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

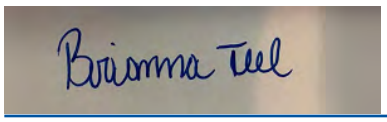
ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-21015-1
Client Project/Site: CTB 145
Revision: 1

For:
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Attn: Kris Williams



Authorized for release by:
11/4/2022 8:15:32 AM

Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Laboratory Job ID: 880-21015-1

Table of Contents

Definitions/Glossary

Client: Earth Systems Response and Restoration Job ID: 880-21015-1
Project/Site: CTB 145

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-21015-1

Job ID: 880-21015-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-21015-1

REVISION

The report being provided is a revision of the original report sent on 11/3/2022. The report (revision 1) is being revised due to Per client email to change sample names to (SW-5,SW-6 and SW-7).

Report revision history

Receipt
The samples were received on 11/1/2022 3:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.3°C

Receipt Exceptions
The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-38420 and analytical batch 880-38442 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-15 (880-21015-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-38436/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-38436 and analytical batch 880-38457 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-38436 and analytical batch 880-38457 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-21015-1
Project/Site: CTB 145

Client Sample ID: CS-15
Lab Sample ID: 880-21015-1
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24
Sample Depth: 10 - 10.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.295		0.0998		mg/Kg		11/01/22 17:00	11/03/22 01:18	50
Toluene	1.31		0.0998		mg/Kg		11/01/22 17:00	11/03/22 01:18	50
Ethylbenzene	2.30		0.0998		mg/Kg		11/01/22 17:00	11/03/22 01:18	50
m-Xylene & p-Xylene	10.6		0.200		mg/Kg		11/01/22 17:00	11/03/22 01:18	50
o-Xylene	3.22		0.0998		mg/Kg		11/01/22 17:00	11/03/22 01:18	50
Xylenes, Total	13.8		0.200		mg/Kg		11/01/22 17:00	11/03/22 01:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*195*	*S1+*	*70 - 130*	*11/01/22 17:00*	*11/03/22 01:18*	*50*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/01/22 17:00*	*11/03/22 01:18*	*50*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	17.7		0.200		mg/Kg			11/03/22 16:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3170		50.0		mg/Kg			11/03/22 10:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	532		50.0		mg/Kg		11/01/22 16:40	11/02/22 23:07	1
Diesel Range Organics (Over C10-C28)	2380	F1	50.0		mg/Kg		11/01/22 16:40	11/02/22 23:07	1
Oil Range Organics (Over C28-C36)	260		50.0		mg/Kg		11/01/22 16:40	11/02/22 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*11/01/22 16:40*	*11/02/22 23:07*	*1*
o-Terphenyl	*109*		*70 - 130*	*11/01/22 16:40*	*11/02/22 23:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.0		4.98		mg/Kg			11/02/22 12:19	1

Client Sample ID: CS-15
Lab Sample ID: 880-21015-2
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24
Sample Depth: 10.5 - 11

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/22 17:00	11/02/22 22:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/22 17:00	11/02/22 22:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/22 17:00	11/02/22 22:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/22 17:00	11/02/22 22:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/22 17:00	11/02/22 22:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/22 17:00	11/02/22 22:54	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-21015-1
Project/Site: CTB 145

Client Sample ID: CS-15
Lab Sample ID: 880-21015-2
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24
Sample Depth: 10.5 - 11

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/01/22 17:00*	*11/02/22 22:54*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*11/01/22 17:00*	*11/02/22 22:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/03/22 16:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/03/22 10:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/01/22 16:40	11/03/22 00:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/01/22 16:40	11/03/22 00:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/01/22 16:40	11/03/22 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*11/01/22 16:40*	*11/03/22 00:11*	*1*
o-Terphenyl	*111*		*70 - 130*	*11/01/22 16:40*	*11/03/22 00:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.6**		4.97		mg/Kg			11/02/22 12:24	1

Client Sample ID: CS-15
Lab Sample ID: 880-21015-3
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24
Sample Depth: 11.5 - 12

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/22 17:00	11/02/22 23:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/22 17:00	11/02/22 23:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/22 17:00	11/02/22 23:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/22 17:00	11/02/22 23:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/22 17:00	11/02/22 23:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/22 17:00	11/02/22 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/01/22 17:00*	*11/02/22 23:15*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*11/01/22 17:00*	*11/02/22 23:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/03/22 16:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/03/22 10:18	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-21015-1
Project/Site: CTB 145

Client Sample ID: CS-15
Lab Sample ID: 880-21015-3
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24
Sample Depth: 11.5 - 12

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/01/22 16:40	11/03/22 00:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/01/22 16:40	11/03/22 00:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/01/22 16:40	11/03/22 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*11/01/22 16:40*	*11/03/22 00:33*	*1*
o-Terphenyl	*117*		*70 - 130*	*11/01/22 16:40*	*11/03/22 00:33*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.3**		4.99		mg/Kg			11/02/22 13:01	1

Client Sample ID: CS-15
Lab Sample ID: 880-21015-4
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24
Sample Depth: 12.5 - 13

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/22 17:00	11/02/22 23:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/22 17:00	11/02/22 23:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/22 17:00	11/02/22 23:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/22 17:00	11/02/22 23:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/22 17:00	11/02/22 23:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/22 17:00	11/02/22 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*11/01/22 17:00*	*11/02/22 23:35*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/01/22 17:00*	*11/02/22 23:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/03/22 16:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**77.1**		50.0		mg/Kg			11/03/22 10:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/01/22 16:40	11/03/22 00:54	1
Diesel Range Organics (Over C10-C28)	**77.1**		50.0		mg/Kg		11/01/22 16:40	11/03/22 00:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/01/22 16:40	11/03/22 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*11/01/22 16:40*	*11/03/22 00:54*	*1*
o-Terphenyl	*115*		*70 - 130*	*11/01/22 16:40*	*11/03/22 00:54*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-21015-1
Project/Site: CTB 145

Client Sample ID: CS-15
Lab Sample ID: 880-21015-4
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24
Sample Depth: 12.5 - 13

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.9**		5.00		mg/Kg			11/02/22 13:06	1

Client Sample ID: SW-5
Lab Sample ID: 880-21015-5
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24
Sample Depth: 6'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/22 17:00	11/02/22 23:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/22 17:00	11/02/22 23:56	1
Ethylbenzene	**0.00233**		0.00201		mg/Kg		11/01/22 17:00	11/02/22 23:56	1
m-Xylene & p-Xylene	**0.00750**		0.00402		mg/Kg		11/01/22 17:00	11/02/22 23:56	1
o-Xylene	**0.00351**		0.00201		mg/Kg		11/01/22 17:00	11/02/22 23:56	1
Xylenes, Total	**0.0110**		0.00402		mg/Kg		11/01/22 17:00	11/02/22 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*11/01/22 17:00*	*11/02/22 23:56*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/01/22 17:00*	*11/02/22 23:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0133**		0.00402		mg/Kg			11/03/22 16:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/03/22 10:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/01/22 16:40	11/03/22 01:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/01/22 16:40	11/03/22 01:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/01/22 16:40	11/03/22 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*11/01/22 16:40*	*11/03/22 01:15*	*1*
o-Terphenyl	*113*		*70 - 130*	*11/01/22 16:40*	*11/03/22 01:15*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.0**		4.95		mg/Kg			11/02/22 13:11	1

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-21015-1
Project/Site: CTB 145

Client Sample ID: SW-6
Lab Sample ID: 880-21015-6
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24
Sample Depth: 6'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/22 17:00	11/03/22 00:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/22 17:00	11/03/22 00:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/22 17:00	11/03/22 00:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/22 17:00	11/03/22 00:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/22 17:00	11/03/22 00:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/22 17:00	11/03/22 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*11/01/22 17:00*	*11/03/22 00:16*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*11/01/22 17:00*	*11/03/22 00:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/03/22 16:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/03/22 10:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/01/22 16:40	11/03/22 01:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/01/22 16:40	11/03/22 01:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/01/22 16:40	11/03/22 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/01/22 16:40*	*11/03/22 01:36*	*1*
o-Terphenyl	*108*		*70 - 130*	*11/01/22 16:40*	*11/03/22 01:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.5**		5.00		mg/Kg			11/02/22 13:16	1

Client Sample ID: SW-7
Lab Sample ID: 880-21015-7
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24
Sample Depth: 6'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/22 17:00	11/03/22 00:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/22 17:00	11/03/22 00:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/22 17:00	11/03/22 00:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/22 17:00	11/03/22 00:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/22 17:00	11/03/22 00:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/22 17:00	11/03/22 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*11/01/22 17:00*	*11/03/22 00:37*	*1*

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Job ID: 880-21015-1
Project/Site: CTB 145

Client Sample ID: SW-7
Lab Sample ID: 880-21015-7
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24
Sample Depth: 6'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/01/22 17:00*	*11/03/22 00:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/03/22 16:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**60.3**		49.8		mg/Kg			11/03/22 10:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/01/22 16:40	11/03/22 01:57	1
Diesel Range Organics (Over C10-C28)	**60.3**		49.8		mg/Kg		11/01/22 16:40	11/03/22 01:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/01/22 16:40	11/03/22 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*77*		*70 - 130*	*11/01/22 16:40*	*11/03/22 01:57*	*1*
o-Terphenyl	*90*		*70 - 130*	*11/01/22 16:40*	*11/03/22 01:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.8**		4.98		mg/Kg			11/02/22 13:21	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Job ID: 880-21015-1
Project/Site: CTB 145

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-20908-A-2-B MS	Matrix Spike	103	110
880-20908-A-2-C MSD	Matrix Spike Duplicate	98	110
880-21015-1	CS-15	195 S1+	101
880-21015-2	CS-15	105	96
880-21015-3	CS-15	98	94
880-21015-4	CS-15	109	99
880-21015-5	SW-5	120	101
880-21015-6	SW-6	106	88
880-21015-7	SW-7	115	100
LCS 880-38420/1-A	Lab Control Sample	92	108
LCSD 880-38420/2-A	Lab Control Sample Dup	99	98
MB 880-38415/5-A	Method Blank	85	94
MB 880-38420/5-A	Method Blank	81	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-21015-1	CS-15	108	109
880-21015-1 MS	CS-15	90	85
880-21015-1 MSD	CS-15	94	90
880-21015-2	CS-15	92	111
880-21015-3	CS-15	99	117
880-21015-4	CS-15	103	115
880-21015-5	SW-5	100	113
880-21015-6	SW-6	91	108
880-21015-7	SW-7	77	90
LCS 880-38436/2-A	Lab Control Sample	107	133 S1+
LCSD 880-38436/3-A	Lab Control Sample Dup	108	128
MB 880-38436/1-A	Method Blank	87	109

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-21015-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38415/5-A
Matrix: Solid
Analysis Batch: 38442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/22 15:07	11/02/22 10:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/22 15:07	11/02/22 10:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/22 15:07	11/02/22 10:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/22 15:07	11/02/22 10:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/22 15:07	11/02/22 10:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/22 15:07	11/02/22 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*11/01/22 15:07*	*11/02/22 10:53*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*11/01/22 15:07*	*11/02/22 10:53*	*1*

Lab Sample ID: MB 880-38420/5-A
Matrix: Solid
Analysis Batch: 38442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/22 15:19	11/02/22 22:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/22 15:19	11/02/22 22:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/22 15:19	11/02/22 22:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/22 15:19	11/02/22 22:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/22 15:19	11/02/22 22:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/22 15:19	11/02/22 22:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/01/22 15:19*	*11/02/22 22:12*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*11/01/22 15:19*	*11/02/22 22:12*	*1*

Lab Sample ID: LCS 880-38420/1-A
Matrix: Solid
Analysis Batch: 38442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1038		mg/Kg		104	70 - 130
Toluene	0.100	0.08908		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08192		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1665		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08367		mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-38420/2-A
Matrix: Solid
Analysis Batch: 38442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38420

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1125		mg/Kg		113	70 - 130	8	35

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-21015-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-38420/2-A
Matrix: Solid
Analysis Batch: 38442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38420

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09874		mg/Kg		99	70 - 130	10	35
Ethylbenzene			0.100	0.09245		mg/Kg		92	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.1906		mg/Kg		95	70 - 130	14	35
o-Xylene			0.100	0.09544		mg/Kg		95	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-20908-A-2-B MS
Matrix: Solid
Analysis Batch: 38442

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 38420

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.07652		mg/Kg		77	70 - 130
Toluene	<0.00201	U F1	0.0998	0.04969	F1	mg/Kg		50	70 - 130
Ethylbenzene	<0.00201	U F1	0.0998	0.03950	F1	mg/Kg		40	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.07556	F1	mg/Kg		38	70 - 130
o-Xylene	<0.00201	U F1	0.0998	0.03627	F1	mg/Kg		36	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-20908-A-2-C MSD
Matrix: Solid
Analysis Batch: 38442

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 38420

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.07508		mg/Kg		76	70 - 130	2	35
Toluene	<0.00201	U F1	0.0990	0.04880	F1	mg/Kg		49	70 - 130	2	35
Ethylbenzene	<0.00201	U F1	0.0990	0.03713	F1	mg/Kg		38	70 - 130	6	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.07079	F1	mg/Kg		36	70 - 130	7	35
o-Xylene	<0.00201	U F1	0.0990	0.03414	F1	mg/Kg		34	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-38436/1-A
Matrix: Solid
Analysis Batch: 38457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/01/22 16:40	11/02/22 22:03	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-21015-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-38436/1-A
Matrix: Solid
Analysis Batch: 38457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/01/22 16:40	11/02/22 22:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/01/22 16:40	11/02/22 22:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/01/22 16:40*	*11/02/22 22:03*	*1*
o-Terphenyl	*109*		*70 - 130*	*11/01/22 16:40*	*11/02/22 22:03*	*1*

Lab Sample ID: LCS 880-38436/2-A
Matrix: Solid
Analysis Batch: 38457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38436

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	844.0		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1140		mg/Kg		114	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*133*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-38436/3-A
Matrix: Solid
Analysis Batch: 38457

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38436

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	881.3		mg/Kg		88	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1139		mg/Kg		114	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*128*		*70 - 130*

Lab Sample ID: 880-21015-1 MS
Matrix: Solid
Analysis Batch: 38457

Client Sample ID: CS-15
Prep Type: Total/NA
Prep Batch: 38436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	532		997	1528		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	2380	F1	997	2896	F1	mg/Kg		52	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-21015-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-21015-1 MSD
Matrix: Solid
Analysis Batch: 38457

Client Sample ID: CS-15
Prep Type: Total/NA
Prep Batch: 38436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	532		999	1605		mg/Kg		107	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	2380	F1	999	3061	F1	mg/Kg		69	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38432/1-A
Matrix: Solid
Analysis Batch: 38532

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/02/22 08:36	1

Lab Sample ID: LCS 880-38432/2-A
Matrix: Solid
Analysis Batch: 38532

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.2		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-38432/3-A
Matrix: Solid
Analysis Batch: 38532

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254.2		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-20768-A-17-B MS
Matrix: Solid
Analysis Batch: 38532

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	641		250	870.1		mg/Kg		92	90 - 110

Lab Sample ID: 880-20768-A-17-C MSD
Matrix: Solid
Analysis Batch: 38532

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	641		250	871.2		mg/Kg		92	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Job ID: 880-21015-1
Project/Site: CTB 145

GC VOA

Prep Batch: 38415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-38415/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 38420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21015-1	CS-15	Total/NA	Solid	5035	
880-21015-2	CS-15	Total/NA	Solid	5035	
880-21015-3	CS-15	Total/NA	Solid	5035	
880-21015-4	CS-15	Total/NA	Solid	5035	
880-21015-5	SW-5	Total/NA	Solid	5035	
880-21015-6	SW-6	Total/NA	Solid	5035	
880-21015-7	SW-7	Total/NA	Solid	5035	
MB 880-38420/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38420/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38420/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20908-A-2-B MS	Matrix Spike	Total/NA	Solid	5035	
880-20908-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 38442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21015-1	CS-15	Total/NA	Solid	8021B	38420
880-21015-2	CS-15	Total/NA	Solid	8021B	38420
880-21015-3	CS-15	Total/NA	Solid	8021B	38420
880-21015-4	CS-15	Total/NA	Solid	8021B	38420
880-21015-5	SW-5	Total/NA	Solid	8021B	38420
880-21015-6	SW-6	Total/NA	Solid	8021B	38420
880-21015-7	SW-7	Total/NA	Solid	8021B	38420
MB 880-38415/5-A	Method Blank	Total/NA	Solid	8021B	38415
MB 880-38420/5-A	Method Blank	Total/NA	Solid	8021B	38420
LCS 880-38420/1-A	Lab Control Sample	Total/NA	Solid	8021B	38420
LCSD 880-38420/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38420
880-20908-A-2-B MS	Matrix Spike	Total/NA	Solid	8021B	38420
880-20908-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38420

Analysis Batch: 38656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21015-1	CS-15	Total/NA	Solid	Total BTEX	
880-21015-2	CS-15	Total/NA	Solid	Total BTEX	
880-21015-3	CS-15	Total/NA	Solid	Total BTEX	
880-21015-4	CS-15	Total/NA	Solid	Total BTEX	
880-21015-5	SW-5	Total/NA	Solid	Total BTEX	
880-21015-6	SW-6	Total/NA	Solid	Total BTEX	
880-21015-7	SW-7	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21015-1	CS-15	Total/NA	Solid	8015NM Prep	
880-21015-2	CS-15	Total/NA	Solid	8015NM Prep	
880-21015-3	CS-15	Total/NA	Solid	8015NM Prep	
880-21015-4	CS-15	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Earth Systems Response and Restoration Job ID: 880-21015-1
Project/Site: CTB 145

GC Semi VOA (Continued)

Prep Batch: 38436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21015-5	SW-5	Total/NA	Solid	8015NM Prep	
880-21015-6	SW-6	Total/NA	Solid	8015NM Prep	
880-21015-7	SW-7	Total/NA	Solid	8015NM Prep	
MB 880-38436/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38436/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21015-1 MS	CS-15	Total/NA	Solid	8015NM Prep	
880-21015-1 MSD	CS-15	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21015-1	CS-15	Total/NA	Solid	8015B NM	38436
880-21015-2	CS-15	Total/NA	Solid	8015B NM	38436
880-21015-3	CS-15	Total/NA	Solid	8015B NM	38436
880-21015-4	CS-15	Total/NA	Solid	8015B NM	38436
880-21015-5	SW-5	Total/NA	Solid	8015B NM	38436
880-21015-6	SW-6	Total/NA	Solid	8015B NM	38436
880-21015-7	SW-7	Total/NA	Solid	8015B NM	38436
MB 880-38436/1-A	Method Blank	Total/NA	Solid	8015B NM	38436
LCS 880-38436/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38436
LCSD 880-38436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38436
880-21015-1 MS	CS-15	Total/NA	Solid	8015B NM	38436
880-21015-1 MSD	CS-15	Total/NA	Solid	8015B NM	38436

Analysis Batch: 38603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21015-1	CS-15	Total/NA	Solid	8015 NM	
880-21015-2	CS-15	Total/NA	Solid	8015 NM	
880-21015-3	CS-15	Total/NA	Solid	8015 NM	
880-21015-4	CS-15	Total/NA	Solid	8015 NM	
880-21015-5	SW-5	Total/NA	Solid	8015 NM	
880-21015-6	SW-6	Total/NA	Solid	8015 NM	
880-21015-7	SW-7	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21015-1	CS-15	Soluble	Solid	DI Leach	
880-21015-2	CS-15	Soluble	Solid	DI Leach	
880-21015-3	CS-15	Soluble	Solid	DI Leach	
880-21015-4	CS-15	Soluble	Solid	DI Leach	
880-21015-5	SW-5	Soluble	Solid	DI Leach	
880-21015-6	SW-6	Soluble	Solid	DI Leach	
880-21015-7	SW-7	Soluble	Solid	DI Leach	
MB 880-38432/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38432/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38432/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20768-A-17-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-20768-A-17-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

QC Association Summary

Client: Earth Systems Response and Restoration
Job ID: 880-21015-1
Project/Site: CTB 145

HPLC/IC

Analysis Batch: 38532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21015-1	CS-15	Soluble	Solid	300.0	38432
880-21015-2	CS-15	Soluble	Solid	300.0	38432
880-21015-3	CS-15	Soluble	Solid	300.0	38432
880-21015-4	CS-15	Soluble	Solid	300.0	38432
880-21015-5	SW-5	Soluble	Solid	300.0	38432
880-21015-6	SW-6	Soluble	Solid	300.0	38432
880-21015-7	SW-7	Soluble	Solid	300.0	38432
MB 880-38432/1-A	Method Blank	Soluble	Solid	300.0	38432
LCS 880-38432/2-A	Lab Control Sample	Soluble	Solid	300.0	38432
LCSD 880-38432/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38432
880-20768-A-17-B MS	Matrix Spike	Soluble	Solid	300.0	38432
880-20768-A-17-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	38432

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-21015-1

Client Sample ID: CS-15
Date Collected: 11/01/22 00:00
Date Received: 11/01/22 15:24

Lab Sample ID: 880-21015-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38420	11/01/22 17:00	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	38442	11/03/22 01:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38656	11/03/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			38603	11/03/22 10:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38436	11/01/22 16:40	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38457	11/02/22 23:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38432	11/01/22 16:11	CH	EET MID
Soluble	Analysis	300.0		1			38532	11/02/22 12:19	CH	EET MID

Client Sample ID: CS-15
Date Collected: 11/01/22 00:00
Date Received: 11/01/22 15:24

Lab Sample ID: 880-21015-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	38420	11/01/22 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38442	11/02/22 22:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38656	11/03/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			38603	11/03/22 10:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38436	11/01/22 16:40	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38457	11/03/22 00:11	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	38432	11/01/22 16:11	CH	EET MID
Soluble	Analysis	300.0		1			38532	11/02/22 12:24	CH	EET MID

Client Sample ID: CS-15
Date Collected: 11/01/22 00:00
Date Received: 11/01/22 15:24

Lab Sample ID: 880-21015-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	38420	11/01/22 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38442	11/02/22 23:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38656	11/03/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			38603	11/03/22 10:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38436	11/01/22 16:40	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38457	11/03/22 00:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38432	11/01/22 16:11	CH	EET MID
Soluble	Analysis	300.0		1			38532	11/02/22 13:01	CH	EET MID

Client Sample ID: CS-15
Date Collected: 11/01/22 00:00
Date Received: 11/01/22 15:24

Lab Sample ID: 880-21015-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	38420	11/01/22 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38442	11/02/22 23:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38656	11/03/22 16:02	SM	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Job ID: 880-21015-1
Project/Site: CTB 145

Client Sample ID: CS-15
Lab Sample ID: 880-21015-4
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			38603	11/03/22 10:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38436	11/01/22 16:40	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38457	11/03/22 00:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38432	11/01/22 16:11	CH	EET MID
Soluble	Analysis	300.0		1			38532	11/02/22 13:06	CH	EET MID

Client Sample ID: SW-5
Lab Sample ID: 880-21015-5
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	38420	11/01/22 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38442	11/02/22 23:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38656	11/03/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			38603	11/03/22 10:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38436	11/01/22 16:40	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38457	11/03/22 01:15	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38432	11/01/22 16:11	CH	EET MID
Soluble	Analysis	300.0		1			38532	11/02/22 13:11	CH	EET MID

Client Sample ID: SW-6
Lab Sample ID: 880-21015-6
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38420	11/01/22 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38442	11/03/22 00:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38656	11/03/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			38603	11/03/22 10:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38436	11/01/22 16:40	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38457	11/03/22 01:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38432	11/01/22 16:11	CH	EET MID
Soluble	Analysis	300.0		1			38532	11/02/22 13:16	CH	EET MID

Client Sample ID: SW-7
Lab Sample ID: 880-21015-7
Date Collected: 11/01/22 00:00
Matrix: Solid
Date Received: 11/01/22 15:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	38420	11/01/22 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38442	11/03/22 00:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38656	11/03/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			38603	11/03/22 10:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	38436	11/01/22 16:40	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38457	11/03/22 01:57	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Job ID: 880-21015-1
Project/Site: CTB 145

Client Sample ID: SW-7
Date Collected: 11/01/22 00:00
Date Received: 11/01/22 15:24

Lab Sample ID: 880-21015-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	38432	11/01/22 16:11	CH	EET MID
Soluble	Analysis	300.0		1			38532	11/02/22 13:21	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration Job ID: 880-21015-1
Project/Site: CTB 145

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-21015-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-21015-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-21015-1	CS-15	Solid	11/01/22 00:00	11/01/22 15:24	10 - 10.5
880-21015-2	CS-15	Solid	11/01/22 00:00	11/01/22 15:24	10.5 - 11
880-21015-3	CS-15	Solid	11/01/22 00:00	11/01/22 15:24	11.5 - 12
880-21015-4	CS-15	Solid	11/01/22 00:00	11/01/22 15:24	12.5 - 13
880-21015-5	SW-5	Solid	11/01/22 00:00	11/01/22 15:24	6'
880-21015-6	SW-6	Solid	11/01/22 00:00	11/01/22 15:24	6'
880-21015-7	SW-7	Solid	11/01/22 00:00	11/01/22 15:24	6'

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199

Work Order No: 21015

www.xenco.com Page _____ of _____

Project Manager	Tom Carlson	Bill to (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385 Email	Tcarlson@earthsys.net	

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project.
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name:	CTB 145	Turn Around	
Project Number	1284	☐ Routine ☑ Rush	
Project Location		Due Date	3 Day
Sampler's Name	Tom Carlson	TAT starts the day received by the lab if received by 4:30pm	
PO #			

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice	Yes No	
Samples Received Intact:	Yes No	Thermometer ID	IR8	
Cooler Custody Seals.	Yes No N/A	Correction Factor	-.36	
Sample Custody Seals	Yes No N/A	Temperature Reading	5.6	
Total Containers		Corrected Temperature	5.3	

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2S0_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides	TPH 8015	BTEX 8021	Sample Comments
CS-15	S	11/1/2022		10-10 5	Comp	1	X	X	X	402
CS-15	S	11/1/2022		10 5-11	Comp	1	X	X	X	
CS-15	S	11/1/2022		11 5-12	Comp	1	X	X	X	
CS-15	S	11/1/2022		12 5-13	Comp	1	X	X	X	
CS-15	S	11/1/2022		6'	Comp	1	X	X	X	
CS-15	S	11/1/2022		6'	Comp	1	X	X	X	
CS-15	S	11/1/2022		6'	Comp	1	X	X	X	

880-21015 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		11/1/22 1529	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration Job Number: 880-21015-1

Login Number: 21015 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kris Williams
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Generated 12/6/2022 9:48:17 AM

JOB DESCRIPTION

CTB 145
SDG NUMBER 1284

JOB NUMBER

880-22160-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

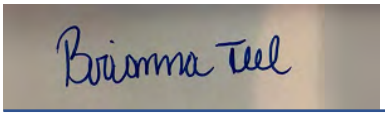
my EOL

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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12/6/2022 9:48:17 AM

Authorized for release by
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Laboratory Job ID: 880-22160-1
SDG: 1284

Table of Contents

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Job ID: 880-22160-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-22160-1

Receipt
The samples were received on 12/1/2022 4:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.7°C

Receipt Exceptions
The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-22160-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40872 and analytical batch 880-40844 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40872 and analytical batch 880-40844 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-40863/21), (CCV 880-40863/5), (LCS 880-40860/2-A) and (LCSD 880-40860/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40860 and analytical batch 880-40863 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-15 12-12.5 (880-22160-1) and (880-22160-A-1-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Client Sample ID: CS-15 12-12.5

Lab Sample ID: 880-22160-1
Matrix: Solid
Date Collected: 12/01/22 00:00
Date Received: 12/01/22 16:27

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/02/22 10:13	12/03/22 00:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/02/22 10:13	12/03/22 00:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/02/22 10:13	12/03/22 00:25	1
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.00402		mg/Kg		12/02/22 10:13	12/03/22 00:25	1
o-Xylene	<0.00201	U F2 F1 *-	0.00201		mg/Kg		12/02/22 10:13	12/03/22 00:25	1
Xylenes, Total	<0.00402	U F2 F1	0.00402		mg/Kg		12/02/22 10:13	12/03/22 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*12/02/22 10:13*	*12/03/22 00:25*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/02/22 10:13*	*12/03/22 00:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/05/22 14:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/05/22 12:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/02/22 09:05	12/02/22 15:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/02/22 09:05	12/02/22 15:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/02/22 09:05	12/02/22 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*12/02/22 09:05*	*12/02/22 15:44*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*12/02/22 09:05*	*12/02/22 15:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.0**		5.05		mg/Kg			12/05/22 16:35	1

Client Sample ID: CS-20 2.5-3

Lab Sample ID: 880-22160-2
Matrix: Solid
Date Collected: 12/01/22 00:00
Date Received: 12/01/22 16:27

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/02/22 10:13	12/03/22 00:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/02/22 10:13	12/03/22 00:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/02/22 10:13	12/03/22 00:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/02/22 10:13	12/03/22 00:46	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		12/02/22 10:13	12/03/22 00:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/02/22 10:13	12/03/22 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*12/02/22 10:13*	*12/03/22 00:46*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/02/22 10:13*	*12/03/22 00:46*	*1*

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Client Sample ID: CS-20 2.5-3

Lab Sample ID: 880-22160-2
Date Collected: 12/01/22 00:00
Matrix: Solid
Date Received: 12/01/22 16:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/05/22 14:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/05/22 12:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/02/22 09:05	12/02/22 17:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/02/22 09:05	12/02/22 17:50	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/02/22 09:05	12/02/22 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*12/02/22 09:05*	*12/02/22 17:50*	*1*
o-Terphenyl	*126*		*70 - 130*	*12/02/22 09:05*	*12/02/22 17:50*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.4**		5.01		mg/Kg			12/05/22 16:59	1

Client Sample ID: CS-21 2.5-3

Lab Sample ID: 880-22160-3
Date Collected: 12/01/22 00:00
Matrix: Solid
Date Received: 12/01/22 16:27

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/02/22 10:13	12/03/22 01:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/02/22 10:13	12/03/22 01:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/02/22 10:13	12/03/22 01:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/02/22 10:13	12/03/22 01:06	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		12/02/22 10:13	12/03/22 01:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/02/22 10:13	12/03/22 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/02/22 10:13*	*12/03/22 01:06*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*12/02/22 10:13*	*12/03/22 01:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/05/22 14:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/05/22 12:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/02/22 09:05	12/02/22 18:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/02/22 09:05	12/02/22 18:13	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Client Sample ID: CS-21 2.5-3

Lab Sample ID: 880-22160-3
Matrix: Solid
Date Collected: 12/01/22 00:00
Date Received: 12/01/22 16:27

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/02/22 09:05	12/02/22 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*12/02/22 09:05*	*12/02/22 18:13*	*1*
o-Terphenyl	*118*		*70 - 130*	*12/02/22 09:05*	*12/02/22 18:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.6**		5.04		mg/Kg			12/05/22 17:07	1

Client Sample ID: SW-8 0.5

Lab Sample ID: 880-22160-4
Matrix: Solid
Date Collected: 12/01/22 00:00
Date Received: 12/01/22 16:27

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/02/22 10:13	12/03/22 01:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/02/22 10:13	12/03/22 01:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/02/22 10:13	12/03/22 01:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/02/22 10:13	12/03/22 01:27	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		12/02/22 10:13	12/03/22 01:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/02/22 10:13	12/03/22 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/02/22 10:13*	*12/03/22 01:27*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/02/22 10:13*	*12/03/22 01:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/05/22 14:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/05/22 12:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/02/22 09:05	12/02/22 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/02/22 09:05	12/02/22 18:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/02/22 09:05	12/02/22 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*12/02/22 09:05*	*12/02/22 18:36*	*1*
o-Terphenyl	*120*		*70 - 130*	*12/02/22 09:05*	*12/02/22 18:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.8**		5.00		mg/Kg			12/05/22 17:15	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-22160-1	CS-15 12-12.5	75	101
880-22160-1 MS	CS-15 12-12.5	95	111
880-22160-1 MSD	CS-15 12-12.5	55 S1-	103
880-22160-2	CS-20 2.5-3	75	102
880-22160-3	CS-21 2.5-3	89	114
880-22160-4	SW-8 0.5	93	106
LCS 880-40872/1-A	Lab Control Sample	77	104
LCSD 880-40872/2-A	Lab Control Sample Dup	87	107
MB 880-40770/5-A	Method Blank	69 S1-	106
MB 880-40872/5-A	Method Blank	69 S1-	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-22160-1	CS-15 12-12.5	128	151 S1+
880-22160-1 MS	CS-15 12-12.5	129	134 S1+
880-22160-1 MSD	CS-15 12-12.5	109	117
880-22160-2	CS-20 2.5-3	106	126
880-22160-3	CS-21 2.5-3	99	118
880-22160-4	SW-8 0.5	100	120
LCS 880-40860/2-A	Lab Control Sample	181 S1+	214 S1+
LCSD 880-40860/3-A	Lab Control Sample Dup	170 S1+	202 S1+
MB 880-40860/1-A	Method Blank	128	160 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40770/5-A
Matrix: Solid
Analysis Batch: 40844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:01	12/02/22 12:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:01	12/02/22 12:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:01	12/02/22 12:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/22 11:01	12/02/22 12:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:01	12/02/22 12:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/22 11:01	12/02/22 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*12/01/22 11:01*	*12/02/22 12:05*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/01/22 11:01*	*12/02/22 12:05*	*1*

Lab Sample ID: MB 880-40872/5-A
Matrix: Solid
Analysis Batch: 40844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/02/22 10:13	12/02/22 23:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/02/22 10:13	12/02/22 23:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/02/22 10:13	12/02/22 23:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/02/22 10:13	12/02/22 23:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/02/22 10:13	12/02/22 23:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/02/22 10:13	12/02/22 23:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*12/02/22 10:13*	*12/02/22 23:56*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/02/22 10:13*	*12/02/22 23:56*	*1*

Lab Sample ID: LCS 880-40872/1-A
Matrix: Solid
Analysis Batch: 40844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40872

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08370		mg/Kg		84	70 - 130		
Toluene			0.100	0.08453		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.07825		mg/Kg		78	70 - 130		
m-Xylene & p-Xylene			0.200	0.1395		mg/Kg		70	70 - 130		
o-Xylene			0.100	0.06927	*-	mg/Kg		69	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-40872/2-A
Matrix: Solid
Analysis Batch: 40844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40872

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08192		mg/Kg		82	70 - 130	2	35

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-40872/2-A
Matrix: Solid
Analysis Batch: 40844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40872

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09613		mg/Kg		96	70 - 130	13	35
Ethylbenzene			0.100	0.09010		mg/Kg		90	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.1608		mg/Kg		80	70 - 130	14	35
o-Xylene			0.100	0.07918		mg/Kg		79	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-22160-1 MS
Matrix: Solid
Analysis Batch: 40844

Client Sample ID: CS-15 12-12.5
Prep Type: Total/NA
Prep Batch: 40872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.1026		mg/Kg		102	70 - 130
Toluene	<0.00201	U	0.100	0.1143		mg/Kg		114	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.1040		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.200	0.1849		mg/Kg		92	70 - 130
o-Xylene	<0.00201	U F2 F1 *-	0.100	0.09173		mg/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 880-22160-1 MSD
Matrix: Solid
Analysis Batch: 40844

Client Sample ID: CS-15 12-12.5
Prep Type: Total/NA
Prep Batch: 40872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.07990		mg/Kg		80	70 - 130	25	35
Toluene	<0.00201	U	0.0996	0.08412		mg/Kg		84	70 - 130	30	35
Ethylbenzene	<0.00201	U	0.0996	0.07747		mg/Kg		78	70 - 130	29	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.199	0.1262	F2 F1	mg/Kg		63	70 - 130	38	35
o-Xylene	<0.00201	U F2 F1 *-	0.0996	0.05857	F2 F1	mg/Kg		58	70 - 130	44	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*55*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-40860/1-A
Matrix: Solid
Analysis Batch: 40863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40860

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/02/22 09:05	12/02/22 13:02	1

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-40860/1-A
Matrix: Solid
Analysis Batch: 40863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40860

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/02/22 09:05	12/02/22 13:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/02/22 09:05	12/02/22 13:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*12/02/22 09:05*	*12/02/22 13:02*	*1*
o-Terphenyl	*160*	*S1+*	*70 - 130*	*12/02/22 09:05*	*12/02/22 13:02*	*1*

Lab Sample ID: LCS 880-40860/2-A
Matrix: Solid
Analysis Batch: 40863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40860

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	747.2		mg/Kg		75	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1077		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*181*	*S1+*	*70 - 130*
o-Terphenyl	*214*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-40860/3-A
Matrix: Solid
Analysis Batch: 40863

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40860

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	770.3		mg/Kg		77	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1009		mg/Kg		101	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*170*	*S1+*	*70 - 130*
o-Terphenyl	*202*	*S1+*	*70 - 130*

Lab Sample ID: 880-22160-1 MS
Matrix: Solid
Analysis Batch: 40863

Client Sample ID: CS-15 12-12.5
Prep Type: Total/NA
Prep Batch: 40860

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1114		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1273		mg/Kg		125	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*129*		*70 - 130*
o-Terphenyl	*134*	*S1+*	*70 - 130*

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-22160-1 MSD
Matrix: Solid
Analysis Batch: 40863

Client Sample ID: CS-15 12-12.5
Prep Type: Total/NA
Prep Batch: 40860

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	985.8		mg/Kg		96	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1103		mg/Kg		108	70 - 130	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40939/1-A
Matrix: Solid
Analysis Batch: 40963

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/05/22 12:11	1

Lab Sample ID: LCS 880-40939/2-A
Matrix: Solid
Analysis Batch: 40963

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	260.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-40939/3-A
Matrix: Solid
Analysis Batch: 40963

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	258.3		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-22160-1 MS
Matrix: Solid
Analysis Batch: 40963

Client Sample ID: CS-15 12-12.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	22.0		253	273.0		mg/Kg		99	90 - 110

Lab Sample ID: 880-22160-1 MSD
Matrix: Solid
Analysis Batch: 40963

Client Sample ID: CS-15 12-12.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22.0		253	280.0		mg/Kg		102	90 - 110	3	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

GC VOA

Prep Batch: 40770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40770/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 40844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22160-1	CS-15 12-12.5	Total/NA	Solid	8021B	40872
880-22160-2	CS-20 2.5-3	Total/NA	Solid	8021B	40872
880-22160-3	CS-21 2.5-3	Total/NA	Solid	8021B	40872
880-22160-4	SW-8 0.5	Total/NA	Solid	8021B	40872
MB 880-40770/5-A	Method Blank	Total/NA	Solid	8021B	40770
MB 880-40872/5-A	Method Blank	Total/NA	Solid	8021B	40872
LCS 880-40872/1-A	Lab Control Sample	Total/NA	Solid	8021B	40872
LCSD 880-40872/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40872
880-22160-1 MS	CS-15 12-12.5	Total/NA	Solid	8021B	40872
880-22160-1 MSD	CS-15 12-12.5	Total/NA	Solid	8021B	40872

Prep Batch: 40872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22160-1	CS-15 12-12.5	Total/NA	Solid	5035	
880-22160-2	CS-20 2.5-3	Total/NA	Solid	5035	
880-22160-3	CS-21 2.5-3	Total/NA	Solid	5035	
880-22160-4	SW-8 0.5	Total/NA	Solid	5035	
MB 880-40872/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40872/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40872/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22160-1 MS	CS-15 12-12.5	Total/NA	Solid	5035	
880-22160-1 MSD	CS-15 12-12.5	Total/NA	Solid	5035	

Analysis Batch: 41062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22160-1	CS-15 12-12.5	Total/NA	Solid	Total BTEX	
880-22160-2	CS-20 2.5-3	Total/NA	Solid	Total BTEX	
880-22160-3	CS-21 2.5-3	Total/NA	Solid	Total BTEX	
880-22160-4	SW-8 0.5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 40860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22160-1	CS-15 12-12.5	Total/NA	Solid	8015NM Prep	
880-22160-2	CS-20 2.5-3	Total/NA	Solid	8015NM Prep	
880-22160-3	CS-21 2.5-3	Total/NA	Solid	8015NM Prep	
880-22160-4	SW-8 0.5	Total/NA	Solid	8015NM Prep	
MB 880-40860/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40860/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40860/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22160-1 MS	CS-15 12-12.5	Total/NA	Solid	8015NM Prep	
880-22160-1 MSD	CS-15 12-12.5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22160-1	CS-15 12-12.5	Total/NA	Solid	8015B NM	40860

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

GC Semi VOA (Continued)

Analysis Batch: 40863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22160-2	CS-20 2.5-3	Total/NA	Solid	8015B NM	40860
880-22160-3	CS-21 2.5-3	Total/NA	Solid	8015B NM	40860
880-22160-4	SW-8 0.5	Total/NA	Solid	8015B NM	40860
MB 880-40860/1-A	Method Blank	Total/NA	Solid	8015B NM	40860
LCS 880-40860/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40860
LCSD 880-40860/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40860
880-22160-1 MS	CS-15 12-12.5	Total/NA	Solid	8015B NM	40860
880-22160-1 MSD	CS-15 12-12.5	Total/NA	Solid	8015B NM	40860

Analysis Batch: 41041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22160-1	CS-15 12-12.5	Total/NA	Solid	8015 NM	
880-22160-2	CS-20 2.5-3	Total/NA	Solid	8015 NM	
880-22160-3	CS-21 2.5-3	Total/NA	Solid	8015 NM	
880-22160-4	SW-8 0.5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22160-1	CS-15 12-12.5	Soluble	Solid	DI Leach	
880-22160-2	CS-20 2.5-3	Soluble	Solid	DI Leach	
880-22160-3	CS-21 2.5-3	Soluble	Solid	DI Leach	
880-22160-4	SW-8 0.5	Soluble	Solid	DI Leach	
MB 880-40939/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40939/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40939/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22160-1 MS	CS-15 12-12.5	Soluble	Solid	DI Leach	
880-22160-1 MSD	CS-15 12-12.5	Soluble	Solid	DI Leach	

Analysis Batch: 40963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22160-1	CS-15 12-12.5	Soluble	Solid	300.0	40939
880-22160-2	CS-20 2.5-3	Soluble	Solid	300.0	40939
880-22160-3	CS-21 2.5-3	Soluble	Solid	300.0	40939
880-22160-4	SW-8 0.5	Soluble	Solid	300.0	40939
MB 880-40939/1-A	Method Blank	Soluble	Solid	300.0	40939
LCS 880-40939/2-A	Lab Control Sample	Soluble	Solid	300.0	40939
LCSD 880-40939/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40939
880-22160-1 MS	CS-15 12-12.5	Soluble	Solid	300.0	40939
880-22160-1 MSD	CS-15 12-12.5	Soluble	Solid	300.0	40939

Lab Chronicle

Client: Earth Systems Response and Restoration
Job ID: 880-22160-1
Project/Site: CTB 145
SDG: 1284

Client Sample ID: CS-15 12-12.5
Lab Sample ID: 880-22160-1
Date Collected: 12/01/22 00:00
Matrix: Solid
Date Received: 12/01/22 16:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40872	12/02/22 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40844	12/03/22 00:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41062	12/05/22 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			41041	12/05/22 12:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40860	12/02/22 09:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40863	12/02/22 15:44	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40939	12/03/22 10:37	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40963	12/05/22 16:35	CH	EET MID

Client Sample ID: CS-20 2.5-3
Lab Sample ID: 880-22160-2
Date Collected: 12/01/22 00:00
Matrix: Solid
Date Received: 12/01/22 16:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40872	12/02/22 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40844	12/03/22 00:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41062	12/05/22 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			41041	12/05/22 12:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40860	12/02/22 09:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40863	12/02/22 17:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40939	12/03/22 10:37	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40963	12/05/22 16:59	CH	EET MID

Client Sample ID: CS-21 2.5-3
Lab Sample ID: 880-22160-3
Date Collected: 12/01/22 00:00
Matrix: Solid
Date Received: 12/01/22 16:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40872	12/02/22 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40844	12/03/22 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41062	12/05/22 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			41041	12/05/22 12:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40860	12/02/22 09:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40863	12/02/22 18:13	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40939	12/03/22 10:37	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40963	12/05/22 17:07	CH	EET MID

Client Sample ID: SW-8 0.5
Lab Sample ID: 880-22160-4
Date Collected: 12/01/22 00:00
Matrix: Solid
Date Received: 12/01/22 16:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40872	12/02/22 10:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40844	12/03/22 01:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41062	12/05/22 14:19	AJ	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Client Sample ID: SW-8 0.5

Date Collected: 12/01/22 00:00
Date Received: 12/01/22 16:27

Lab Sample ID: 880-22160-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41041	12/05/22 12:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40860	12/02/22 09:05	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40863	12/02/22 18:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40939	12/03/22 10:37	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40963	12/05/22 17:15	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Job ID: 880-22160-1
Project/Site: CTB 145
SDG: 1284

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-22160-1
SDG: 1284

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22160-1	CS-15 12-12.5	Solid	12/01/22 00:00	12/01/22 16:27
880-22160-2	CS-20 2.5-3	Solid	12/01/22 00:00	12/01/22 16:27
880-22160-3	CS-21 2.5-3	Solid	12/01/22 00:00	12/01/22 16:27
880-22160-4	SW-8 0.5	Solid	12/01/22 00:00	12/01/22 16:27

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Chain of Custody

Houston TX (281) 240-4200 Dallas, TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 22160

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Project Manager	Tom Carlson	Bill to (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	CTB 145	Turn Around	☐ Routine ☒ Rush
Project Number	1284	Due Date	3 day
Project Location		TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name	Tom Carlson		
PO #			

SAMPLE RECEIPT

Temp Blank	Yes (No)	Wet Ice	Yes (No)
Samples Received Intact	(Yes) No	Thermometer ID	IR6
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-0.3
Sample Custody Seals	Yes No (N/A)	Temperature Reading	5.0
Total Containers		Corrected Temperature	4.7

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chlorides	Sample Comments
CS-19	12-12.5	S	12/1			C	1		X	X	X	
CS-20	2.5-3	S	"			C	1		X	X	X	
CS-21	2.5-3	S	"			C	1		X	X	X	
SW-8	0.5	S	↓			C	1		X	X	X	

880-22160 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U / 7470 / 7471

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		12/1/22 1627	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-22160-1
SDG Number: 1284

Login Number: 22160
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Marathon Petroleum - Matthew Krakow - 111 CR 4990 Bloomfield, NM 87413

2. Originating Site:
CTB 145; Lat: 32.1357 Long: -103.6115

3. Location of Material (Street Address, City, State or ULSTR):
18-25S-33E

4. Source and Description of Waste:
Contaminated Soil
Valve thread leak

Estimated Volume 575 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Tom Carlson, representative or authorized agent for Marathon Petroleum do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

■ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ■ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter:
SDR Enterprises

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Northern Delaware Basin Landfill (NM1-63)

Address of Facility: 2029 W NM HWY 128 Jal, NM 88252 (mile marker 30 off Hwy 128)

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☒ Landfill ☐ Other

Waste Acceptance Status:

☑ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Dominique Tellez TITLE: Sales Manager DATE: 9/15/22

SIGNATURE: _____ TELEPHONE NO.: 505-231-1212
Surface Waste Management Facility Authorized Agent

eurofins | Environment Testing America

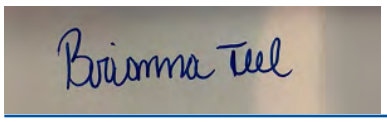
ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-18582-2
Laboratory Sample Delivery Group: 1284
Client Project/Site: CTB 145

For:
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Attn: Kris Williams



Authorized for release by:
9/7/2022 12:58:33 PM

Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

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

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

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Laboratory Job ID: 880-18582-2
SDG: 1284

Table of Contents

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Job ID: 880-18582-2

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-18582-2

Receipt
The sample was received on 8/29/2022 8:42 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

GC/MS VOA
Method 8260C: The following samples were diluted due to being a sludge: (860-32084-A-1-A) and (860-32084-A-1-A MS). Elevated reporting limits (RL) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-66727 and analytical batch 860-67289 were outside control limits. Sample matrix interference is suspected.

Method 8260C: The following sample was diluted due to the nature of the sample matrix: WC-1 0-0.5 (880-18582-1). Elevated reporting limits (RLs) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-67317 and analytical batch 860-67288 were outside control limits. Sample matrix interference is suspected.

Method 8260C: The following sample was diluted due to the nature of the sample matrix: WC-1 0-0.5 (880-18582-1). Elevated reporting limits (RLs) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: WC-1 0-0.5 (880-18582-1). Elevated reporting limits (RLs) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: Sample is a bulk jar.(830-2278-B-1-A) and (830-2278-B-1-B MS)

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: WC-1 0-0.5 (880-18582-1). Elevated reporting limits (RLs) are provided. Sample was prepped with methanol from a bulk jar.

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

GC/MS Semi VOA
Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: WC-1 0-0.5 (880-18582-1). These results have been reported and qualified.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: WC-1 0-0.5 (880-18582-1). 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 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-67434 and analytical batch 860-67746 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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.

Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Job ID: 880-18582-2 (Continued)

Laboratory: Eurofins Midland (Continued)

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Client Sample ID: WC-1 0-0.5
Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18582-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0251	U	0.0251		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Bromobenzene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Bromochloromethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Bromodichloromethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Bromoform	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Bromomethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
2-Butanone	**3.47**		0.502		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Carbon tetrachloride	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Chlorobenzene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Chloroethane	<0.251	U	0.251		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Chloroform	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Chloromethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
4-Chlorotoluene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
cis-1,2-Dichloroethene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
cis-1,3-Dichloropropene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Dibromochloromethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,2-Dibromo-3-Chloropropane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,2-Dibromoethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,2-Dichlorobenzene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,3-Dichlorobenzene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,4-Dichlorobenzene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Dichlorodifluoromethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,1-Dichloroethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,2-Dichloroethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,1-Dichloroethene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,2-Dichloropropane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,3-Dichloropropane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
2,2-Dichloropropane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,1-Dichloropropene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Ethylbenzene	**1.55**		0.0251		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Hexachlorobutadiene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Isopropylbenzene	**0.794**		0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Methylene Chloride	<0.502	U	0.502		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
MTBE	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Naphthalene	**0.685**		0.251		mg/Kg		08/31/22 13:25	08/31/22 15:33	25
n-Butylbenzene	**1.76**		0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
N-Propylbenzene	**1.58**		0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
p-Cymene (p-Isopropyltoluene)	**0.950**		0.126		mg/Kg		08/31/22 13:25	08/31/22 15:33	25
sec-Butylbenzene	**0.842**		0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Styrene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
tert-Butylbenzene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,1,1,2-Tetrachloroethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,1,2,2-Tetrachloroethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Tetrachloroethene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Toluene	**2.38**		0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
trans-1,2-Dichloroethene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
trans-1,3-Dichloropropene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,2,3-Trichlorobenzene	<0.126	U *+	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,2,4-Trichlorobenzene	<0.126	U *+	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Client Sample ID: WC-1 0-0.5
Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18582-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,1,2-Trichloroethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Trichloroethene	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Trichlorofluoromethane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
1,2,3-Trichloropropane	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25
Vinyl chloride	<0.126	U	0.126		mg/Kg		08/31/22 13:25	08/31/22 14:18	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*68 - 152*	*08/31/22 13:25*	*08/31/22 14:18*	*25*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*	*08/31/22 13:25*	*08/31/22 15:33*	*25*
Dibromofluoromethane (Surr)	*92*		*53 - 142*	*08/31/22 13:25*	*08/31/22 14:18*	*25*
Dibromofluoromethane (Surr)	*101*		*53 - 142*	*08/31/22 13:25*	*08/31/22 15:33*	*25*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*	*08/31/22 13:25*	*08/31/22 14:18*	*25*
1,2-Dichloroethane-d4 (Surr)	*110*		*56 - 150*	*08/31/22 13:25*	*08/31/22 15:33*	*25*
Toluene-d8 (Surr)	*102*		*70 - 130*	*08/31/22 13:25*	*08/31/22 14:18*	*25*
Toluene-d8 (Surr)	*102*		*70 - 130*	*08/31/22 13:25*	*08/31/22 15:33*	*25*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	**18.6**		0.402		mg/Kg		08/31/22 13:25	08/31/22 15:55	200
o-Xylene	**6.25**		0.201		mg/Kg		08/31/22 13:25	08/31/22 15:55	200
1,2,4-Trimethylbenzene	**21.3**		1.00		mg/Kg		08/31/22 13:25	08/31/22 15:55	200
1,3,5-Trimethylbenzene	**14.9**		1.00		mg/Kg		08/31/22 13:25	08/31/22 17:22	200
Xylenes, Total	**24.9**		0.402		mg/Kg		08/31/22 13:25	08/31/22 15:55	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*68 - 152*	*08/31/22 13:25*	*08/31/22 15:55*	*200*
4-Bromofluorobenzene (Surr)	*81*		*68 - 152*	*08/31/22 13:25*	*08/31/22 17:22*	*200*
Dibromofluoromethane (Surr)	*101*		*53 - 142*	*08/31/22 13:25*	*08/31/22 15:55*	*200*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*08/31/22 13:25*	*08/31/22 17:22*	*200*
1,2-Dichloroethane-d4 (Surr)	*114*		*56 - 150*	*08/31/22 13:25*	*08/31/22 15:55*	*200*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*	*08/31/22 13:25*	*08/31/22 17:22*	*200*
Toluene-d8 (Surr)	*98*		*70 - 130*	*08/31/22 13:25*	*08/31/22 15:55*	*200*
Toluene-d8 (Surr)	*101*		*70 - 130*	*08/31/22 13:25*	*08/31/22 17:22*	*200*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
1,2-Dichlorobenzene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
1,3-Dichlorobenzene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
1,4-Dichlorobenzene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2,4,5-Trichlorophenol	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2,4,6-Trichlorophenol	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2,4-Dichlorophenol	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2,4-Dimethylphenol	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2,4-Dinitrophenol	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2,4-Dinitrotoluene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2,6-Dinitrotoluene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2-Chloronaphthalene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2-Chlorophenol	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Client Sample ID: WC-1 0-0.5

Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18582-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**4.25**		3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2-Methylphenol	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2-Nitroaniline	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
2-Nitrophenol	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
3 & 4 Methylphenol	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
3,3'-Dichlorobenzidine	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
3-Nitroaniline	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
4,6-Dinitro-2-methylphenol	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
4-Bromophenyl phenyl ether	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
4-Chloro-3-methylphenol	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
4-Chloroaniline	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
4-Chlorophenyl phenyl ether	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
4-Nitroaniline	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
4-Nitrophenol	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Acenaphthene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Acenaphthylene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Aniline (Phenylamine, Aminobenzene)	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Anthracene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Benzo[a]anthracene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Benzo[a]pyrene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Benzo[b]fluoranthene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Benzo[g,h,i]perylene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Benzo[k]fluoranthene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Benzoic acid	<20.0	U	20.0		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Butyl benzyl phthalate	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Bis(2-chloroethoxy)methane	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Bis(2-chloroethyl)ether	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
bis (2-chloroisopropyl) ether	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Bis(2-ethylhexyl) phthalate	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Chrysene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Dibenz(a,h)anthracene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Dibenzofuran	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Diethyl phthalate	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Dimethyl phthalate	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Di-n-butyl phthalate	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Di-n-octyl phthalate	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Fluoranthene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Fluorene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Hexachlorobenzene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Hexachlorobutadiene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Hexachlorocyclopentadiene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Hexachloroethane	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Indeno[1,2,3-cd]pyrene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Isophorone	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Naphthalene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Nitrobenzene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
N-Nitrosodi-n-propylamine	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
N-Nitrosodiphenylamine	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Pentachlorophenol	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Client Sample ID: WC-1 0-0.5
Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18582-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Phenol	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Pyrene	<3.33	U	3.33		mg/Kg		09/01/22 10:19	09/03/22 03:13	20
Pyridine	<6.65	U	6.65		mg/Kg		09/01/22 10:19	09/03/22 03:13	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
1,2-Dichlorobenzene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
1,3-Dichlorobenzene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
1,4-Dichlorobenzene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
2,4,5-Trichlorophenol	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
2,4,6-Trichlorophenol	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
2,4-Dichlorophenol	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
2,4-Dimethylphenol	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
2,4-Dinitrophenol	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
2,4-Dinitrotoluene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
2,6-Dinitrotoluene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
2-Chloronaphthalene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
2-Chlorophenol	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
2-Methylnaphthalene	**4.25**		3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
2-Methylphenol	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
2-Nitroaniline	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
2-Nitrophenol	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
3 & 4 Methylphenol	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
3,3'-Dichlorobenzidine	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
3-Nitroaniline	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
4,6-Dinitro-2-methylphenol	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
4-Bromophenyl phenyl ether	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
4-Chloro-3-methylphenol	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
4-Chloroaniline	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
4-Chlorophenyl phenyl ether	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
4-Nitroaniline	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
4-Nitrophenol	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
Acenaphthene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Acenaphthylene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Aniline (Phenylamine, Aminobenzene)	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
Anthracene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Benzo[a]anthracene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Benzo[a]pyrene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Benzo[b]fluoranthene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Benzo[g,h,i]perylene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Benzo[k]fluoranthene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Benzoic acid	<20.0	U	20.0		mg/L		09/01/22 10:19	09/03/22 03:13	20
Butyl benzyl phthalate	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Bis(2-chloroethoxy)methane	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Bis(2-chloroethyl)ether	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
bis (2-chloroisopropyl) ether	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Bis(2-ethylhexyl) phthalate	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
Chrysene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Dibenz(a,h)anthracene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Client Sample ID: WC-1 0-0.5
Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18582-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Diethyl phthalate	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Dimethyl phthalate	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Di-n-butyl phthalate	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Di-n-octyl phthalate	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Fluoranthene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Fluorene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Hexachlorobenzene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Hexachlorobutadiene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Hexachlorocyclopentadiene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Hexachloroethane	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Indeno[1,2,3-cd]pyrene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Isophorone	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Naphthalene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Nitrobenzene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
N-Nitrosodi-n-propylamine	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
N-Nitrosodiphenylamine	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Pentachlorophenol	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
Phenanthrene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Phenol	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20
Pyrene	<3.33	U	3.33		mg/L		09/01/22 10:19	09/03/22 03:13	20
Pyridine	<6.65	U	6.65		mg/L		09/01/22 10:19	09/03/22 03:13	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*205*	*S1+*	*19 - 122*	*09/01/22 10:19*	*09/03/22 03:13*	*20*
2-Fluorobiphenyl (Surr)	*50*		*30 - 115*	*09/01/22 10:19*	*09/03/22 03:13*	*20*
2-Fluorophenol (Surr)	*36*		*25 - 121*	*09/01/22 10:19*	*09/03/22 03:13*	*20*
Nitrobenzene-d5 (Surr)	*84*		*23 - 129*	*09/01/22 10:19*	*09/03/22 03:13*	*20*
p-Terphenyl-d14 (Surr)	*58*		*18 - 137*	*09/01/22 10:19*	*09/03/22 03:13*	*20*
Phenol-d5 (Surr)	*41*		*24 - 113*	*09/01/22 10:19*	*09/03/22 03:13*	*20*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.29**		3.51		mg/Kg		08/31/22 17:46	09/02/22 11:58	10
Antimony	<1.75	U	1.75		mg/Kg		08/31/22 17:46	09/02/22 11:58	10
Barium	**338**		3.51		mg/Kg		08/31/22 17:46	09/02/22 11:58	10
Cadmium	<1.75	U	1.75		mg/Kg		08/31/22 17:46	09/02/22 11:58	10
Chromium	**4.43**		3.51		mg/Kg		08/31/22 17:46	09/02/22 11:58	10
Beryllium	<1.75	U	1.75		mg/Kg		08/31/22 17:46	09/02/22 11:58	10
Lead	**6.05**	**F1**	1.75		mg/Kg		08/31/22 17:46	09/02/22 11:58	10
Nickel	**5.77**		1.75		mg/Kg		08/31/22 17:46	09/02/22 11:58	10
Selenium	<1.75	U	1.75		mg/Kg		08/31/22 17:46	09/02/22 11:58	10
Silver	<1.75	U	1.75		mg/Kg		08/31/22 17:46	09/02/22 11:58	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0192	U	0.0192		mg/Kg		08/31/22 09:03	08/31/22 16:12	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Client Sample ID: WC-1 0-0.5

Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18582-1

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		1.00		Degrees F			08/31/22 15:50	1
Cyanide, Reactive	<0.0248	U	0.0248		mg/Kg		09/01/22 09:39	09/01/22 17:19	1
Sulfide, Reactive	<6.19	U	6.19		mg/Kg		09/01/22 09:39	09/01/22 15:44	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**	**HF**			SU			08/31/22 17:06	1
Temperature	**21.3**	**HF**			Deg. C			08/31/22 17:06	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(68-152)	(53-142)	(56-150)	(70-130)
830-2278-B-1-B MS	Matrix Spike	110	107	116	98
860-32084-A-1-A MS	Matrix Spike	99	93	92	99
880-18582-1	WC-1 0-0.5	103	101	110	102
880-18582-1 - DL	WC-1 0-0.5	108	101	114	98
880-18582-1	WC-1 0-0.5	92	92	96	102
880-18582-1 - DL	WC-1 0-0.5	81	94	95	101
LCS 860-67288/3	Lab Control Sample	111	107	114	99
LCS 860-67289/3	Lab Control Sample	98	95	95	101
LCSD 860-67288/4	Lab Control Sample Dup	110	108	119	99
LCSD 860-67289/4	Lab Control Sample Dup	96	96	97	99
MB 860-67288/9	Method Blank	104	106	123	97
MB 860-67289/8	Method Blank	98	96	99	96

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(19-122)	(30-115)	(25-121)	(23-129)	(18-137)	(24-113)
880-18582-1	WC-1 0-0.5	205 S1+	50	36	84	58	41
LCS 860-67520/2-A	Lab Control Sample	71	69	76	73	74	82
LCSD 860-67520/3-A	Lab Control Sample Dup	81	77	84	81	79	90
MB 860-67520/1-A	Method Blank	68	74	78	75	78	81

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: 860-32084-A-1-A MS
Matrix: Solid
Analysis Batch: 67289

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 66727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.0248	U	1.24	1.269		mg/Kg		103	71 - 119
Bromobenzene	<0.124	U	1.24	1.277		mg/Kg		103	84 - 123
Bromochloromethane	<0.124	U	1.24	1.173		mg/Kg		95	71 - 120
Bromodichloromethane	<0.124	U	1.24	1.213		mg/Kg		98	78 - 126
Bromoform	<0.124	U	1.24	1.146		mg/Kg		93	63 - 136
Bromomethane	<0.124	U F1	1.24	0.5755	F1	mg/Kg		47	73 - 126
2-Butanone	<0.495	U	6.19	5.007		mg/Kg		75	75 - 125
Carbon tetrachloride	<0.124	U	1.24	1.430		mg/Kg		116	63 - 135
Chlorobenzene	<0.124	U	1.24	1.272		mg/Kg		103	83 - 121
Chloroethane	<0.248	U F1	1.24	0.3435	F1	mg/Kg		28	57 - 122
Chloroform	<0.124	U	1.24	1.265		mg/Kg		102	74 - 118
Chloromethane	<0.124	U	1.24	1.286		mg/Kg		104	58 - 110
4-Chlorotoluene	<0.124	U	1.24	1.260		mg/Kg		102	83 - 125
cis-1,2-Dichloroethene	<0.124	U	1.24	1.262		mg/Kg		102	72 - 131
cis-1,3-Dichloropropene	<0.124	U	1.24	1.184		mg/Kg		96	74 - 135
Dibromochloromethane	<0.124	U	1.24	1.220		mg/Kg		99	77 - 130
1,2-Dibromo-3-Chloropropane	<0.124	U	1.24	1.176		mg/Kg		95	58 - 133
1,2-Dibromoethane	<0.124	U	1.24	1.166		mg/Kg		94	73 - 125
1,2-Dichlorobenzene	<0.124	U	1.24	1.271		mg/Kg		103	84 - 121
1,3-Dichlorobenzene	<0.124	U	1.24	1.292		mg/Kg		104	84 - 124
1,4-Dichlorobenzene	<0.124	U	1.24	1.258		mg/Kg		102	82 - 120
Dichlorodifluoromethane	<0.124	U F1	1.24	0.5372	F1	mg/Kg		43	54 - 122
1,1-Dichloroethane	<0.124	U	1.24	1.280		mg/Kg		103	73 - 124
1,2-Dichloroethane	<0.124	U	1.24	1.153		mg/Kg		93	70 - 123
1,1-Dichloroethene	<0.124	U	1.24	1.479		mg/Kg		119	68 - 119
1,2-Dichloropropane	<0.124	U	1.24	1.224		mg/Kg		99	75 - 122
1,3-Dichloropropane	<0.124	U	1.24	1.175		mg/Kg		95	82 - 131
2,2-Dichloropropane	<0.124	U	1.24	1.373		mg/Kg		111	67 - 137
1,1-Dichloropropene	<0.124	U	1.24	1.407		mg/Kg		114	72 - 118
Ethylbenzene	0.0256		1.24	1.326		mg/Kg		105	80 - 123
Hexachlorobutadiene	<0.124	U	1.24	1.283		mg/Kg		104	77 - 130
Isopropylbenzene	<0.124	U	1.24	1.346		mg/Kg		109	55 - 155
Methylene Chloride	<0.495	U	1.24	0.9258		mg/Kg		75	57 - 134
m,p-Xylenes	0.0916		1.24	1.380		mg/Kg		104	78 - 127
MTBE	<0.124	U	1.24	1.137		mg/Kg		92	64 - 148
Naphthalene	<0.248	U *+	1.24	1.847		mg/Kg		149	53 - 162
n-Butylbenzene	<0.124	U	1.24	1.340		mg/Kg		108	82 - 127
N-Propylbenzene	<0.124	U	1.24	1.323		mg/Kg		107	84 - 131
o-Xylene	0.0417		1.24	1.298		mg/Kg		101	79 - 125
p-Cymene (p-Isopropyltoluene)	<0.124	U	1.24	1.332		mg/Kg		108	84 - 130
sec-Butylbenzene	<0.124	U	1.24	1.325		mg/Kg		107	84 - 131
Styrene	<0.124	U	1.24	1.229		mg/Kg		99	80 - 126
tert-Butylbenzene	<0.124	U	1.24	1.313		mg/Kg		106	83 - 132
1,1,1,2-Tetrachloroethane	<0.124	U	1.24	1.276		mg/Kg		103	81 - 127
1,1,2,2-Tetrachloroethane	<0.124	U	1.24	1.044		mg/Kg		84	75 - 133
Tetrachloroethene	<0.124	U	1.24	1.453		mg/Kg		117	79 - 124
Toluene	<0.124	U	1.24	1.348		mg/Kg		109	74 - 122
trans-1,2-Dichloroethene	<0.124	U	1.24	1.310		mg/Kg		106	63 - 110

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: 860-32084-A-1-A MS
Matrix: Solid
Analysis Batch: 67289

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 66727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	<0.124	U	1.24	1.167		mg/Kg		94	73 - 125
1,2,3-Trichlorobenzene	<0.124	U *+ F1	1.24	2.298	F1	mg/Kg		186	75 - 131
1,2,4-Trichlorobenzene	<0.124	U *+ F1	1.24	1.626	F1	mg/Kg		131	79 - 128
1,1,1-Trichloroethane	<0.124	U	1.24	1.406		mg/Kg		114	71 - 124
1,1,2-Trichloroethane	<0.124	U	1.24	1.175		mg/Kg		95	75 - 131
Trichloroethene	<0.124	U	1.24	1.435		mg/Kg		116	78 - 119
Trichlorofluoromethane	<0.124	U F1	1.24	0.6489	F1	mg/Kg		52	71 - 148
1,2,3-Trichloropropane	<0.124	U	1.24	1.077		mg/Kg		87	75 - 131
1,2,4-Trimethylbenzene	<0.124	U	1.24	1.367		mg/Kg		102	60 - 159
1,3,5-Trimethylbenzene	<0.124	U	1.24	1.378		mg/Kg		104	61 - 160
Vinyl chloride	<0.124	U	1.24	0.7478		mg/Kg		60	60 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*93*		*53 - 142*
1,2-Dichloroethane-d4 (Surr)	*92*		*56 - 150*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 860-67288/9
Matrix: Solid
Analysis Batch: 67288

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			08/31/22 13:19	1
Bromobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Bromochloromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Bromodichloromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Bromoform	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Bromomethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
2-Butanone	<0.0200	U	0.0200		mg/Kg			08/31/22 13:19	1
Carbon tetrachloride	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Chlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Chloroethane	<0.0100	U	0.0100		mg/Kg			08/31/22 13:19	1
Chloroform	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Chloromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
4-Chlorotoluene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
cis-1,2-Dichloroethene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
cis-1,3-Dichloropropene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Dibromochloromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,2-Dibromo-3-Chloropropane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,2-Dibromoethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,2-Dichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,3-Dichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,4-Dichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Dichlorodifluoromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,1-Dichloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,2-Dichloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,1-Dichloroethene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: MB 860-67288/9
Matrix: Solid
Analysis Batch: 67288

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,3-Dichloropropane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
2,2-Dichloropropane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,1-Dichloropropene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			08/31/22 13:19	1
Hexachlorobutadiene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Isopropylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Methylene Chloride	<0.0200	U	0.0200		mg/Kg			08/31/22 13:19	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			08/31/22 13:19	1
MTBE	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Naphthalene	<0.0100	U	0.0100		mg/Kg			08/31/22 13:19	1
n-Butylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
N-Propylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			08/31/22 13:19	1
p-Cymene (p-Isopropyltoluene)	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
sec-Butylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Styrene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
tert-Butylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,1,1,2-Tetrachloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,1,2,2-Tetrachloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Tetrachloroethene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Toluene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
trans-1,2-Dichloroethene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
trans-1,3-Dichloropropene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,2,3-Trichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,2,4-Trichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,1,1-Trichloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,1,2-Trichloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Trichloroethene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Trichlorofluoromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,2,3-Trichloropropane	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,2,4-Trimethylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
1,3,5-Trimethylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Vinyl chloride	<0.00500	U	0.00500		mg/Kg			08/31/22 13:19	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			08/31/22 13:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*		*08/31/22 13:19*	*1*
Dibromofluoromethane (Surr)	*106*		*53 - 142*		*08/31/22 13:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*56 - 150*		*08/31/22 13:19*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*08/31/22 13:19*	*1*

Lab Sample ID: LCS 860-67288/3
Matrix: Solid
Analysis Batch: 67288

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04214		mg/Kg		84	66 - 142

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCS 860-67288/3
Matrix: Solid
Analysis Batch: 67288

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	0.0500	0.04834		mg/Kg		97	75 - 130
Bromochloromethane	0.0500	0.04589		mg/Kg		92	71 - 130
Bromodichloromethane	0.0500	0.04775		mg/Kg		96	78 - 130
Bromoform	0.0500	0.04972		mg/Kg		99	63 - 136
Bromomethane	0.0500	0.04603		mg/Kg		92	60 - 140
2-Butanone	0.250	0.3030		mg/Kg		121	75 - 130
Carbon tetrachloride	0.0500	0.04538		mg/Kg		91	63 - 135
Chlorobenzene	0.0500	0.04292		mg/Kg		86	83 - 130
Chloroethane	0.0500	0.05170		mg/Kg		103	57 - 130
Chloroform	0.0500	0.04759		mg/Kg		95	74 - 130
Chloromethane	0.0500	0.05504		mg/Kg		110	58 - 130
4-Chlorotoluene	0.0500	0.05010		mg/Kg		100	83 - 130
cis-1,2-Dichloroethene	0.0500	0.04788		mg/Kg		96	72 - 131
cis-1,3-Dichloropropene	0.0500	0.04730		mg/Kg		95	74 - 135
Dibromochloromethane	0.0500	0.04806		mg/Kg		96	77 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.05769		mg/Kg		115	58 - 133
1,2-Dibromoethane	0.0500	0.04944		mg/Kg		99	73 - 130
1,2-Dichlorobenzene	0.0500	0.04536		mg/Kg		91	84 - 130
1,3-Dichlorobenzene	0.0500	0.04535		mg/Kg		91	84 - 130
1,4-Dichlorobenzene	0.0500	0.04455		mg/Kg		89	82 - 130
1,1-Dichloroethane	0.0500	0.04480		mg/Kg		90	73 - 130
1,2-Dichloroethane	0.0500	0.04943		mg/Kg		99	70 - 130
1,1-Dichloroethene	0.0500	0.03863		mg/Kg		77	68 - 130
1,2-Dichloropropane	0.0500	0.04673		mg/Kg		93	75 - 130
1,3-Dichloropropane	0.0500	0.05163		mg/Kg		103	82 - 131
2,2-Dichloropropane	0.0500	0.04804		mg/Kg		96	67 - 137
1,1-Dichloropropene	0.0500	0.04488		mg/Kg		90	72 - 130
Ethylbenzene	0.0500	0.04519		mg/Kg		90	80 - 130
Hexachlorobutadiene	0.0500	0.04790		mg/Kg		96	77 - 130
Isopropylbenzene	0.0500	0.04490		mg/Kg		90	55 - 155
Methylene Chloride	0.0500	0.04385		mg/Kg		88	57 - 134
m,p-Xylenes	0.0500	0.04435		mg/Kg		89	78 - 130
MTBE	0.0500	0.06142		mg/Kg		123	64 - 148
Naphthalene	0.0500	0.05045		mg/Kg		101	53 - 150
n-Butylbenzene	0.0500	0.04758		mg/Kg		95	82 - 130
N-Propylbenzene	0.0500	0.04818		mg/Kg		96	84 - 131
o-Xylene	0.0500	0.04525		mg/Kg		90	79 - 130
p-Cymene (p-Isopropyltoluene)	0.0500	0.04696		mg/Kg		94	84 - 130
sec-Butylbenzene	0.0500	0.04794		mg/Kg		96	84 - 131
Styrene	0.0500	0.04377		mg/Kg		88	80 - 130
tert-Butylbenzene	0.0500	0.04784		mg/Kg		96	83 - 132
1,1,1,2-Tetrachloroethane	0.0500	0.04692		mg/Kg		94	81 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.05862		mg/Kg		117	75 - 133
Tetrachloroethene	0.0500	0.04013		mg/Kg		80	79 - 130
Toluene	0.0500	0.04131		mg/Kg		83	74 - 130
trans-1,2-Dichloroethene	0.0500	0.04375		mg/Kg		87	63 - 130
trans-1,3-Dichloropropene	0.0500	0.05094		mg/Kg		102	73 - 130
1,2,3-Trichlorobenzene	0.0500	0.05597		mg/Kg		112	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.04854		mg/Kg		97	79 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCS 860-67288/3
Matrix: Solid
Analysis Batch: 67288

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-Trichloroethane			0.0500	0.04631		mg/Kg		93	71 - 130		
1,1,2-Trichloroethane			0.0500	0.05054		mg/Kg		101	75 - 131		
Trichloroethene			0.0500	0.03933		mg/Kg		79	78 - 130		
Trichlorofluoromethane			0.0500	0.05656		mg/Kg		113	71 - 148		
1,2,3-Trichloropropane			0.0500	0.06041		mg/Kg		121	75 - 131		
1,2,4-Trimethylbenzene			0.0500	0.04810		mg/Kg		96	60 - 159		
1,3,5-Trimethylbenzene			0.0500	0.04760		mg/Kg		95	61 - 160		
Vinyl chloride			0.0500	0.05835		mg/Kg		117	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*68 - 152*
Dibromofluoromethane (Surr)	*107*		*53 - 142*
1,2-Dichloroethane-d4 (Surr)	*114*		*56 - 150*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 860-67288/4
Matrix: Solid
Analysis Batch: 67288

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04797		mg/Kg		96	66 - 142	13	25
Bromobenzene			0.0500	0.05365		mg/Kg		107	75 - 130	10	25
Bromochloromethane			0.0500	0.05091		mg/Kg		102	71 - 130	10	25
Bromodichloromethane			0.0500	0.05537		mg/Kg		111	78 - 130	15	25
Bromoform			0.0500	0.05819		mg/Kg		116	63 - 136	16	25
Bromomethane			0.0500	0.04407		mg/Kg		88	60 - 140	4	25
Carbon tetrachloride			0.0500	0.05169		mg/Kg		103	63 - 135	13	25
Chlorobenzene			0.0500	0.04862		mg/Kg		97	83 - 130	12	25
Chloroethane			0.0500	0.04860		mg/Kg		97	57 - 130	6	25
Chloroform			0.0500	0.05405		mg/Kg		108	74 - 130	13	25
Chloromethane			0.0500	0.05157		mg/Kg		103	58 - 130	7	25
4-Chlorotoluene			0.0500	0.05669		mg/Kg		113	83 - 130	12	25
cis-1,2-Dichloroethene			0.0500	0.05459		mg/Kg		109	72 - 131	13	25
cis-1,3-Dichloropropene			0.0500	0.05458		mg/Kg		109	74 - 135	14	25
Dibromochloromethane			0.0500	0.05419		mg/Kg		108	77 - 130	12	25
1,2-Dibromoethane			0.0500	0.05624		mg/Kg		112	73 - 130	13	25
1,2-Dichlorobenzene			0.0500	0.05272		mg/Kg		105	84 - 130	15	25
1,3-Dichlorobenzene			0.0500	0.05154		mg/Kg		103	84 - 130	13	25
1,4-Dichlorobenzene			0.0500	0.05042		mg/Kg		101	82 - 130	12	25
1,1-Dichloroethane			0.0500	0.05184		mg/Kg		104	73 - 130	15	25
1,2-Dichloroethane			0.0500	0.05795		mg/Kg		116	70 - 130	16	25
1,1-Dichloroethene			0.0500	0.04595		mg/Kg		92	68 - 130	17	25
1,2-Dichloropropane			0.0500	0.05268		mg/Kg		105	75 - 130	12	25
1,3-Dichloropropane			0.0500	0.05853		mg/Kg		117	82 - 131	13	25
2,2-Dichloropropane			0.0500	0.05482		mg/Kg		110	67 - 137	13	25
1,1-Dichloropropene			0.0500	0.05109		mg/Kg		102	72 - 130	13	25
Ethylbenzene			0.0500	0.04999		mg/Kg		100	80 - 130	10	25
Hexachlorobutadiene			0.0500	0.05558		mg/Kg		111	77 - 130	15	25

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCSD 860-67288/4
Matrix: Solid
Analysis Batch: 67288

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isopropylbenzene			0.0500	0.05018		mg/Kg		100	55 - 155	11	25
Methylene Chloride			0.0500	0.05218		mg/Kg		104	57 - 134	17	25
m,p-Xylenes			0.0500	0.05039		mg/Kg		101	78 - 130	13	25
MTBE			0.0500	0.06108		mg/Kg		122	64 - 148	1	25
Naphthalene			0.0500	0.05930		mg/Kg		119	53 - 150	16	25
n-Butylbenzene			0.0500	0.05451		mg/Kg		109	82 - 130	14	25
N-Propylbenzene			0.0500	0.05481		mg/Kg		110	84 - 131	13	25
o-Xylene			0.0500	0.05152		mg/Kg		103	79 - 130	13	25
p-Cymene (p-Isopropyltoluene)			0.0500	0.05326		mg/Kg		107	84 - 130	13	25
sec-Butylbenzene			0.0500	0.05453		mg/Kg		109	84 - 131	13	25
Styrene			0.0500	0.05004		mg/Kg		100	80 - 130	13	25
tert-Butylbenzene			0.0500	0.05391		mg/Kg		108	83 - 132	12	25
1,1,1,2-Tetrachloroethane			0.0500	0.05360		mg/Kg		107	81 - 130	13	25
Tetrachloroethene			0.0500	0.04466		mg/Kg		89	79 - 130	11	25
Toluene			0.0500	0.04669		mg/Kg		93	74 - 130	12	25
trans-1,2-Dichloroethene			0.0500	0.04265		mg/Kg		85	63 - 130	3	25
trans-1,3-Dichloropropene			0.0500	0.05904		mg/Kg		118	73 - 130	15	25
1,2,3-Trichlorobenzene			0.0500	0.05303		mg/Kg		106	75 - 131	5	25
1,2,4-Trichlorobenzene			0.0500	0.05531		mg/Kg		111	79 - 130	13	25
1,1,1-Trichloroethane			0.0500	0.05284		mg/Kg		106	71 - 130	13	25
1,1,2-Trichloroethane			0.0500	0.05886		mg/Kg		118	75 - 131	15	25
Trichloroethene			0.0500	0.04497		mg/Kg		90	78 - 130	13	25
Trichlorofluoromethane			0.0500	0.05287		mg/Kg		106	71 - 148	7	25
1,2,4-Trimethylbenzene			0.0500	0.05580		mg/Kg		112	60 - 159	15	25
1,3,5-Trimethylbenzene			0.0500	0.05499		mg/Kg		110	61 - 160	14	25
Vinyl chloride			0.0500	0.05524		mg/Kg		110	60 - 130	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*68 - 152*
Dibromofluoromethane (Surr)	*108*		*53 - 142*
1,2-Dichloroethane-d4 (Surr)	*119*		*56 - 150*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 860-67289/8
Matrix: Solid
Analysis Batch: 67289

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			08/31/22 12:57	1
Bromobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Bromochloromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Bromodichloromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Bromoform	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Bromomethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
2-Butanone	<0.0200	U	0.0200		mg/Kg			08/31/22 12:57	1
Carbon tetrachloride	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Chlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Chloroethane	<0.0100	U	0.0100		mg/Kg			08/31/22 12:57	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: MB 860-67289/8
Matrix: Solid
Analysis Batch: 67289

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Chloromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
4-Chlorotoluene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
cis-1,2-Dichloroethene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
cis-1,3-Dichloropropene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Dibromochloromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,2-Dibromo-3-Chloropropane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,2-Dibromoethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,2-Dichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,3-Dichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,4-Dichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Dichlorodifluoromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,1-Dichloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,2-Dichloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,1-Dichloroethene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,2-Dichloropropane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,3-Dichloropropane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
2,2-Dichloropropane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,1-Dichloropropene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			08/31/22 12:57	1
Hexachlorobutadiene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Isopropylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Methylene Chloride	<0.0200	U	0.0200		mg/Kg			08/31/22 12:57	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			08/31/22 12:57	1
MTBE	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Naphthalene	<0.0100	U	0.0100		mg/Kg			08/31/22 12:57	1
n-Butylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
N-Propylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			08/31/22 12:57	1
p-Cymene (p-Isopropyltoluene)	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
sec-Butylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Styrene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
tert-Butylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,1,1,2-Tetrachloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,1,2,2-Tetrachloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Tetrachloroethene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Toluene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
trans-1,2-Dichloroethene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
trans-1,3-Dichloropropene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,2,3-Trichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,2,4-Trichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,1,1-Trichloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,1,2-Trichloroethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Trichloroethene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Trichlorofluoromethane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,2,3-Trichloropropane	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,2,4-Trimethylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
1,3,5-Trimethylbenzene	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1
Vinyl chloride	<0.00500	U	0.00500		mg/Kg			08/31/22 12:57	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: MB 860-67289/8
Matrix: Solid
Analysis Batch: 67289

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			08/31/22 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*		*08/31/22 12:57*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*08/31/22 12:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*		*08/31/22 12:57*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*08/31/22 12:57*	*1*

Lab Sample ID: LCS 860-67289/3
Matrix: Solid
Analysis Batch: 67289

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04751		mg/Kg		95	66 - 142
Bromobenzene	0.0500	0.05024		mg/Kg		100	75 - 130
Bromochloromethane	0.0500	0.04815		mg/Kg		96	71 - 130
Bromodichloromethane	0.0500	0.04734		mg/Kg		95	78 - 130
Bromoform	0.0500	0.04794		mg/Kg		96	63 - 136
Bromomethane	0.0500	0.05107		mg/Kg		102	60 - 140
2-Butanone	0.250	0.1924		mg/Kg		77	75 - 130
Carbon tetrachloride	0.0500	0.05105		mg/Kg		102	63 - 135
Chlorobenzene	0.0500	0.04931		mg/Kg		99	83 - 130
Chloroethane	0.0500	0.05393		mg/Kg		108	57 - 130
Chloroform	0.0500	0.04757		mg/Kg		95	74 - 130
Chloromethane	0.0500	0.04948		mg/Kg		99	58 - 130
4-Chlorotoluene	0.0500	0.04820		mg/Kg		96	83 - 130
cis-1,2-Dichloroethene	0.0500	0.04675		mg/Kg		94	72 - 131
cis-1,3-Dichloropropene	0.0500	0.04630		mg/Kg		93	74 - 135
Dibromochloromethane	0.0500	0.04878		mg/Kg		98	77 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.05022		mg/Kg		100	58 - 133
1,2-Dibromoethane	0.0500	0.04763		mg/Kg		95	73 - 130
1,2-Dichlorobenzene	0.0500	0.05105		mg/Kg		102	84 - 130
1,3-Dichlorobenzene	0.0500	0.05060		mg/Kg		101	84 - 130
1,4-Dichlorobenzene	0.0500	0.05061		mg/Kg		101	82 - 130
Dichlorodifluoromethane	0.0500	0.04719		mg/Kg		94	54 - 130
1,1-Dichloroethane	0.0500	0.04510		mg/Kg		90	73 - 130
1,2-Dichloroethane	0.0500	0.04711		mg/Kg		94	70 - 130
1,1-Dichloroethene	0.0500	0.05018		mg/Kg		100	68 - 130
1,2-Dichloropropane	0.0500	0.04744		mg/Kg		95	75 - 130
1,3-Dichloropropane	0.0500	0.04764		mg/Kg		95	82 - 131
2,2-Dichloropropane	0.0500	0.04995		mg/Kg		100	67 - 137
1,1-Dichloropropene	0.0500	0.04972		mg/Kg		99	72 - 130
Ethylbenzene	0.0500	0.04924		mg/Kg		98	80 - 130
Hexachlorobutadiene	0.0500	0.05423		mg/Kg		108	77 - 130
Isopropylbenzene	0.0500	0.05007		mg/Kg		100	55 - 155
Methylene Chloride	0.0500	0.03254		mg/Kg		65	57 - 134
m,p-Xylenes	0.0500	0.04838		mg/Kg		97	78 - 130
MTBE	0.0500	0.04485		mg/Kg		90	64 - 148

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCS 860-67289/3
Matrix: Solid
Analysis Batch: 67289

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	0.0500	0.07606	*+	mg/Kg		152	53 - 150
n-Butylbenzene	0.0500	0.05158		mg/Kg		103	82 - 130
N-Propylbenzene	0.0500	0.05017		mg/Kg		100	84 - 131
o-Xylene	0.0500	0.04802		mg/Kg		96	79 - 130
p-Cymene (p-Isopropyltoluene)	0.0500	0.05197		mg/Kg		104	84 - 130
sec-Butylbenzene	0.0500	0.05070		mg/Kg		101	84 - 131
Styrene	0.0500	0.04734		mg/Kg		95	80 - 130
tert-Butylbenzene	0.0500	0.05033		mg/Kg		101	83 - 132
1,1,1,2-Tetrachloroethane	0.0500	0.05006		mg/Kg		100	81 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04419		mg/Kg		88	75 - 133
Tetrachloroethene	0.0500	0.05405		mg/Kg		108	79 - 130
Toluene	0.0500	0.04868		mg/Kg		97	74 - 130
trans-1,2-Dichloroethene	0.0500	0.04782		mg/Kg		96	63 - 130
trans-1,3-Dichloropropene	0.0500	0.04718		mg/Kg		94	73 - 130
1,2,3-Trichlorobenzene	0.0500	0.09419	*+	mg/Kg		188	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.06681	*+	mg/Kg		134	79 - 130
1,1,1-Trichloroethane	0.0500	0.05061		mg/Kg		101	71 - 130
1,1,2-Trichloroethane	0.0500	0.04730		mg/Kg		95	75 - 131
Trichloroethene	0.0500	0.05219		mg/Kg		104	78 - 130
Trichlorofluoromethane	0.0500	0.05198		mg/Kg		104	71 - 148
1,2,3-Trichloropropane	0.0500	0.04329		mg/Kg		87	75 - 131
1,2,4-Trimethylbenzene	0.0500	0.04939		mg/Kg		99	60 - 159
1,3,5-Trimethylbenzene	0.0500	0.04944		mg/Kg		99	61 - 160
Vinyl chloride	0.0500	0.05030		mg/Kg		101	60 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 860-67289/4
Matrix: Solid
Analysis Batch: 67289

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04580		mg/Kg		92	66 - 142	4	25
Bromobenzene	0.0500	0.04708		mg/Kg		94	75 - 130	6	25
Bromochloromethane	0.0500	0.04643		mg/Kg		93	71 - 130	4	25
Bromodichloromethane	0.0500	0.04517		mg/Kg		90	78 - 130	5	25
Bromoform	0.0500	0.04585		mg/Kg		92	63 - 136	4	25
Bromomethane	0.0500	0.05386		mg/Kg		108	60 - 140	5	25
2-Butanone	0.250	0.1906		mg/Kg		76	75 - 130	1	25
Carbon tetrachloride	0.0500	0.04865		mg/Kg		97	63 - 135	5	25
Chlorobenzene	0.0500	0.04689		mg/Kg		94	83 - 130	5	25
Chloroethane	0.0500	0.05847		mg/Kg		117	57 - 130	8	25
Chloroform	0.0500	0.04571		mg/Kg		91	74 - 130	4	25
Chloromethane	0.0500	0.05443		mg/Kg		109	58 - 130	10	25

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCSD 860-67289/4
Matrix: Solid
Analysis Batch: 67289

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Chlorotoluene	0.0500	0.04596		mg/Kg		92	83 - 130	5	25
cis-1,2-Dichloroethene	0.0500	0.04493		mg/Kg		90	72 - 131	4	25
cis-1,3-Dichloropropene	0.0500	0.04506		mg/Kg		90	74 - 135	3	25
Dibromochloromethane	0.0500	0.04733		mg/Kg		95	77 - 130	3	25
1,2-Dibromo-3-Chloropropane	0.0500	0.04777		mg/Kg		96	58 - 133	5	25
1,2-Dibromoethane	0.0500	0.04506		mg/Kg		90	73 - 130	6	25
1,2-Dichlorobenzene	0.0500	0.04790		mg/Kg		96	84 - 130	6	25
1,3-Dichlorobenzene	0.0500	0.04766		mg/Kg		95	84 - 130	6	25
1,4-Dichlorobenzene	0.0500	0.04707		mg/Kg		94	82 - 130	7	25
Dichlorodifluoromethane	0.0500	0.05014		mg/Kg		100	54 - 130	6	25
1,1-Dichloroethane	0.0500	0.04485		mg/Kg		90	73 - 130	1	25
1,2-Dichloroethane	0.0500	0.04516		mg/Kg		90	70 - 130	4	25
1,1-Dichloroethene	0.0500	0.04741		mg/Kg		95	68 - 130	6	25
1,2-Dichloropropane	0.0500	0.04565		mg/Kg		91	75 - 130	4	25
1,3-Dichloropropane	0.0500	0.04557		mg/Kg		91	82 - 131	4	25
2,2-Dichloropropane	0.0500	0.04746		mg/Kg		95	67 - 137	5	25
1,1-Dichloropropene	0.0500	0.04737		mg/Kg		95	72 - 130	5	25
Ethylbenzene	0.0500	0.04689		mg/Kg		94	80 - 130	5	25
Hexachlorobutadiene	0.0500	0.05055		mg/Kg		101	77 - 130	7	25
Isopropylbenzene	0.0500	0.04813		mg/Kg		96	55 - 155	4	25
Methylene Chloride	0.0500	0.03172		mg/Kg		63	57 - 134	3	25
m,p-Xylenes	0.0500	0.04588		mg/Kg		92	78 - 130	5	25
MTBE	0.0500	0.04313		mg/Kg		86	64 - 148	4	25
Naphthalene	0.0500	0.07110		mg/Kg		142	53 - 150	7	25
n-Butylbenzene	0.0500	0.04884		mg/Kg		98	82 - 130	5	25
N-Propylbenzene	0.0500	0.04713		mg/Kg		94	84 - 131	6	25
o-Xylene	0.0500	0.04661		mg/Kg		93	79 - 130	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.04875		mg/Kg		98	84 - 130	6	25
sec-Butylbenzene	0.0500	0.04799		mg/Kg		96	84 - 131	6	25
Styrene	0.0500	0.04511		mg/Kg		90	80 - 130	5	25
tert-Butylbenzene	0.0500	0.04740		mg/Kg		95	83 - 132	6	25
1,1,1,2-Tetrachloroethane	0.0500	0.04831		mg/Kg		97	81 - 130	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04217		mg/Kg		84	75 - 133	5	25
Tetrachloroethene	0.0500	0.04996		mg/Kg		100	79 - 130	8	25
Toluene	0.0500	0.04641		mg/Kg		93	74 - 130	5	25
trans-1,2-Dichloroethene	0.0500	0.04499		mg/Kg		90	63 - 130	6	25
trans-1,3-Dichloropropene	0.0500	0.04475		mg/Kg		89	73 - 130	5	25
1,2,3-Trichlorobenzene	0.0500	0.09142	*+	mg/Kg		183	75 - 131	3	25
1,2,4-Trichlorobenzene	0.0500	0.06214		mg/Kg		124	79 - 130	7	25
1,1,1-Trichloroethane	0.0500	0.04872		mg/Kg		97	71 - 130	4	25
1,1,2-Trichloroethane	0.0500	0.04541		mg/Kg		91	75 - 131	4	25
Trichloroethene	0.0500	0.04951		mg/Kg		99	78 - 130	5	25
Trichlorofluoromethane	0.0500	0.05606		mg/Kg		112	71 - 148	8	25
1,2,3-Trichloropropane	0.0500	0.04163		mg/Kg		83	75 - 131	4	25
1,2,4-Trimethylbenzene	0.0500	0.04675		mg/Kg		93	60 - 159	6	25
1,3,5-Trimethylbenzene	0.0500	0.04672		mg/Kg		93	61 - 160	6	25
Vinyl chloride	0.0500	0.05448		mg/Kg		109	60 - 130	8	25

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCSD 860-67289/4
Matrix: Solid
Analysis Batch: 67289

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		68 - 152
Dibromofluoromethane (Surr)	96		53 - 142
1,2-Dichloroethane-d4 (Surr)	97		56 - 150
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 830-2278-B-1-B MS
Matrix: Solid
Analysis Batch: 67288

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 67317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00100	U	0.0500	0.04575		mg/Kg		91	71 - 119
Bromobenzene	<0.00502	U	0.0500	0.05266		mg/Kg		105	84 - 123
Bromochloromethane	<0.00502	U	0.0500	0.04927		mg/Kg		99	71 - 120
Bromodichloromethane	<0.00502	U	0.0500	0.05286		mg/Kg		106	78 - 126
Bromoform	<0.00502	U	0.0500	0.05487		mg/Kg		110	63 - 136
Bromomethane	<0.00502	U	0.0500	0.03828		mg/Kg		77	73 - 126
2-Butanone	<0.0201	U *+ F1	0.250	0.3274	F1	mg/Kg		131	75 - 125
Carbon tetrachloride	<0.00502	U	0.0500	0.04918		mg/Kg		98	63 - 135
Chlorobenzene	<0.00502	U	0.0500	0.04551		mg/Kg		91	83 - 121
Chloroethane	<0.0100	U	0.0500	0.04288		mg/Kg		86	57 - 122
Chloroform	<0.00502	U	0.0500	0.05069		mg/Kg		101	74 - 118
Chloromethane	<0.00502	U	0.0500	0.04446		mg/Kg		89	58 - 110
4-Chlorotoluene	<0.00502	U	0.0500	0.05336		mg/Kg		107	83 - 125
cis-1,2-Dichloroethene	<0.00502	U	0.0500	0.05178		mg/Kg		104	72 - 131
cis-1,3-Dichloropropene	<0.00502	U	0.0500	0.05136		mg/Kg		103	74 - 135
Dibromochloromethane	<0.00502	U	0.0500	0.05290		mg/Kg		106	77 - 130
1,2-Dibromo-3-Chloropropane	<0.00502	U *+ F1	0.0500	0.07823	F1	mg/Kg		156	58 - 133
1,2-Dibromoethane	<0.00502	U	0.0500	0.05498		mg/Kg		110	73 - 125
1,2-Dichlorobenzene	<0.00502	U	0.0500	0.05652		mg/Kg		113	84 - 121
1,3-Dichlorobenzene	<0.00502	U	0.0500	0.04722		mg/Kg		94	84 - 124
1,4-Dichlorobenzene	<0.00502	U	0.0500	0.04689		mg/Kg		94	82 - 120
Dichlorodifluoromethane	<0.00502	U *+ F1	0.0500	0.06133	F1	mg/Kg		123	54 - 122
1,1-Dichloroethane	<0.00502	U	0.0500	0.04992		mg/Kg		100	73 - 124
1,2-Dichloroethane	<0.00502	U	0.0500	0.05310		mg/Kg		106	70 - 123
1,1-Dichloroethene	<0.00502	U	0.0500	0.04299		mg/Kg		86	68 - 119
1,2-Dichloropropane	<0.00502	U	0.0500	0.05008		mg/Kg		100	75 - 122
1,3-Dichloropropane	<0.00502	U	0.0500	0.05535		mg/Kg		111	82 - 131
2,2-Dichloropropane	<0.00502	U	0.0500	0.05394		mg/Kg		108	67 - 137
1,1-Dichloropropene	<0.00502	U	0.0500	0.04916		mg/Kg		98	72 - 118
Ethylbenzene	<0.00100	U	0.0500	0.04762		mg/Kg		95	80 - 123
Hexachlorobutadiene	<0.00502	U	0.0500	0.04238		mg/Kg		85	77 - 130
Isopropylbenzene	<0.00502	U	0.0500	0.04578		mg/Kg		92	55 - 155
Methylene Chloride	<0.0201	U	0.0500	0.04926		mg/Kg		99	57 - 134
m,p-Xylenes	<0.00201	U	0.0500	0.04651		mg/Kg		93	78 - 127
MTBE	<0.00502	U	0.0500	0.05834		mg/Kg		117	64 - 148
Naphthalene	<0.0100	U	0.0500	0.06091		mg/Kg		122	53 - 162
n-Butylbenzene	<0.00502	U	0.0500	0.05255		mg/Kg		105	82 - 127
N-Propylbenzene	<0.00502	U	0.0500	0.05133		mg/Kg		103	84 - 131

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: 830-2278-B-1-B MS
Matrix: Solid
Analysis Batch: 67288

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 67317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00100	U	0.0500	0.04809		mg/Kg		96	79 - 125
p-Cymene (p-Isopropyltoluene)	<0.00502	U	0.0500	0.04689		mg/Kg		94	84 - 130
sec-Butylbenzene	<0.00502	U	0.0500	0.04840		mg/Kg		97	84 - 131
Styrene	<0.00502	U	0.0500	0.04663		mg/Kg		93	80 - 126
tert-Butylbenzene	<0.00502	U	0.0500	0.04944		mg/Kg		99	83 - 132
1,1,1,2-Tetrachloroethane	<0.00502	U	0.0500	0.04995		mg/Kg		100	81 - 127
1,1,2,2-Tetrachloroethane	<0.00502	U *+	0.0500	0.06438		mg/Kg		129	75 - 133
Tetrachloroethene	<0.00502	U	0.0500	0.04189		mg/Kg		84	79 - 124
Toluene	<0.00502	U	0.0500	0.04452		mg/Kg		89	74 - 122
trans-1,2-Dichloroethene	<0.00502	U	0.0500	0.04059		mg/Kg		81	63 - 110
trans-1,3-Dichloropropene	<0.00502	U	0.0500	0.05509		mg/Kg		110	73 - 125
1,2,3-Trichlorobenzene	<0.00502	U	0.0500	0.05054		mg/Kg		101	75 - 131
1,2,4-Trichlorobenzene	<0.00502	U	0.0500	0.05271		mg/Kg		105	79 - 128
1,1,1-Trichloroethane	<0.00502	U	0.0500	0.05087		mg/Kg		102	71 - 124
1,1,2-Trichloroethane	<0.00502	U	0.0500	0.05518		mg/Kg		110	75 - 131
Trichloroethene	<0.00502	U	0.0500	0.04323		mg/Kg		86	78 - 119
Trichlorofluoromethane	<0.00502	U	0.0500	0.04348		mg/Kg		87	71 - 148
1,2,3-Trichloropropane	<0.00502	U *+	0.0500	0.06906		mg/Kg		131	75 - 131
1,2,4-Trimethylbenzene	<0.00502	U	0.0500	0.05088		mg/Kg		102	60 - 159
1,3,5-Trimethylbenzene	<0.00502	U	0.0500	0.05023		mg/Kg		100	61 - 160
Vinyl chloride	<0.00502	U	0.0500	0.04684		mg/Kg		94	60 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*68 - 152*
Dibromofluoromethane (Surr)	*107*		*53 - 142*
1,2-Dichloroethane-d4 (Surr)	*116*		*56 - 150*
Toluene-d8 (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 860-67520/1-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
1,2-Dichlorobenzene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
1,3-Dichlorobenzene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
1,4-Dichlorobenzene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2,4,5-Trichlorophenol	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2,4,6-Trichlorophenol	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2,4-Dichlorophenol	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2,4-Dimethylphenol	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2,4-Dinitrophenol	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2,4-Dinitrotoluene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2,6-Dinitrotoluene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2-Chloronaphthalene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2-Chlorophenol	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2-Methylnaphthalene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: MB 860-67520/1-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2-Nitroaniline	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
2-Nitrophenol	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
3 & 4 Methylphenol	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
3,3'-Dichlorobenzidine	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
3-Nitroaniline	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
4,6-Dinitro-2-methylphenol	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
4-Bromophenyl phenyl ether	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
4-Chloro-3-methylphenol	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
4-Chloroaniline	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
4-Chlorophenyl phenyl ether	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
4-Nitroaniline	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
4-Nitrophenol	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Acenaphthene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Acenaphthylene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Aniline (Phenylamine, Aminobenzene)	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Anthracene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Benzo[a]anthracene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Benzo[a]pyrene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Benzo[b]fluoranthene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Benzo[g,h,i]perylene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Benzo[k]fluoranthene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Benzoic acid	<1.00	U	1.00		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Butyl benzyl phthalate	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Bis(2-chloroethoxy)methane	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Bis(2-chloroethyl)ether	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
bis (2-chloroisopropyl) ether	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Bis(2-ethylhexyl) phthalate	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Chrysene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Dibenz(a,h)anthracene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Dibenzofuran	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Diethyl phthalate	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Dimethyl phthalate	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Di-n-butyl phthalate	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Di-n-octyl phthalate	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Fluoranthene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Fluorene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Hexachlorobenzene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Hexachlorobutadiene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Hexachlorocyclopentadiene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Hexachloroethane	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Indeno[1,2,3-cd]pyrene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Isophorone	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Naphthalene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Nitrobenzene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
N-Nitrosodi-n-propylamine	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
N-Nitrosodiphenylamine	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Pentachlorophenol	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Phenanthrene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: MB 860-67520/1-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Pyrene	<0.167	U	0.167		mg/Kg		09/01/22 10:19	09/02/22 19:37	1
Pyridine	<0.333	U	0.333		mg/Kg		09/01/22 10:19	09/02/22 19:37	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
1,2-Dichlorobenzene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
1,3-Dichlorobenzene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
1,4-Dichlorobenzene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
2,4,5-Trichlorophenol	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
2,4,6-Trichlorophenol	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
2,4-Dichlorophenol	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
2,4-Dimethylphenol	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
2,4-Dinitrophenol	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
2,4-Dinitrotoluene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
2,6-Dinitrotoluene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
2-Chloronaphthalene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
2-Chlorophenol	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
2-Methylnaphthalene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
2-Methylphenol	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
2-Nitroaniline	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
2-Nitrophenol	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
3 & 4 Methylphenol	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
3,3'-Dichlorobenzidine	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
3-Nitroaniline	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
4,6-Dinitro-2-methylphenol	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
4-Bromophenyl phenyl ether	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
4-Chloro-3-methylphenol	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
4-Chloroaniline	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
4-Chlorophenyl phenyl ether	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
4-Nitroaniline	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
4-Nitrophenol	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
Acenaphthene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Acenaphthylene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Aniline (Phenylamine, Aminobenzene)	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
Anthracene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Benzo[a]anthracene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Benzo[a]pyrene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Benzo[b]fluoranthene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Benzo[g,h,i]perylene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Benzo[k]fluoranthene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Benzoic acid	<1.00	U	1.00		mg/L		09/01/22 10:19	09/02/22 19:37	1
Butyl benzyl phthalate	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Bis(2-chloroethoxy)methane	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Bis(2-chloroethyl)ether	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
bis (2-chloroisopropyl) ether	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Bis(2-ethylhexyl) phthalate	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
Chrysene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Dibenz(a,h)anthracene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: MB 860-67520/1-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Diethyl phthalate	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Dimethyl phthalate	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Di-n-butyl phthalate	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Di-n-octyl phthalate	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Fluoranthene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Fluorene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Hexachlorobenzene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Hexachlorobutadiene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Hexachlorocyclopentadiene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Hexachloroethane	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Indeno[1,2,3-cd]pyrene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Isophorone	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Naphthalene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Nitrobenzene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
N-Nitrosodi-n-propylamine	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
N-Nitrosodiphenylamine	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Pentachlorophenol	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
Phenanthrene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Phenol	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1
Pyrene	<0.167	U	0.167		mg/L		09/01/22 10:19	09/02/22 19:37	1
Pyridine	<0.333	U	0.333		mg/L		09/01/22 10:19	09/02/22 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*19 - 122*	*09/01/22 10:19*	*09/02/22 19:37*	*1*
2-Fluorobiphenyl (Surr)	*74*		*30 - 115*	*09/01/22 10:19*	*09/02/22 19:37*	*1*
2-Fluorophenol (Surr)	*78*		*25 - 121*	*09/01/22 10:19*	*09/02/22 19:37*	*1*
Nitrobenzene-d5 (Surr)	*75*		*23 - 129*	*09/01/22 10:19*	*09/02/22 19:37*	*1*
p-Terphenyl-d14 (Surr)	*78*		*18 - 137*	*09/01/22 10:19*	*09/02/22 19:37*	*1*
Phenol-d5 (Surr)	*81*		*24 - 113*	*09/01/22 10:19*	*09/02/22 19:37*	*1*

Lab Sample ID: LCS 860-67520/2-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	1.33	1.029		mg/Kg		77	35 - 129
1,2-Dichlorobenzene	1.33	1.057		mg/Kg		79	38 - 122
1,3-Dichlorobenzene	1.33	1.036		mg/Kg		78	38 - 120
1,4-Dichlorobenzene	1.33	1.020		mg/Kg		76	37 - 121
2,4,5-Trichlorophenol	1.33	1.085		mg/Kg		81	40 - 135
2,4,6-Trichlorophenol	1.33	1.098		mg/Kg		82	39 - 139
2,4-Dichlorophenol	1.33	1.168		mg/Kg		88	36 - 135
2,4-Dimethylphenol	1.33	1.201		mg/Kg		90	38 - 133
2,4-Dinitrophenol	1.33	1.008		mg/Kg		76	19 - 131
2,4-Dinitrotoluene	1.33	1.106		mg/Kg		83	48 - 131
2,6-Dinitrotoluene	1.33	1.084		mg/Kg		81	42 - 136
2-Chloronaphthalene	1.33	1.094		mg/Kg		82	32 - 138

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCS 860-67520/2-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorophenol	1.33	1.166		mg/Kg		87	38 - 125
2-Methylnaphthalene	1.33	1.074		mg/Kg		81	36 - 126
2-Methylphenol	1.33	1.255		mg/Kg		94	37 - 128
2-Nitroaniline	1.33	1.162		mg/Kg		87	30 - 133
2-Nitrophenol	1.33	1.162		mg/Kg		87	33 - 142
3 & 4 Methylphenol	1.33	1.257		mg/Kg		94	38 - 126
3,3'-Dichlorobenzidine	1.33	0.9059		mg/Kg		68	35 - 134
3-Nitroaniline	1.33	1.067		mg/Kg		80	41 - 135
4,6-Dinitro-2-methylphenol	1.33	1.021		mg/Kg		77	30 - 146
4-Bromophenyl phenyl ether	1.33	1.091		mg/Kg		82	37 - 140
4-Chloro-3-methylphenol	1.33	1.237		mg/Kg		93	40 - 134
4-Chloroaniline	1.33	1.132		mg/Kg		85	34 - 124
4-Chlorophenyl phenyl ether	1.33	1.075		mg/Kg		81	41 - 131
4-Nitroaniline	1.33	1.083		mg/Kg		81	46 - 132
4-Nitrophenol	1.33	0.9848		mg/Kg		74	21 - 152
Acenaphthene	1.33	1.048		mg/Kg		79	37 - 131
Acenaphthylene	1.33	1.114		mg/Kg		84	39 - 129
Aniline (Phenylamine, Aminobenzene)	1.33	1.152		mg/Kg		86	33 - 117
Anthracene	1.33	1.137		mg/Kg		85	39 - 139
Benzo[a]anthracene	1.33	1.077		mg/Kg		81	44 - 135
Benzo[a]pyrene	1.33	1.038		mg/Kg		78	43 - 153
Benzo[b]fluoranthene	1.33	1.075		mg/Kg		81	40 - 153
Benzo[g,h,i]perylene	1.33	1.177		mg/Kg		88	40 - 153
Benzo[k]fluoranthene	1.33	1.090		mg/Kg		82	33 - 156
Benzoic acid	4.00	1.856		mg/Kg		46	31 - 165
Butyl benzyl phthalate	1.33	1.141		mg/Kg		86	43 - 145
Bis(2-chloroethoxy)methane	1.33	1.191		mg/Kg		89	30 - 129
Bis(2-chloroethyl)ether	1.33	1.204		mg/Kg		90	33 - 127
bis (2-chloroisopropyl) ether	1.33	1.124		mg/Kg		84	25 - 124
Bis(2-ethylhexyl) phthalate	1.33	1.174		mg/Kg		88	46 - 145
Chrysene	1.33	1.056		mg/Kg		79	42 - 135
Dibenz(a,h)anthracene	1.33	1.066		mg/Kg		80	41 - 155
Dibenzofuran	1.33	1.072		mg/Kg		80	39 - 132
Diethyl phthalate	1.33	1.152		mg/Kg		86	45 - 131
Dimethyl phthalate	1.33	1.118		mg/Kg		84	43 - 132
Di-n-butyl phthalate	1.33	1.166		mg/Kg		87	43 - 142
Di-n-octyl phthalate	1.33	1.121		mg/Kg		84	34 - 166
Fluoranthene	1.33	1.136		mg/Kg		85	41 - 138
Fluorene	1.33	1.104		mg/Kg		83	41 - 131
Hexachlorobenzene	1.33	1.090		mg/Kg		82	36 - 142
Hexachlorobutadiene	1.33	1.012		mg/Kg		76	35 - 129
Hexachlorocyclopentadiene	1.33	0.8636		mg/Kg		65	16 - 106
Hexachloroethane	1.33	1.141		mg/Kg		86	36 - 121
Indeno[1,2,3-cd]pyrene	1.33	1.086		mg/Kg		81	39 - 154
Isophorone	1.33	1.194		mg/Kg		90	36 - 128
Naphthalene	1.33	1.061		mg/Kg		80	35 - 128
Nitrobenzene	1.33	1.159		mg/Kg		87	32 - 129
N-Nitrosodi-n-propylamine	1.33	1.217		mg/Kg		91	34 - 129

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCS 860-67520/2-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodiphenylamine	1.33	1.153		mg/Kg		86	27 - 155
Pentachlorophenol	1.33	1.111		mg/Kg		83	14 - 148
Phenanthrene	1.33	1.069		mg/Kg		80	37 - 139
Phenol	1.33	1.243		mg/Kg		93	34 - 127
Pyrene	1.33	1.123		mg/Kg		84	42 - 138
Pyridine	1.33	0.8939		mg/Kg		67	30 - 113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	1.33	1.029		mg/L		77	35 - 129
1,2-Dichlorobenzene	1.33	1.057		mg/L		79	38 - 122
1,3-Dichlorobenzene	1.33	1.036		mg/L		78	38 - 120
1,4-Dichlorobenzene	1.33	1.020		mg/L		76	37 - 121
2,4,5-Trichlorophenol	1.33	1.085		mg/L		81	40 - 135
2,4,6-Trichlorophenol	1.33	1.098		mg/L		82	39 - 139
2,4-Dichlorophenol	1.33	1.168		mg/L		88	36 - 135
2,4-Dimethylphenol	1.33	1.201		mg/L		90	38 - 133
2,4-Dinitrophenol	1.33	1.008		mg/L		76	19 - 131
2,4-Dinitrotoluene	1.33	1.106		mg/L		83	48 - 131
2,6-Dinitrotoluene	1.33	1.084		mg/L		81	42 - 136
2-Chloronaphthalene	1.33	1.094		mg/L		82	32 - 138
2-Chlorophenol	1.33	1.166		mg/L		87	38 - 125
2-Methylnaphthalene	1.33	1.074		mg/L		81	36 - 126
2-Methylphenol	1.33	1.255		mg/L		94	37 - 128
2-Nitroaniline	1.33	1.162		mg/L		87	30 - 133
2-Nitrophenol	1.33	1.162		mg/L		87	33 - 142
3 & 4 Methylphenol	1.33	1.257		mg/L		94	38 - 126
3,3'-Dichlorobenzidine	1.33	0.9059		mg/L		68	35 - 134
3-Nitroaniline	1.33	1.067		mg/L		80	41 - 135
4,6-Dinitro-2-methylphenol	1.33	1.021		mg/L		77	30 - 146
4-Bromophenyl phenyl ether	1.33	1.091		mg/L		82	37 - 140
4-Chloro-3-methylphenol	1.33	1.237		mg/L		93	40 - 134
4-Chloroaniline	1.33	1.132		mg/L		85	34 - 124
4-Chlorophenyl phenyl ether	1.33	1.075		mg/L		81	41 - 131
4-Nitroaniline	1.33	1.083		mg/L		81	46 - 132
4-Nitrophenol	1.33	0.9848		mg/L		74	21 - 152
Acenaphthene	1.33	1.048		mg/L		79	37 - 131
Acenaphthylene	1.33	1.114		mg/L		84	39 - 129
Aniline (Phenylamine, Aminobenzene)	1.33	1.152		mg/L		86	33 - 117
Anthracene	1.33	1.137		mg/L		85	39 - 139
Benzo[a]anthracene	1.33	1.077		mg/L		81	44 - 135
Benzo[a]pyrene	1.33	1.038		mg/L		78	43 - 153
Benzo[b]fluoranthene	1.33	1.075		mg/L		81	40 - 153
Benzo[g,h,i]perylene	1.33	1.177		mg/L		88	40 - 153
Benzo[k]fluoranthene	1.33	1.090		mg/L		82	33 - 156
Benzoic acid	4.00	1.856		mg/L		46	31 - 165
Butyl benzyl phthalate	1.33	1.141		mg/L		86	43 - 145
Bis(2-chloroethoxy)methane	1.33	1.191		mg/L		89	30 - 129
Bis(2-chloroethyl)ether	1.33	1.204		mg/L		90	33 - 127

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCS 860-67520/2-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
bis (2-chloroisopropyl) ether	1.33	1.124		mg/L		84	25 - 124
Bis(2-ethylhexyl) phthalate	1.33	1.174		mg/L		88	46 - 145
Chrysene	1.33	1.056		mg/L		79	42 - 135
Dibenz(a,h)anthracene	1.33	1.066		mg/L		80	41 - 155
Dibenzofuran	1.33	1.072		mg/L		80	39 - 132
Diethyl phthalate	1.33	1.152		mg/L		86	45 - 131
Dimethyl phthalate	1.33	1.118		mg/L		84	43 - 132
Di-n-butyl phthalate	1.33	1.166		mg/L		87	43 - 142
Di-n-octyl phthalate	1.33	1.121		mg/L		84	34 - 166
Fluoranthene	1.33	1.136		mg/L		85	41 - 138
Fluorene	1.33	1.104		mg/L		83	41 - 131
Hexachlorobenzene	1.33	1.090		mg/L		82	36 - 142
Hexachlorobutadiene	1.33	1.012		mg/L		76	35 - 129
Hexachlorocyclopentadiene	1.33	0.8636		mg/L		65	16 - 106
Hexachloroethane	1.33	1.141		mg/L		86	36 - 121
Indeno[1,2,3-cd]pyrene	1.33	1.086		mg/L		81	39 - 154
Isophorone	1.33	1.194		mg/L		90	36 - 128
Naphthalene	1.33	1.061		mg/L		80	35 - 128
Nitrobenzene	1.33	1.159		mg/L		87	32 - 129
N-Nitrosodi-n-propylamine	1.33	1.217		mg/L		91	34 - 129
N-Nitrosodiphenylamine	1.33	1.153		mg/L		86	27 - 155
Pentachlorophenol	1.33	1.111		mg/L		83	14 - 148
Phenanthrene	1.33	1.069		mg/L		80	37 - 139
Phenol	1.33	1.243		mg/L		93	34 - 127
Pyrene	1.33	1.123		mg/L		84	42 - 138
Pyridine	1.33	0.8939		mg/L		67	30 - 113

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*71*		*19 - 122*
2-Fluorobiphenyl (Surr)	*69*		*30 - 115*
2-Fluorophenol (Surr)	*76*		*25 - 121*
Nitrobenzene-d5 (Surr)	*73*		*23 - 129*
p-Terphenyl-d14 (Surr)	*74*		*18 - 137*
Phenol-d5 (Surr)	*82*		*24 - 113*

Lab Sample ID: LCSD 860-67520/3-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1.33	1.085		mg/Kg		81	35 - 129	5	30
1,2-Dichlorobenzene	1.33	1.107		mg/Kg		83	38 - 122	5	30
1,3-Dichlorobenzene	1.33	1.093		mg/Kg		82	38 - 120	5	30
1,4-Dichlorobenzene	1.33	1.090		mg/Kg		82	37 - 121	7	30
2,4,5-Trichlorophenol	1.33	1.186		mg/Kg		89	40 - 135	9	30
2,4,6-Trichlorophenol	1.33	1.187		mg/Kg		89	39 - 139	8	30
2,4-Dichlorophenol	1.33	1.263		mg/Kg		95	36 - 135	8	30
2,4-Dimethylphenol	1.33	1.270		mg/Kg		95	38 - 133	6	30

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCSD 860-67520/3-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dinitrophenol	1.33	1.097		mg/Kg		82	19 - 131	8	40
2,4-Dinitrotoluene	1.33	1.198		mg/Kg		90	48 - 131	8	30
2,6-Dinitrotoluene	1.33	1.171		mg/Kg		88	42 - 136	8	30
2-Chloronaphthalene	1.33	1.193		mg/Kg		89	32 - 138	9	30
2-Chlorophenol	1.33	1.237		mg/Kg		93	38 - 125	6	30
2-Methylnaphthalene	1.33	1.151		mg/Kg		86	36 - 126	7	30
2-Methylphenol	1.33	1.351		mg/Kg		101	37 - 128	7	30
2-Nitroaniline	1.33	1.269		mg/Kg		95	30 - 133	9	40
2-Nitrophenol	1.33	1.243		mg/Kg		93	33 - 142	7	30
3 & 4 Methylphenol	1.33	1.328		mg/Kg		100	38 - 126	5	30
3,3'-Dichlorobenzidine	1.33	0.9629		mg/Kg		72	35 - 134	6	40
3-Nitroaniline	1.33	1.152		mg/Kg		86	41 - 135	8	40
4,6-Dinitro-2-methylphenol	1.33	1.093		mg/Kg		82	30 - 146	7	40
4-Bromophenyl phenyl ether	1.33	1.185		mg/Kg		89	37 - 140	8	30
4-Chloro-3-methylphenol	1.33	1.333		mg/Kg		100	40 - 134	7	30
4-Chloroaniline	1.33	1.207		mg/Kg		91	34 - 124	6	40
4-Chlorophenyl phenyl ether	1.33	1.143		mg/Kg		86	41 - 131	6	30
4-Nitroaniline	1.33	1.168		mg/Kg		88	46 - 132	8	40
4-Nitrophenol	1.33	1.083		mg/Kg		81	21 - 152	9	40
Acenaphthene	1.33	1.182		mg/Kg		89	37 - 131	12	30
Acenaphthylene	1.33	1.194		mg/Kg		90	39 - 129	7	30
Aniline (Phenylamine, Aminobenzene)	1.33	1.222		mg/Kg		92	33 - 117	6	40
Anthracene	1.33	1.211		mg/Kg		91	39 - 139	6	30
Benzo[a]anthracene	1.33	1.130		mg/Kg		85	44 - 135	5	30
Benzo[a]pyrene	1.33	1.086		mg/Kg		81	43 - 153	5	30
Benzo[b]fluoranthene	1.33	1.119		mg/Kg		84	40 - 153	4	30
Benzo[g,h,i]perylene	1.33	1.264		mg/Kg		95	40 - 153	7	30
Benzo[k]fluoranthene	1.33	1.126		mg/Kg		84	33 - 156	3	30
Benzoic acid	4.00	2.103		mg/Kg		53	31 - 165	12	50
Butyl benzyl phthalate	1.33	1.211		mg/Kg		91	43 - 145	6	30
Bis(2-chloroethoxy)methane	1.33	1.268		mg/Kg		95	30 - 129	6	30
Bis(2-chloroethyl)ether	1.33	1.258		mg/Kg		94	33 - 127	4	30
bis (2-chloroisopropyl) ether	1.33	1.182		mg/Kg		89	25 - 124	5	30
Bis(2-ethylhexyl) phthalate	1.33	1.242		mg/Kg		93	46 - 145	6	30
Chrysene	1.33	1.126		mg/Kg		84	42 - 135	6	30
Dibenz(a,h)anthracene	1.33	1.104		mg/Kg		83	41 - 155	4	30
Dibenzofuran	1.33	1.157		mg/Kg		87	39 - 132	8	30
Diethyl phthalate	1.33	1.236		mg/Kg		93	45 - 131	7	30
Dimethyl phthalate	1.33	1.198		mg/Kg		90	43 - 132	7	30
Di-n-butyl phthalate	1.33	1.232		mg/Kg		92	43 - 142	6	30
Di-n-octyl phthalate	1.33	1.169		mg/Kg		88	34 - 166	4	30
Fluoranthene	1.33	1.190		mg/Kg		89	41 - 138	5	30
Fluorene	1.33	1.198		mg/Kg		90	41 - 131	8	30
Hexachlorobenzene	1.33	1.158		mg/Kg		87	36 - 142	6	30
Hexachlorobutadiene	1.33	1.084		mg/Kg		81	35 - 129	7	30
Hexachlorocyclopentadiene	1.33	0.9621		mg/Kg		72	16 - 106	11	30
Hexachloroethane	1.33	1.191		mg/Kg		89	36 - 121	4	30
Indeno[1,2,3-cd]pyrene	1.33	1.145		mg/Kg		86	39 - 154	5	30

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCSD 860-67520/3-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isophorone			1.33	1.270		mg/Kg		95	36 - 128	6	30
Naphthalene			1.33	1.142		mg/Kg		86	35 - 128	7	30
Nitrobenzene			1.33	1.235		mg/Kg		93	32 - 129	6	30
N-Nitrosodi-n-propylamine			1.33	1.291		mg/Kg		97	34 - 129	6	30
N-Nitrosodiphenylamine			1.33	1.218		mg/Kg		91	27 - 155	6	30
Pentachlorophenol			1.33	1.153		mg/Kg		86	14 - 148	4	40
Phenanthrene			1.33	1.135		mg/Kg		85	37 - 139	6	30
Phenol			1.33	1.333		mg/Kg		100	34 - 127	7	40
Pyrene			1.33	1.170		mg/Kg		88	42 - 138	4	30
Pyridine			1.33	0.9578		mg/Kg		72	30 - 113	7	40

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			1.33	1.085		mg/L		81	35 - 129	5	30
1,2-Dichlorobenzene			1.33	1.107		mg/L		83	38 - 122	5	30
1,3-Dichlorobenzene			1.33	1.093		mg/L		82	38 - 120	5	30
1,4-Dichlorobenzene			1.33	1.090		mg/L		82	37 - 121	7	30
2,4,5-Trichlorophenol			1.33	1.186		mg/L		89	40 - 135	9	30
2,4,6-Trichlorophenol			1.33	1.187		mg/L		89	39 - 139	8	30
2,4-Dichlorophenol			1.33	1.263		mg/L		95	36 - 135	8	30
2,4-Dimethylphenol			1.33	1.270		mg/L		95	38 - 133	6	30
2,4-Dinitrophenol			1.33	1.097		mg/L		82	19 - 131	8	40
2,4-Dinitrotoluene			1.33	1.198		mg/L		90	48 - 131	8	30
2,6-Dinitrotoluene			1.33	1.171		mg/L		88	42 - 136	8	30
2-Chloronaphthalene			1.33	1.193		mg/L		89	32 - 138	9	30
2-Chlorophenol			1.33	1.237		mg/L		93	38 - 125	6	30
2-Methylnaphthalene			1.33	1.151		mg/L		86	36 - 126	7	30
2-Methylphenol			1.33	1.351		mg/L		101	37 - 128	7	30
2-Nitroaniline			1.33	1.269		mg/L		95	30 - 133	9	40
2-Nitrophenol			1.33	1.243		mg/L		93	33 - 142	7	30
3 & 4 Methylphenol			1.33	1.328		mg/L		100	38 - 126	5	30
3,3'-Dichlorobenzidine			1.33	0.9629		mg/L		72	35 - 134	6	40
3-Nitroaniline			1.33	1.152		mg/L		86	41 - 135	8	40
4,6-Dinitro-2-methylphenol			1.33	1.093		mg/L		82	30 - 146	7	40
4-Bromophenyl phenyl ether			1.33	1.185		mg/L		89	37 - 140	8	30
4-Chloro-3-methylphenol			1.33	1.333		mg/L		100	40 - 134	7	30
4-Chloroaniline			1.33	1.207		mg/L		91	34 - 124	6	40
4-Chlorophenyl phenyl ether			1.33	1.143		mg/L		86	41 - 131	6	30
4-Nitroaniline			1.33	1.168		mg/L		88	46 - 132	8	40
4-Nitrophenol			1.33	1.083		mg/L		81	21 - 152	9	40
Acenaphthene			1.33	1.182		mg/L		89	37 - 131	12	30
Acenaphthylene			1.33	1.194		mg/L		90	39 - 129	7	30
Aniline (Phenylamine, Aminobenzene)			1.33	1.222		mg/L		92	33 - 117	6	40
Anthracene			1.33	1.211		mg/L		91	39 - 139	6	30
Benzo[a]anthracene			1.33	1.130		mg/L		85	44 - 135	5	30
Benzo[a]pyrene			1.33	1.086		mg/L		81	43 - 153	5	30
Benzo[b]fluoranthene			1.33	1.119		mg/L		84	40 - 153	4	30
Benzo[g,h,i]perylene			1.33	1.264		mg/L		95	40 - 153	7	30
Benzo[k]fluoranthene			1.33	1.126		mg/L		84	33 - 156	3	30

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: LCSD 860-67520/3-A
Matrix: Solid
Analysis Batch: 67749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzoic acid			4.00	2.103		mg/L		53	31 - 165	12	50
Butyl benzyl phthalate			1.33	1.211		mg/L		91	43 - 145	6	30
Bis(2-chloroethoxy)methane			1.33	1.268		mg/L		95	30 - 129	6	30
Bis(2-chloroethyl)ether			1.33	1.258		mg/L		94	33 - 127	4	30
bis (2-chloroisopropyl) ether			1.33	1.182		mg/L		89	25 - 124	5	30
Bis(2-ethylhexyl) phthalate			1.33	1.242		mg/L		93	46 - 145	6	30
Chrysene			1.33	1.126		mg/L		84	42 - 135	6	30
Dibenz(a,h)anthracene			1.33	1.104		mg/L		83	41 - 155	4	30
Dibenzofuran			1.33	1.157		mg/L		87	39 - 132	8	30
Diethyl phthalate			1.33	1.236		mg/L		93	45 - 131	7	30
Dimethyl phthalate			1.33	1.198		mg/L		90	43 - 132	7	30
Di-n-butyl phthalate			1.33	1.232		mg/L		92	43 - 142	6	30
Di-n-octyl phthalate			1.33	1.169		mg/L		88	34 - 166	4	30
Fluoranthene			1.33	1.190		mg/L		89	41 - 138	5	30
Fluorene			1.33	1.198		mg/L		90	41 - 131	8	30
Hexachlorobenzene			1.33	1.158		mg/L		87	36 - 142	6	30
Hexachlorobutadiene			1.33	1.084		mg/L		81	35 - 129	7	30
Hexachlorocyclopentadiene			1.33	0.9621		mg/L		72	16 - 106	11	30
Hexachloroethane			1.33	1.191		mg/L		89	36 - 121	4	30
Indeno[1,2,3-cd]pyrene			1.33	1.145		mg/L		86	39 - 154	5	30
Isophorone			1.33	1.270		mg/L		95	36 - 128	6	30
Naphthalene			1.33	1.142		mg/L		86	35 - 128	7	30
Nitrobenzene			1.33	1.235		mg/L		93	32 - 129	6	30
N-Nitrosodi-n-propylamine			1.33	1.291		mg/L		97	34 - 129	6	30
N-Nitrosodiphenylamine			1.33	1.218		mg/L		91	27 - 155	6	30
Pentachlorophenol			1.33	1.153		mg/L		86	14 - 148	4	40
Phenanthrene			1.33	1.135		mg/L		85	37 - 139	6	30
Phenol			1.33	1.333		mg/L		100	34 - 127	7	40
Pyrene			1.33	1.170		mg/L		88	42 - 138	4	30
Pyridine			1.33	0.9578		mg/L		72	30 - 113	7	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*81*		*19 - 122*
2-Fluorobiphenyl (Surr)	*77*		*30 - 115*
2-Fluorophenol (Surr)	*84*		*25 - 121*
Nitrobenzene-d5 (Surr)	*81*		*23 - 129*
p-Terphenyl-d14 (Surr)	*79*		*18 - 137*
Phenol-d5 (Surr)	*90*		*24 - 113*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-67434/1-A
Matrix: Solid
Analysis Batch: 67746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.385	U	0.385		mg/Kg		08/31/22 17:46	09/02/22 11:49	1
Antimony	<0.192	U	0.192		mg/Kg		08/31/22 17:46	09/02/22 11:49	1
Barium	<0.385	U	0.385		mg/Kg		08/31/22 17:46	09/02/22 11:49	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: MB 860-67434/1-A
Matrix: Solid
Analysis Batch: 67746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.192	U	0.192		mg/Kg		08/31/22 17:46	09/02/22 11:49	1
Chromium	<0.385	U	0.385		mg/Kg		08/31/22 17:46	09/02/22 11:49	1
Beryllium	<0.192	U	0.192		mg/Kg		08/31/22 17:46	09/02/22 11:49	1
Lead	<0.192	U	0.192		mg/Kg		08/31/22 17:46	09/02/22 11:49	1
Nickel	<0.192	U	0.192		mg/Kg		08/31/22 17:46	09/02/22 11:49	1
Selenium	<0.192	U	0.192		mg/Kg		08/31/22 17:46	09/02/22 11:49	1
Silver	<0.192	U	0.192		mg/Kg		08/31/22 17:46	09/02/22 11:49	1

Lab Sample ID: LCS 860-67434/2-A
Matrix: Solid
Analysis Batch: 67746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	10.24		mg/Kg		102	80 - 120
Antimony	10.0	10.46		mg/Kg		105	80 - 120
Barium	10.0	9.987		mg/Kg		100	80 - 120
Cadmium	10.0	10.05		mg/Kg		101	80 - 120
Chromium	10.0	10.05		mg/Kg		100	80 - 120
Beryllium	10.0	9.240		mg/Kg		92	80 - 120
Lead	10.0	9.892		mg/Kg		99	80 - 120
Nickel	10.0	10.11		mg/Kg		101	80 - 120
Selenium	10.0	10.02		mg/Kg		100	80 - 120
Silver	5.00	5.371		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 860-67434/3-A
Matrix: Solid
Analysis Batch: 67746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67434

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	10.0	10.22		mg/Kg		102	80 - 120	0	20
Antimony	10.0	10.44		mg/Kg		104	80 - 120	0	20
Barium	10.0	10.02		mg/Kg		100	80 - 120	0	20
Cadmium	10.0	10.02		mg/Kg		100	80 - 120	0	20
Chromium	10.0	10.02		mg/Kg		100	80 - 120	0	20
Beryllium	10.0	9.415		mg/Kg		94	80 - 120	2	20
Lead	10.0	9.903		mg/Kg		99	80 - 120	0	20
Nickel	10.0	10.13		mg/Kg		101	80 - 120	0	20
Selenium	10.0	10.01		mg/Kg		100	80 - 120	0	20
Silver	5.00	5.366		mg/Kg		107	80 - 120	0	20

Lab Sample ID: 880-18582-1 MS
Matrix: Solid
Analysis Batch: 67746

Client Sample ID: WC-1 0-0.5
Prep Type: Total/NA
Prep Batch: 67434

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.29		8.62	11.37		mg/Kg		82	75 - 125
Antimony	<1.75	U	8.62	8.780		mg/Kg		96	75 - 125
Barium	338		8.62	290.9	4	mg/Kg		-545	75 - 125
Cadmium	<1.75	U	8.62	7.616		mg/Kg		88	75 - 125

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

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

Lab Sample ID: 880-18582-1 MS
Matrix: Solid
Analysis Batch: 67746

Client Sample ID: WC-1 0-0.5
Prep Type: Total/NA
Prep Batch: 67434

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	4.43		8.62	11.11		mg/Kg		77	75 - 125
Beryllium	<1.75	U	8.62	7.237		mg/Kg		81	75 - 125
Lead	6.05	F1	8.62	11.00	F1	mg/Kg		57	75 - 125
Nickel	5.77		8.62	12.65		mg/Kg		80	75 - 125
Selenium	<1.75	U	8.62	8.775		mg/Kg		88	75 - 125
Silver	<1.75	U	4.31	4.016		mg/Kg		93	75 - 125

Lab Sample ID: 880-18582-1 MSD
Matrix: Solid
Analysis Batch: 67746

Client Sample ID: WC-1 0-0.5
Prep Type: Total/NA
Prep Batch: 67434

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	4.29		8.77	11.91		mg/Kg		87	75 - 125	5	20
Antimony	<1.75	U	8.77	8.702		mg/Kg		94	75 - 125	1	20
Barium	338		8.77	303.7	4	mg/Kg		-389	75 - 125	4	20
Cadmium	<1.75	U	8.77	7.708		mg/Kg		88	75 - 125	1	20
Chromium	4.43		8.77	11.62		mg/Kg		82	75 - 125	4	20
Beryllium	<1.75	U	8.77	7.383		mg/Kg		81	75 - 125	2	20
Lead	6.05	F1	8.77	11.07	F1	mg/Kg		57	75 - 125	1	20
Nickel	5.77		8.77	13.32		mg/Kg		86	75 - 125	5	20
Selenium	<1.75	U	8.77	9.399		mg/Kg		93	75 - 125	7	20
Silver	<1.75	U	4.39	3.867		mg/Kg		88	75 - 125	4	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 860-67295/10-A
Matrix: Solid
Analysis Batch: 67422

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0189	U	0.0189		mg/Kg		08/31/22 09:03	08/31/22 15:21	1

Lab Sample ID: LCS 860-67295/11-A
Matrix: Solid
Analysis Batch: 67422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.192	0.1906		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 860-67295/12-A
Matrix: Solid
Analysis Batch: 67422

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67295

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.192	0.1890		mg/Kg		98	80 - 120	1	20

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 860-32127-A-4-B MS
Matrix: Solid
Analysis Batch: 67422

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 67295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.0185	U	0.192	0.1916		mg/Kg		100	75 - 125

Lab Sample ID: 860-32127-A-4-C MSD
Matrix: Solid
Analysis Batch: 67422

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 67295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.0185	U	0.185	0.1841		mg/Kg		99	75 - 125	4	20

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: 880-18582-1 DU
Matrix: Solid
Analysis Batch: 67404

Client Sample ID: WC-1 0-0.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>180		>180.0		Degrees F		NC	25

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 860-67533/1-A
Matrix: Solid
Analysis Batch: 68109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	<0.0250	U	0.0250		mg/Kg		09/01/22 09:39	09/01/22 17:15	1

Lab Sample ID: LCS 860-67533/2-A
Matrix: Solid
Analysis Batch: 68109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Reactive	20.0	4.352		mg/Kg		22	5 - 40

Lab Sample ID: LCSD 860-67533/3-A
Matrix: Solid
Analysis Batch: 68109

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67533

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Reactive	20.0	4.139		mg/Kg		21	5 - 40	5	20

Lab Sample ID: 880-18582-1 DU
Matrix: Solid
Analysis Batch: 68109

Client Sample ID: WC-1 0-0.5
Prep Type: Total/NA
Prep Batch: 67533

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Reactive	<0.0248	U	<0.0248	U	mg/Kg		NC	20

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 860-67499/1-A
Matrix: Solid
Analysis Batch: 67575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67499

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	<6.25	U	6.25		mg/Kg		09/01/22 09:39	09/01/22 15:44	1

Lab Sample ID: LCS 860-67499/2-A
Matrix: Solid
Analysis Batch: 67575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67499

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	50.0	52.10		mg/Kg		104	30 - 120

Lab Sample ID: LCSD 860-67499/3-A
Matrix: Solid
Analysis Batch: 67575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67499

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Reactive	50.0	48.09		mg/Kg		96	30 - 120	8	20

Lab Sample ID: 880-18582-1 DU
Matrix: Solid
Analysis Batch: 67575

Client Sample ID: WC-1 0-0.5
Prep Type: Total/NA
Prep Batch: 67499

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide, Reactive	<6.19	U	<6.19	U	mg/Kg		NC	20

Method: 9045D - pH

Lab Sample ID: 820-5544-A-1-B DU
Matrix: Solid
Analysis Batch: 67425

Client Sample ID: Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.2		8.3		SU		0.5	20
Temperature	21.1		21.1		Deg. C		0	25

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

GC/MS VOA

Prep Batch: 66727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-32084-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 67288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	8260C	67316
880-18582-1 - DL	WC-1 0-0.5	Total/NA	Solid	8260C	67316
MB 860-67288/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-67288/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-67288/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
830-2278-B-1-B MS	Matrix Spike	Total/NA	Solid	8260C	67317

Analysis Batch: 67289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	8260C	67316
880-18582-1 - DL	WC-1 0-0.5	Total/NA	Solid	8260C	67316
MB 860-67289/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-67289/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-67289/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-32084-A-1-A MS	Matrix Spike	Total/NA	Solid	8260C	66727

Prep Batch: 67316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	5035	
880-18582-1 - DL	WC-1 0-0.5	Total/NA	Solid	5035	

Prep Batch: 67317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-2278-B-1-B MS	Matrix Spike	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 67520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	3550C	
MB 860-67520/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-67520/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-67520/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 67749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-67520/1-A	Method Blank	Total/NA	Solid	8270D	67520
LCS 860-67520/2-A	Lab Control Sample	Total/NA	Solid	8270D	67520
LCSD 860-67520/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	67520

Analysis Batch: 67776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	8270D	67520

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Metals

Prep Batch: 67295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	7471B	
MB 860-67295/10-A	Method Blank	Total/NA	Solid	7471B	
LCS 860-67295/11-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 860-67295/12-A	Lab Control Sample Dup	Total/NA	Solid	7471B	
860-32127-A-4-B MS	Matrix Spike	Total/NA	Solid	7471B	
860-32127-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 67422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	7471B	67295
MB 860-67295/10-A	Method Blank	Total/NA	Solid	7471B	67295
LCS 860-67295/11-A	Lab Control Sample	Total/NA	Solid	7471B	67295
LCSD 860-67295/12-A	Lab Control Sample Dup	Total/NA	Solid	7471B	67295
860-32127-A-4-B MS	Matrix Spike	Total/NA	Solid	7471B	67295
860-32127-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	67295

Prep Batch: 67434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	3051A	
MB 860-67434/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-67434/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-67434/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
880-18582-1 MS	WC-1 0-0.5	Total/NA	Solid	3051A	
880-18582-1 MSD	WC-1 0-0.5	Total/NA	Solid	3051A	

Analysis Batch: 67746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	6020A	67434
MB 860-67434/1-A	Method Blank	Total/NA	Solid	6020A	67434
LCS 860-67434/2-A	Lab Control Sample	Total/NA	Solid	6020A	67434
LCSD 860-67434/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	67434
880-18582-1 MS	WC-1 0-0.5	Total/NA	Solid	6020A	67434
880-18582-1 MSD	WC-1 0-0.5	Total/NA	Solid	6020A	67434

General Chemistry

Analysis Batch: 67404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	1010	
LCS 860-67404/1	Lab Control Sample	Total/NA	Solid	1010	
880-18582-1 DU	WC-1 0-0.5	Total/NA	Solid	1010	

Leach Batch: 67407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Soluble	Solid	DI Leach	
820-5544-A-1-B DU	Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 67425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Soluble	Solid	9045D	67407
820-5544-A-1-B DU	Duplicate	Soluble	Solid	9045D	67407

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

General Chemistry

Prep Batch: 67499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	7.3.4	
MB 860-67499/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 860-67499/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCSD 860-67499/3-A	Lab Control Sample Dup	Total/NA	Solid	7.3.4	
880-18582-1 DU	WC-1 0-0.5	Total/NA	Solid	7.3.4	

Prep Batch: 67533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	7.3.3	
MB 860-67533/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 860-67533/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	
LCSD 860-67533/3-A	Lab Control Sample Dup	Total/NA	Solid	7.3.3	
880-18582-1 DU	WC-1 0-0.5	Total/NA	Solid	7.3.3	

Analysis Batch: 67575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	9034	67499
MB 860-67499/1-A	Method Blank	Total/NA	Solid	9034	67499
LCS 860-67499/2-A	Lab Control Sample	Total/NA	Solid	9034	67499
LCSD 860-67499/3-A	Lab Control Sample Dup	Total/NA	Solid	9034	67499
880-18582-1 DU	WC-1 0-0.5	Total/NA	Solid	9034	67499

Analysis Batch: 68109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18582-1	WC-1 0-0.5	Total/NA	Solid	9012	67533
MB 860-67533/1-A	Method Blank	Total/NA	Solid	9012	67533
LCS 860-67533/2-A	Lab Control Sample	Total/NA	Solid	9012	67533
LCSD 860-67533/3-A	Lab Control Sample Dup	Total/NA	Solid	9012	67533
880-18582-1 DU	WC-1 0-0.5	Total/NA	Solid	9012	67533

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Client Sample ID: WC-1 0-0.5

Date Collected: 08/24/22 00:00
Date Received: 08/29/22 08:42

Lab Sample ID: 880-18582-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	67316	08/31/22 13:25	KLV	EET HOU
Total/NA	Analysis	8260C		25	5 mL	5 mL	67288	08/31/22 15:33	MTMG	EET HOU
Total/NA	Prep	5035	DL		4.98 g	5 mL	67316	08/31/22 13:25	KLV	EET HOU
Total/NA	Analysis	8260C	DL	200	5 mL	5 mL	67288	08/31/22 15:55	MTMG	EET HOU
Total/NA	Prep	5035			4.98 g	5 mL	67316	08/31/22 13:25	KLV	EET HOU
Total/NA	Analysis	8260C		25	5 mL	5 mL	67289	08/31/22 14:18	KLV	EET HOU
Total/NA	Prep	5035	DL		4.98 g	5 mL	67316	08/31/22 13:25	KLV	EET HOU
Total/NA	Analysis	8260C	DL	200	5 mL	5 mL	67289	08/31/22 17:22	KLV	EET HOU
Total/NA	Prep	3550C			30.06 g	1 mL	67520	09/01/22 10:19	TH	EET HOU
Total/NA	Analysis	8270D		20			67776	09/03/22 03:13	PXS	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	67434	08/31/22 17:46	PB	EET HOU
Total/NA	Analysis	6020A		10			67746	09/02/22 11:58	DP	EET HOU
Total/NA	Prep	7471B			.52 g	50 mL	67295	08/31/22 09:03	AGR	EET HOU
Total/NA	Analysis	7471B		1			67422	08/31/22 16:12	SHZ	EET HOU
Total/NA	Analysis	1010		1			67404	08/31/22 15:50	JM	EET HOU
Total/NA	Prep	7.3.3			10.1 g	50 mL	67533	09/01/22 09:39	PSC	EET HOU
Total/NA	Analysis	9012		1	10 mL	10 mL	68109	09/01/22 17:19	YVD	EET HOU
Total/NA	Prep	7.3.4			10.1 g	50 mL	67499	09/01/22 09:39	PSC	EET HOU
Total/NA	Analysis	9034		1	40 mL	50 mL	67575	09/01/22 15:44	PSC	EET HOU
Soluble	Leach	DI Leach			20.04 g	20 mL	67407	08/31/22 15:57	TL	EET HOU
Soluble	Analysis	9045D		1	20.04 g	20 mL	67425	08/31/22 17:06	TL	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Job ID: 880-18582-2
Project/Site: CTB 145
SDG: 1284

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-04-22 *
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Oklahoma	State	2021-168	08-31-22 *
Texas	NELAP	T104704215-22-47	06-30-23
Texas	TCEQ Water Supply	T104704215	12-31-22
USDA	US Federal Programs	P330-22-00025	03-02-23

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

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
7471B	Mercury (CVAA)	SW846	EET HOU
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	EET HOU
9012	Cyanide, Reactive	SW846	EET HOU
9034	Sulfide, Reactive	SW846	EET HOU
9045D	pH	SW846	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
3550C	Ultrasonic Extraction	SW846	EET HOU
5035	Closed System Purge and Trap	SW846	EET HOU
7.3.3	Cyanide, Reactive	SW846	EET HOU
7.3.4	Sulfide, Reactive	SW846	EET HOU
7471B	Preparation, Mercury	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU

Protocol References:

ASTM = ASTM International

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 145

Job ID: 880-18582-2
SDG: 1284

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18582-1	WC-1 0-0.5	Solid	08/24/22 00:00	08/29/22 08:42

eurofins | Environment Testing Xenco

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 18582

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Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	CTB 145	Turn Around	☐ Routine ☒ Rush
Project Number	1284	Due Date	ASAP
Project Location		TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name	Tom Carlson		
PO #			

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	Yes (No)	
Samples Received Intact	(Yes) No	Thermometer ID	IR2	
Cooler Custody Seals	Yes No N/A	Correction Factor	-.20	
Sample Custody Seals	Yes No (N/A)	Temperature Reading	1.3	
Total Containers		Corrected Temperature	1.5	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	VOC	Semi. VOC	RCRA 11 metals	RCI	% Moisture
WC-1 0-0.5	S	8/24			C	2		X	X	X	X	X	X	X

880-18582 Chain of Custody

Preservative Codes

None NO — DI Water H_2O
Cool Cool — MeOH Me
HCL HC — HNO_3 HN
H_2SO_4 H_2 — NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		8/29/22	2		
3		8:42	4		
5			6		

Revised Date 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-18582-2
SDG Number: 1284

Login Number: 18582
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-18582-2
SDG Number: 1284

Login Number: 18582
List Number: 2
Creator: Milone, Jeancarlo

List Source: Eurofins Houston
List Creation: 08/31/22 01:09 PM

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

Tom Carlson

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, November 29, 2022 4:39 PM
To: Tom Carlson
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Incident ID nAPP2224440316 Final Sampling 12/1/2022

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Tom Carlson <tcarlson@earthsys.net>
Sent: Tuesday, November 29, 2022 1:58 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kristopher Williams <kwilliams@earthsys.net>; Mason Jones <mjones@earthsys.net>; Matthew Kondrath <matt@seabreezewealthmanagement.com>
Subject: [EXTERNAL] Incident ID nAPP2224440316 Final Sampling 12/1/2022

Good Afternoon Mr. Bratcher,

I am conducting final sampling for the CTB 145 (Icy 18 Fed Com) Incident ID nAPP2224440316 on Thursday 12/1/2022. Located at 32.1357, -103.6115. The site is being remediated in accordance with the strictest standards of NMAC 19.15.29. Please let me know if you have any questions.

Respectfully,
Tom

Tom Carlson, GIT | Project Manager
4115 South C.R. 1297 | Odessa, Texas 79765
M 432-894-6385 | tcarlson@earthsys.net

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2224440316
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Western Refining Pipeline, LLC	OGRID
Contact Name Matthew Krakow	Contact Telephone 505-632-4169
Contact email mjkrakow@marathonpetroleum.com	Incident # *(assigned by OCD)* nAPP2224440316
Contact mailing address 111 CR 4990 Bloomfield, NM 87413	

Location of Release Source

Latitude 32.1357 Longitude -103.6115
(NAD 83 in decimal degrees to 5 decimal places)

Site Name CTB 145(Icy 18 Fed Com)	Site Type Crude Oil Gathering
Date Release Discovered 8/25/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
	18	25S	33E	LEA

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 10 barrels	Volume Recovered (bbls) 20 Gallons
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Valve thread leak

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2224440316
District RP	
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Matthew Krakow
Title: HES Professional
Signature: Matthew Krakow Digitally signed by HC16 DN: cn=HC16, ou=FDY Date: 2022.09.06 12:45:03 -06'00'
Date: 9/6/2022
email: MJKrakow@marathonpetroleum.com
Telephone: 8/29/2022

OCD Only

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2224440316
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	> 90 ft. (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2224440316
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Matthew Krakow Title: HES Professional

Signature: Date: 2/13/2023

email: MJKrakow@marathonpetroleum.com Telephone: 505-632-4169

OCD Only

Received by: Jocelyn Harimon Date: 02/13/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2224440316
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Matthew Krakow Title: HES Professional

Signature: _____ Date: 2/13/2023

email: MJKrakow@marathonpetroleum.com Telephone: 505-632-4169

OCD Only

Received by: Jocelyn Harimon Date: 02/13/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 185437

CONDITIONS

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 185437
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	2/22/2023