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REPORT OF UNDERGROUND STORAGE TANK SYSTEM REMOVAL

Flying J Travel Plaza
4200 N Interstate 90 Service Road
Rapid City, South Dakota

AET Project No. P-0043683
SDDANR Tank Facility ID 02-00136

Date:
September 15, 2025

Prepared for:
M.G. Oil Company
1180 Creek Drive
Rapid City, South Dakota

Geotechnical • Materials
Forensic • Environmental
Building Technology
Petrography/Chemistry

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September 15, 2025

M.G. Oil Company
1180 Creek Drive
Rapid City, South Dakota 57703

Attn: Mr. Dave Kulish
Email: dkulish@mgoil.com

Report of Underground Storage Tank System Removal
Flying J Travel Plaza
4200 North Interstate 90 Service Road
Rapid City, SD 57701
AET Project No. P-0043683
SDDANR Tank Facility ID 02-00136

Dear Mr. Kulish:

American Engineering Testing (AET) has completed the enclosed report of Underground Storage Tank System Removal for the Flying J Travel Plaza site. These services were performed according to our proposal dated May 14, 2025, and signed authorization to proceed on May 19, 2025. The attached report of our findings is being submitted as an E-document. If you require hard copies of the report, please let us know and they will be made available.

Upon your review and approval of the report, please sign, date, and return the attached "Approval for Release" form to our office and we will distribute the report to South Dakota Department of Agriculture and Natural Resources and Petroleum Release Compensation Fund for their review.

We appreciate the opportunity to have been of service to you on this project. If you have any questions regarding the information presented in this report or if we can be of additional assistance, please contact me.

Sincerely,
American Engineering Testing

Jeremy J. Huot, CPRR
Environmental Project Manager
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APPROVAL FOR RELEASE

Project: Report of Underground Storage Tank System Removal
Flying J Travel Plaza
4200 North Interstate 90 Service Road
Rapid City, SD 57701
AET Project No. P-0043683
SDDANR Tank Facility ID 02-00136

Report: AET Report No. P-0043683

Date: September 15, 2025

As the addressee of the above-referenced report and the client of record for the project, I hereby give my permission for the release of the report to the agencies referenced in the subject report.

Client: M.G. Oil Company

Authorized Signature: _____

Typed Name: _____

Title: _____

Date: _____

TABLE OF CONTENTS

1. INTRODUCTION 1
1.1 Site Description 1
1.2 Background Information 1
1.3 Previous Environmental Assessment Activities 1
1.4 Site Geology and Hydrogeology 3
1.5 Scope of Work 3
2. PROJECT RESULTS 5
2.1 UST Excavation Activities 5
2.2 Soil Sample Screening Results 7
2.3 Soil Sample Analytical Results 9
2.4 UST System Observations 10
2.5 Petroleum Impacted Soil Disposal 11
3. DISCUSSION 11
4. CONCLUSIONS & RECOMMENDATIONS 12
5. STANDARD OF CARE 14

APPENDICES

A. Figures
1. Site Location Topographic Map
2. Site Sketch with Excavation Extents and Soil Sample Locations

B. Methodologies
C. Analytical Laboratory Report
D. Photographs
E. Landfill Disposal Tickets
F. Soil Disposal Tonnage Calculation

UNDERGROUND STORAGE TANK SYSTEM REMOVAL
FLYING J TRAVEL PLAZA
4200 NORTH INTERSTATE 90 SERVICE ROAD, RAPID CITY, SD
AET No. P-0043683

1. INTRODUCTION

1.1 Site Description

The physical location of the Flying J Travel Plaza (site) is 4200 North Interstate 90 (I-90) Service Road, Rapid City, South Dakota (SD). The approximate township/range location of the site is described as NW¼ of the SW¼ of Section 27, Township 2 North, Range 8 East, Black Hills Principal Meridian, Pennington County, SD. The latitude/longitude of the site is 44.102905°, -103.149818° as determined using Google Earth Pro software. A topographic site location map and site sketch are presented as Figure 1 and Figure 2, Appendix A, respectively.

1.2 Background Information

According to information provided by M.G. Oil Company (MG Oil) and obtained through the SD Department of Agriculture and Natural Resources (SDDANR) online database, the site maintained an underground storage tank (UST) system including one 4,000-gallon E-85 gasoline UST, two 12,000-gallon gasoline USTs, one 20,000-gallon gasoline UST, one 12,000-gallon diesel fuel UST, and three 20,000-gallon diesel fuel USTs. In addition to the petroleum storage USTs, the site also had one diesel exhaust fluid (DEF) UST that was removed as part of recent facility upgrades. The SDDANR Facility Number for this tank site is 02-00136.

1.3 Previous Environmental Assessment Activities

According to information obtained through the SDDANR online database, the site has been the location of multiple petroleum releases and corresponding environmental site assessments. The most recent Risk Based Corrective Action (RBCA) assessment activities at the site include the completion of a RBCA Receptor Evaluation/Tier 2 Assessment conducted by WSP. The available documentation indicates that on September 25, 2015, SDDANR spill case 2015.191 was opened at the site following a routine tightness test that detected a failed gasoline product distribution line within the petroleum UST system. This failure resulted in an unknown quantity of unleaded gasoline

leaking into the subsurface. The product line was subsequently repaired and returned to service by October 8, 2015. As a result of the release, the SDDANR requested a RBCA Tier 2 Site Assessment be conducted at the site.

Assessment activities, specifically the field work portion of the Tier 2 Site Assessment, were conducted in late October of 2018. During this assessment, four soil borings (SB-8, MW-9, SB-10, and SB-11) were advanced to depths ranging from 25 to 40 feet (ft) below grade (bg). One of these borings, MW-9, was completed as a groundwater monitoring well. Soil and groundwater samples were collected and analyzed for petroleum hydrocarbon concentrations.

The analysis indicated the presence of petroleum hydrocarbons in two soil samples and also within the groundwater sample from MW-9. Specifically, the benzene concentration in the soil sample from SB-8 (19 ft bg) was 0.080 milligrams per liter (mg/kg), which is below the SDDANR Tier 1 Action Level of 0.2 mg/kg. In soil boring MW-9, naphthalene (1.54 mg/kg), xylenes (0.272 mg/kg), and TPH-G (82.9 mg/kg) were detected at the 16-18 ft bg interval. All these concentrations are also below the SDDANR Tier 1 Trigger/Action Levels for soils.

Groundwater analysis from MW-9 showed a benzene concentration of 0.00277 mg per liter (mg/L) and TPH-G at 0.202 mg/L. Both of these concentrations are below SD Ground Water Quality Standards (SDGWQS) of 0.005 mg/L for benzene and 10 mg/L for TPH-G, respectively. No other analytes were detected above laboratory sample practical quantitation limits during the assessment.

Based on these assessment findings, the SDDANR granted the spill case 2015.191 a "No Further Action" designation on June 15, 2020. This decision was made because, despite some remaining contamination, there was no current risk to human health or further risk to the environment. The laboratory analytical results confirmed that petroleum hydrocarbon concentrations in both soil and groundwater samples were below the respective SDDANR Tier 1 Trigger/Action Levels and SDGWQS.

1.4 Site Geology and Hydrogeology

The non-native soil present within the UST basins consisted of crushed limestone bedding material directly adjacent to the USTs with native soils surrounding the UST basins consisting of fat clay indicative of Pierre Shale. This is consistent with SD Geologic Survey document titled “Bedrock Geologic Map Showing Configuration of the Bedrock Surface in SD East of the Missouri River, SD” by Thomhave and Schulz, 2004, which depicts the Pierre Shale Formation as the primary geologic formation in this vicinity.

The nearest surface water in relation to the site is Box Elder Creek which is located approximately 0.75-mile northeast of the site at its nearest point. Due to the location of Box Elder Creek relative to the site, it is anticipated that if shallow groundwater is present, the directional gradient of groundwater flow would be to the northeast with depths to groundwater ranging from 20 to 40 ft bg. Due to the impermeable nature of the fat clay in the site area, there is also potential for perched groundwater to be present at shallower depths.

1.5 Scope of Work

The scope of work we performed on this project consisted of the following items:

1) coordinating the removal of the UST system with MG Oil and Heavy Constructors, Inc. (the excavation contractor);

2) coordinating with the SDDANR and SD Petroleum Release Compensation Fund (SDPRCF) regarding remedial action and soil sampling schemes during the UST system removal process;

3) mobilizing a licensed Petroleum Release Remediator from our Rapid City, SD office to collect a composite soil sample from areas adjacent to the UST spill buckets and analyzing the sample for the presence and concentration of total petroleum hydrocarbons as diesel (TPH-D), total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary-butyl ether (MTBE), naphthalene, and total eight RCRA metals, as required for landfill disposal;

4) mobilizing a licensed Petroleum Release Remediator from our Rapid City, SD office to observe and document the presence of free phase petroleum product (free

product) within the diesel exhaust fluid (DEF) UST basin excavation, and document free product removal efforts and backfilling of the DEF UST basin;

5) collecting soil samples from the sidewall of the DEF UST basin at the approximate intervals of nearby utilities and analyzing the samples for the presence and concentration of TPH-D, TPH-G, BTEX, MTBE, and naphthalene;

6) mobilizing an environmental professional that is a licensed Petroleum Release Remediator from our Rapid City, SD office to observe and document the removal of the petroleum UST system;

7) monitoring the ambient air present within the gasoline USTs for percent oxygen content using a combustible gas indicator (CGI) and reporting the concentrations to MG Oil personnel;

8) observing and documenting the physical condition of the petroleum USTs upon removal from the UST basin;

9) observing and documenting the condition of the soil in the floor and sidewalls of the petroleum UST basin, beneath the distribution pumps, and within the distribution line trenches;

10) screening the soils in the floor and sidewalls of the petroleum UST basin, beneath the distribution pumps, and within the distribution line trenches for the presence of organic vapors as an indication of petroleum hydrocarbon impacts;

11) collecting representative soil samples in the walls and floor of the petroleum UST basin excavation, beneath distribution pumps, and within the distribution line trenches in accordance with DANR Handbook guidelines, or at the direction of DANR personnel, and analyzing the samples for the presence and concentration of naphthalene, TPH-D, and/or TPH-G, BTEX, and MTBE; and

12) providing a report containing data obtained during our field work, along with our conclusions and recommendations based on that data.

2. PROJECT RESULTS

2.1 UST Excavation Activities

AET personnel mobilized to the site on May 21, 2025, to meet with Rodney Johansen of MG Oil and the excavation contractor, Heavy Constructors, to collect preliminary soil samples from near the petroleum UST spill buckets at the site. Upon arrival, AET noted that the former paved surfacing above the petroleum UST basin had been removed, and the spill buckets were exposed. Soil encountered beneath the removed paved surfacing and overlying the UST basin consisted of a mixture of crushed limestone basecourse and UST bedding material. A composite soil sample was collected representing soil from adjacent to each of the UST spill buckets and the sample was submitted for analysis of TPH-D, TPH-G, BTEX, MTBE, naphthalene, and total eight RCRA metals. This sample analysis would provide soil characterization required by the Rapid City Landfill to accept the anticipated petroleum impacted soil that was to be excavated at the site in association with the UST system removal and other site renovations that would require excavating petroleum impacted soil.

On May 30, 2025, AET mobilized to the site to collect soil samples from the recently removed distribution pump islands (PIs) at the site. Soils encountered in the areas beneath the former PIs consisted of crushed limestone basecourse. AET collected a representative soil sample from beneath each former PI at the site (total of 17 samples), and submitted the samples for analysis of naphthalene, TPH-D, and/or TPH-G, BTEX, and MTBE depending on the former utilization of the pump as a gasoline dispenser, diesel fuel dispenser, or a combination of both fuel types.

On June 6, 2025, at the request of the SDDANR and MG Oil, AET mobilized to the site after MG Oil personnel and the excavation contractor observed free product atop the groundwater within an excavation that had been dug during the removal process of a DEF UST that was formerly situated at the site. Although the DEF UST basin was never utilized for petroleum storage in the past, a thin layer (<0.25-inch thick) of what appeared to be diesel fuel was observed by AET floating on the surface of the perched groundwater within

the excavation at approximately 8 ft bg. AET consulted with the SDDANR on options for mitigation of the free product and a decision was made to place product absorbent materials over the free product and then remove the absorbents once they had been saturated, thus removing the thin layer of free product immediately prior to backfilling. MG Oil placed a full layer of absorbent material into the excavation on the afternoon of Friday, June 6, 2025, and let the free product absorb into the material over the weekend. The following Monday (June 9, 2025) MG Oil personnel returned to the site and the saturated absorbent materials were removed from the excavation and the excavated area was backfilled with aggregate to just above the observed groundwater level and then with soil to grade elevation. Prior to backfilling activities, AET collected two soil samples from the western sidewall of the DEF UST basin excavation. The samples were collected at the approximate interval depth of nearby storm sewer and sanitary sewer utilities that are situated west of the site. The samples were analyzed for the presence and concentration of TPH-D, TPH-G, BTEX, MTBE, and naphthalene.

On July 2, 2025, at the request of MG Oil, AET mobilized to the site to observe petroleum UST removal activities. Upon arrival at the site, AET observed that the UST tops had already been uncovered. Soil surrounding the USTs consisted of crushed limestone bedding material. Native soil surrounding the tank basin consisted of weathered shale (fat clay). Upon further vertical excavation within the tank basin, perched groundwater was observed within the excavation area at approximately 8-10 ft bg. Visual and olfactory indications of petroleum impacts were observed in the bedding material surrounding the USTs as well as in the native fat clay soil within the sidewalls and floor of the UST basin. AET measured oxygen content within each of the gasoline USTs while on site, including one 4,000-gallon E-85 gasoline UST, two 12,000-gallon gasoline USTs, and one 20,000-gallon gasoline UST, and reported the concentrations to MG Oil personnel. AET observed the removal of the gasoline USTs and collected soil samples from the floor of the west side of the UST basin (where the gasoline USTs were formerly situated) and from within the open distribution line trenches. The samples were analyzed for the presence and concentration of naphthalene, TPH-D, and/or TPH-G, BTEX, and MTBE.

AET remobilized to the site on July 8, 2025, to observe and document the removal of the remaining USTs, including one 12,000-gallon diesel fuel UST, and three 20,000-gallon diesel fuel USTs. Prior to removal of the diesel USTs, approximately 1,700 gallons of remaining product were pumped from the USTs into intermediate bulk storage containers (IBCs) by MG Oil. Upon removal of the UST's, AET collected additional soil samples from within the UST basin floor and sidewalls. The samples were analyzed for the presence and concentration of TPH-D, TPH-G, BTEX, MTBE, and Naphthalene. Upon removal of the USTs from the basin, a thin layer (<0.25-inch thick) of what appeared to be diesel fuel was observed by AET floating on the surface of the groundwater within the excavation at approximately 8 ft bg. AET again consulted with the SDDANR and a decision was made to place absorbent materials over the free product as was previously done when free product that had been observed in the DEF UST basin. MG Oil placed a full layer of absorbent material into the excavation on the afternoon of Friday, July 8, 2025, and let the free product absorb into the material overnight. The following day (July 9, 2025) MG Oil personnel returned to the site and the saturated absorbent materials were removed from the excavation and the excavated area was backfilled with aggregate to just above the observed groundwater level and then with soil to grade elevation.

2.2 Soil Sample Screening Results

For field observation and screening purposes, AET collected a total of 36 soil samples in the area of the DEF UST basin, petroleum UST basin, distribution pumps, and within the distribution line trenches. Samples were collected and screened for the presence and concentration of organic vapors as an indication of petroleum hydrocarbon impacts using methods presented in Appendix B.

Elevated organic vapor headspace concentrations were encountered within the DEF and petroleum UST basins, within the distribution line trenches, and from beneath the majority of the distribution PIs. The highest screening concentrations were observed in the floor of the UST basin at a depth of approximately 13.0 ft bg. Refer to Figure 2, Appendix A, for an illustration of the USTs, PIs, distribution line trenches, and soil sample locations. Refer to Table 1, below, for presentation of the organic vapor screening results.

Table 1 Soil Sample Screening Results		
Sample ID / Sample Location	Depth[1]	Organic Vapors[2]
Landfill Disposal / Adjacent to spill buckets	0.0 – 1.0	215.3
PI-A / Beneath former pump island	2.0	162.6
PI-B / Beneath former pump island	2.0	49.5
PI-C / Beneath former pump island	2.0	181.0
PI-D / Beneath former pump island	2.0	28.1
PI-E / Beneath former pump island	2.0	166.3
PI-F / Beneath former pump island	2.0	36.7
PI-G / Beneath former pump island	2.0	97.6
PI-H / Beneath former pump island	2.0	80.6
PI-I / Beneath former pump island	2.0	9.7
PI-J / Beneath former pump island	2.0	4.5
PI-K / Beneath former pump island	2.0	1.8
PI-L / Beneath former pump island	2.0	660.7
PI-M / Beneath former pump island	2.0	22.4
PI-N / Beneath former pump island	2.0	45.1
PI-O / Beneath former pump island	2.0	ND
PI-P / Beneath former pump island	2.0	6.6
PI-Q / Beneath former pump island	2.0	4.5
W DEF Basin 3-5' / West sidewall of DEF UST basin	3.0 - 5.0	454.1
W DEF Basin 6-8' / West sidewall of DEF UST basin	6.0 - 8.0	120.8
DEF UST Basin Soil Stockpile (composite)	N/A	142.4
T-1 / Floor of distribution line trench	3.0	17.0
T-2 / Floor of distribution line trench	3.0	61.5
T-3 / Floor of distribution line trench	3.0	31.8
T-4 / Floor of distribution line trench	3.0	19.3
T-5 / Floor of distribution line trench	3.0	14.5
T-6 / Floor of distribution line trench	3.0	1567
T-7 / Floor of distribution line trench	3.0	1904
Basin 1 / Western floor of petroleum UST basin	13.0	2313
Basin 2 / Center floor of petroleum UST basin	13.0	2652
Basin 3 / Eastern floor of petroleum UST basin	13.0	273.4
SW-1 / North sidewall of petroleum UST basin	6.0 – 8.0	99.1
SW-2 / West sidewall of petroleum UST basin	6.0 – 8.0	29.3
SW-3 / South sidewall of petroleum UST basin	6.0 – 8.0	40.6
SW-4 / East sidewall of petroleum UST basin	6.0 – 8.0	1460
Petroleum UST Basin Soil Stockpile (composite)	N/A	685.4

*Blue highlighted row indicates sample was submitted for laboratory analysis.
[1] Depths measured in ft bg.
[2] Concentrations presented in parts per million (ppm) equivalents.

2.3 Soil Sample Analytical Results

Representative soil samples were collected during the excavation activities and analyzed for the presence and concentration of TPH-D, TPH-G, BTEX and naphthalene, using methods described in Appendix B, to document the petroleum impacts remaining in the soil at the site. The laboratory analytical results are presented in Table 2, below, and the laboratory reports are included in Appendix C. For comparison, the SDDANR Tier 1 Trigger/Action Levels for soils at petroleum release sites are also presented in Table 2.

Based on SDDANR Handbook guidelines, or at the direction of DANR personnel, AET selected 17 samples from beneath the former pump islands, seven samples from the floor of the distribution line trenches, two samples from the western sidewall of the DEF UST basin, three samples from the floor of the petroleum UST basin, and one sample from each sidewall of the petroleum UST basin. In total, 34 soil samples were collected at the site and submitted for laboratory analysis at Midcontinent Testing Laboratories in Rapid City, SD. Refer to Figure 2 for the approximate locations where each soil sample was collected. Refer back to Table 1 for the depths at which each soil sample was collected.

Table 2
Laboratory Analytical Data[1]

Sample ID / Location	TPH-G	TPH-D	Benzene	Toluene	Ethyl Benzene	Xylenes	Naphthalene
Landfill Disposal / Adjacent to spill buckets	240	*732*	<0.200[2]	<0.400	0.849	1.84	2.78
PI-A / Beneath former pump island	--	*17,600*	--	--	--	--	<10.0
PI-B / Beneath former pump island	--	*14,100*	--	--	--	--	<25.0
PI-C / Beneath former pump island	--	*24,100*	--	--	--	--	14.2
PI-D / Beneath former pump island	--	*11,400*	--	--	--	--	<10.0
PI-E / Beneath former pump island	--	*58,200*	--	--	--	--	<25.0
PI-F / Beneath former pump island	--	*1,490*	--	--	--	--	<10.0
PI-G / Beneath former pump island	--	*20,000*	--	--	--	--	<25.0
PI-H / Beneath former pump island	--	*33,200*	--	--	--	--	<25.0
PI-I / Beneath former pump island	--	*604*	--	--	--	--	<0.500
PI-J / Beneath former pump island	18.1	--	<0.050	<0.100	0.135	0.306	0.259
PI-K / Beneath former pump island	28.2	--	<0.050	<0.100	0.148	0.359	0.279
PI-L / Beneath former pump island	329	--	*0.551*	7.94	3.19	35.8	<0.800
PI-M / Beneath former pump island	287	*4,330*	<0.200	<0.400	0.456	1.00	5.07
PI-N / Beneath former pump island	28.9	--	<0.050	<0.100	<0.100	0.350	0.339

Table 2
Laboratory Analytical Data[1]

Sample ID / Location	TPH-G	TPH-D	Benzene	Toluene	Ethyl Benzene	Xylenes	Naphthalene
PI-O / Beneath former pump island	<10.0	--	<0.050	<0.100	<0.100	<0.200	<0.200
PI-P / Beneath former pump island	129	*2,730*	<0.050	<0.100	0.118	0.643	2.41
PI-Q / Beneath former pump island	19.7	130	<0.050	<0.100	<0.100	<0.200	0.272
W DEF Basin 3-5' / West sidewall of DEF UST basin)	382	*612*	<0.200	<0.400	1.10	2.72	4.41
W DEF Basin 6-8' / West sidewall of DEF UST basin)	*605*	*1,360*	<0.200	<0.400	1.29	3.92	8.52
T-1 / Floor of distribution line trench	--	224	--	--	--	--	<0.500
T-2 / Floor of distribution line trench	--	*2,260*	--	--	--	--	<5.00
T-3 / Floor of distribution line trench	--	*1,760*	--	--	--	--	<5.00
T-4 / Floor of distribution line trench	--	*940*	--	--	--	--	<5.00
T-5 / Floor of distribution line trench	47.7	350	<0.050	<0.100	0.183	0.363	0.690
T-6 / Floor of distribution line trench	286	*2,770*	*0.256*	1.02	2.11	7.49	2.66
T-7 / Floor of distribution line trench	277	338	<0.200	<0.400	0.645	8.77	2.24
Basin 1 / Western floor of petroleum UST basin	*6,410*	*1,980*	*34.0*	*368*	*99.5*	*606*	<20.0
Basin 2 / Center floor of petroleum UST basin	*12,400*	*6,070*	*97.9*	*500*	*241*	*1,320*	*63.6*
Basin 3 / Eastern floor of petroleum UST basin	68.0	186	0.054	<0.100	0.115	0.798	0.690
SW-1 / North sidewall of petroleum UST basin	11.1	79.8	<0.050	<0.100	<0.100	0.205	<0.200
SW-2 / West sidewall of petroleum UST basin	<10.0	32.2	<0.050	<0.100	<0.100	<0.200	<0.200
SW-3 / South sidewall of petroleum UST basin	449	*4,700*	<0.200	<0.400	0.463	1.89	8.14
SW-4 / East sidewall of petroleum UST basin	*6,400*	*5,560*	*15.7*	*239*	*107*	*568*	*29.5*
Tier 1 Trigger/Action Levels	500	500	0.2	15	10	300	25

[1] All values are in mg/kg, which is equivalent to parts per million, unless otherwise noted.
[2] "<" denotes analyte not detected at or above the sample detection limit following the "less than" symbol.
Values listed in *bold italics* indicate concentration exceeded Tier 1 Trigger or Action Levels.

2.4 UST System Observations

All petroleum USTs at the site were constructed of steel. The gasoline USTs, which included one 4,000-gallon, two 12,000-gallon, and one 20,000-gallon UST, all appeared to be in fair to good condition with little to no evidence of corrosion and no observed holes or pitting. The diesel USTs, which included one 12,000-gallon UST and three 20,000-gallon USTs, were observed to be in fair condition with some rust but no evident corrosion holes or pitting noted. It should be noted that some holes were observed on some of the USTs after they had been removed from the UST Basin. However, these holes appeared to be the result of the excavator puncturing the UST during the removal process and were likely not present while the tanks were in place and in operation. The dimensions of each of the tanks can be found in Appendix F.

Piping at the facility was observed after it had been pulled from the ground and consolidated into stockpiles for disposal. Although the condition of the stockpiled distribution piping appeared to be in fair condition, it was difficult to assess its condition considering the mangled state that it was observed in while stockpiled. All distribution PIs had been removed prior to AET's presence on the site; therefore, the condition of the PIs could not be observed.

Digital photographs taken during the UST system removal and excavation activities are enclosed in Appendix D.

2.5 Petroleum Impacted Soil Disposal

Based on the screening results collected by AET while on site, elevated organic vapor concentrations were observed within the composite soil stockpiles derived from the DEF UST basin excavation and the petroleum UST basin excavation as well as in the surface soil overlying the petroleum USTs. In addition, elevated organic vapor concentrations were documented throughout the excavated distribution line trenches. As such, AET directed the excavation contractor to segregate the petroleum impacted soil to be disposed of at the Rapid City Landfill. In total, the Rapid City landfill recorded a total of 1,710.11 tons of soil that was removed from the site and disposed of at the Rapid City Landfill as petroleum impacted soil (Appendix E). This tonnage directly correlates to the estimated tonnage calculated to have been removed from the DEF UST basin, petroleum UST basin, and distribution line trenches (1,306.86 to 1,960.29 tons) as derived in the tonnage calculation table found in Appendix F.

3. DISCUSSION

Review of the vapor screening results from the soil samples collected during the excavation activities indicate elevated organic vapors were measured in the soil samples recovered throughout the site, including within the distribution line trenches, beneath the PIs, within the DEF UST basin, and within the petroleum UST basin. The highest

screening concentrations were observed within the soil collected from the floor and sidewalls of the petroleum UST basin.

Laboratory analysis confirmed that concentrations of TPH-D, TPH-G, benzene, toluene, ethylbenzene, xylenes, and naphthalene, exceeding the respective SDDANR Tier 1 Trigger/Action Levels, remain in the soil within the floor and sidewalls of the petroleum UST basin. Laboratory analysis also confirmed that concentrations of TPH-D and benzene, exceeding the respective SDDANR Tier 1 Trigger/Action Levels, remain in the soil near the distribution line runs at the site, and concentrations of TPH-D and TPH-G, exceeding the respective SDDANR Tier 1 Trigger Level, remain in the soil within the western sidewalls of the DEF UST basin. Furthermore, laboratory analysis confirmed that concentrations of TPH-D, exceeding the respective SDDANR Tier 1 Trigger Level, remain in the soil beneath former PIs A, B, C, D, E, F, G, H, I, M, and P, with benzene exceeding the SDDANR Tier 1 Action Level beneath former PI-L.

4. CONCLUSIONS & RECOMMENDATIONS

During UST removal activities, AET's observations and soil screening activities identified petroleum hydrocarbon impacts in several areas, including the former petroleum UST basin, the former DEF UST basin, beneath distribution PIs, and within distribution line trenches. Laboratory analysis confirmed concentrations of target analytes exceeding SDDANR Tier 1 Trigger and/or Action Levels at each of these locations, indicating multiple historical releases and potentially more recent releases have impacted surface/subsurface soil at the site.

In addition, free product was observed on the perched groundwater surface within the DEF UST basin and the petroleum UST basin. Although absorbent materials were used to remove the free product present from each of these excavations, it is unlikely that all product was recovered from the site.

The most recent RBCA assessment, conducted between 2018 and 2020 (referenced in Section 1.3), resulted in DANR granting the site “No Further Action” status. This determination was based on findings that, despite the presence of residual contamination, risks to human health and the environment were not evident at the time. However, review of the RBCA assessment indicates that while petroleum impacts were detected in subsurface soil and groundwater, concentrations were below the respective SDDANR Tier 1 Trigger/Action Levels and SDGWQS. Furthermore, the investigation evaluated only gasoline constituents and did not assess diesel.

Given the lower concentrations reported in the RBCA assessment, the absence of free product at that time, and the limited scope of analytes evaluated, AET concludes that potential risks associated with current site-specific conditions remain unassessed and may warrant further investigation. Newly constructed infrastructure at the site may also present additional exposure pathways that have not been evaluated.

Accordingly, AET recommends implementation of a RBCA Receptor Survey/Work Plan and a Tier 2 Assessment to further evaluate potential exposure pathways and receptors at and near the site.

In addition, AET recommends that copies of this report be filed with the SDDANR, Office of Inspection, Compliance, and Remediation Program, Pierre and Rapid City, SD, and the SDPRCF, Pierre, SD.

5. STANDARD OF CARE

The recommendations contained in this report represent our professional opinions. These opinions were arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by:



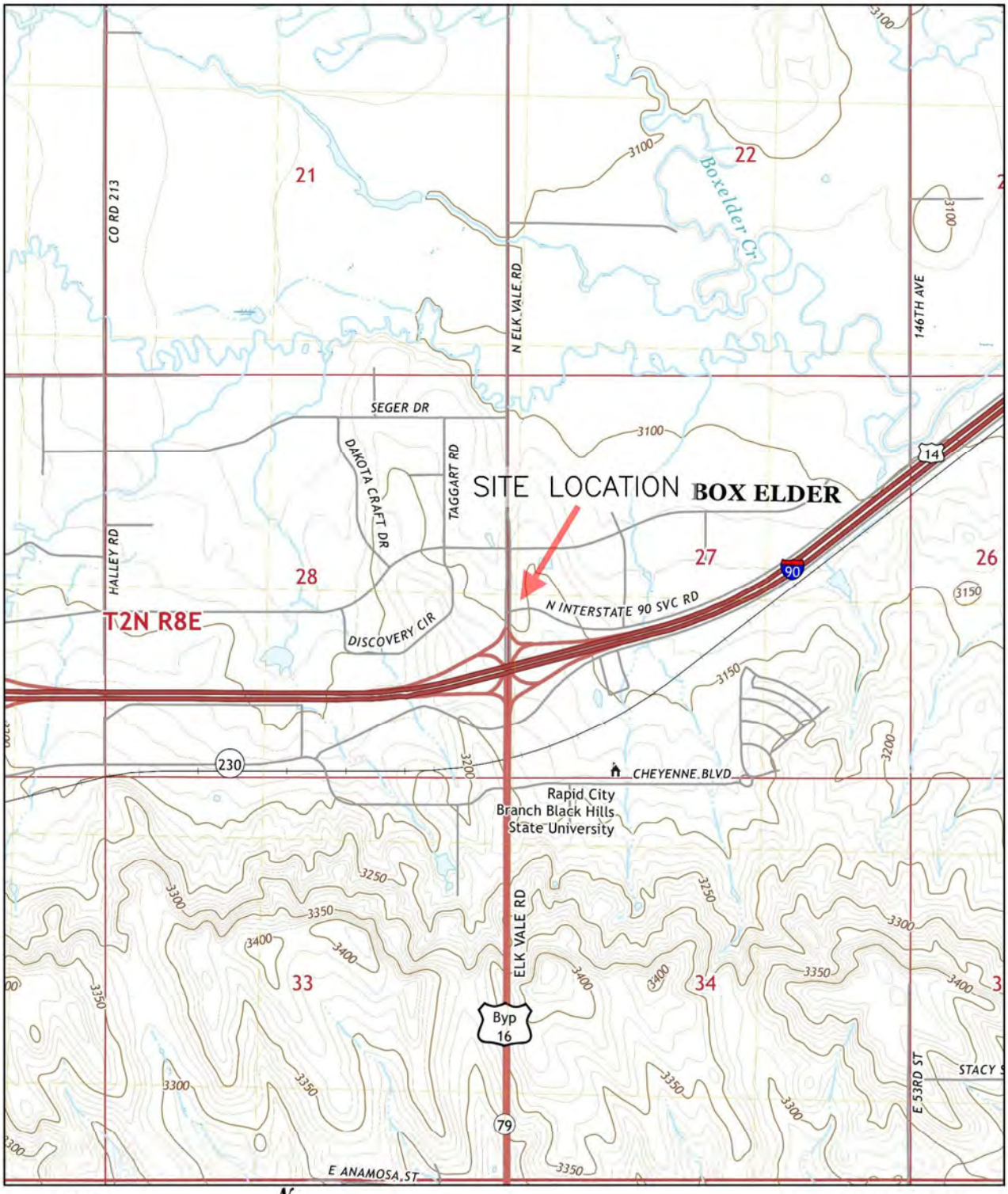
Jeremy J. Huot, CPRR
Environmental Project Manager

This report was reviewed by:



Bradley P. Bishop, CPRR
Senior Project Manager

APPENDIX A
Figures



SCALE (FEET)

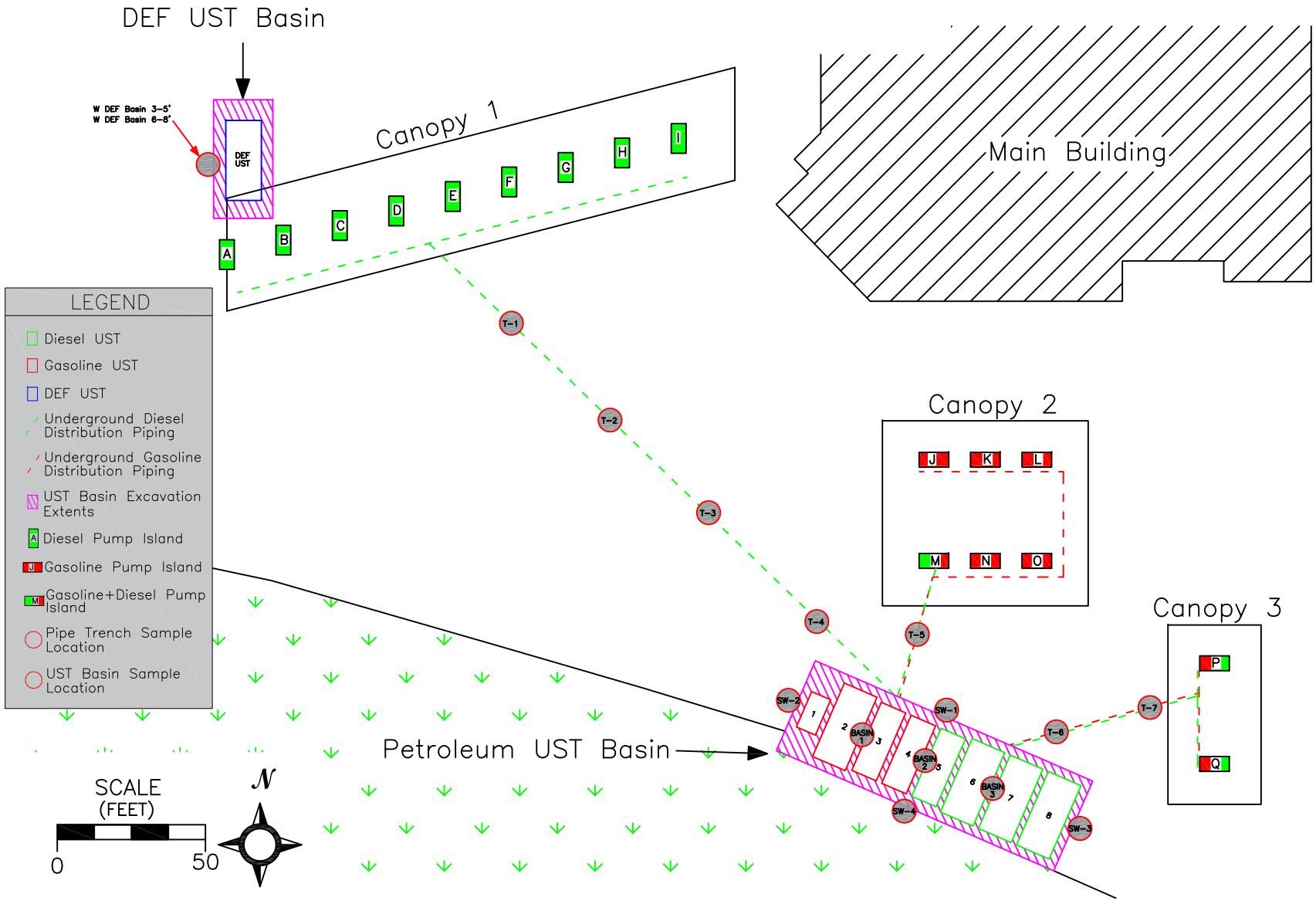
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USGS TOPOGRAPHIC MAP
PROVIDED BY USGS DATABASE
DATED: 2021 SCALE: 1:24,000

AMERICAN
ENGINEERING TESTING

PROJECT: MG OIL FLYING J UST SYSTEM REMOVAL 4200 N I-90 SERVICE ROAD, RAPID CITY, SD		PROJECT NO.: P-0043683
SUBJECT: SITE LOCATION TOPO MAP	DRAWN BY: JJH	DATE: AUGUST 1, 2025
SCALE: 1 INCH = 2,000 FEET	REVIEWED BY: BPB	FIGURE: 1



Note: Depicted locations and dimensions are approximate.

AMERICAN ENGINEERING TESTING

PROJECT: FLYING J TRUCK STOP PROPOSAL		PROJECT NO. P-0043683
SUBJECT: SITE SKETCH WITH EXCAVATION EXTENTS, UST SYSTEM COMPONENTS, & SOIL SAMPLE LOCATIONS	DRAWN BY: JJH	DATE: SEPTEMBER 12, 2025
SCALE: 1 INCH = 50 FEET	REVIEWED BY: BPB	FIGURE: 2

APPENDIX B
Methodologies

METHODOLOGIES

Soil Screening and Sampling

Soil screening activities included the collection of soil samples from the UST basin excavation, distribution line trenches, and dispenser pumps. The soils were visually examined during the excavation for discoloration and other indications of petroleum impacts. Organic vapor headspace analysis was conducted according to Standard Operating Procedures detailed in Appendix C, Section 1 of the SDDANR “Handbook for Investigation and Corrective Action Requirements for Discharges from Storage Tanks, Piping Systems, and Other Releases”.

The soil samples were screened for the presence of organic vapors as indications of hydrocarbon contamination using an Ion Science PhoCheck TIGER photoionization detector (PID). This instrument provides readings in parts per million (ppm) equivalents of the calibration gas. The lower detectable limit is approximately 1 ppm. Erratic responses were discounted as a result of high organic vapor concentrations or conditions of elevated headspace moisture. Occasionally, vapor interference may also be encountered from the plastic sample bags utilized for headspace analysis. The PID is calibrated on-site using the concentration (as recommended by the manufacturer) of Isobutylene gas with a 10.6 eV lamp source. Headspace vapor readings are obtained by partially filling a sealable plastic sample bag. The sample bag is agitated, and the soil is allowed to warm within the sealed container. The probe of the PID is inserted through the top of the sample container to obtain a headspace reading. Concentrations are recorded as the maximum level reached after insertion of the probe.

Soil samples for laboratory analysis are collected in laboratory prepared 4-oucnce soil jars with zero headspace and placed in a cooler with ice for delivery to the analytical laboratory.

Chemical Analysis

The confirmation soil samples are analyzed in a certified laboratory for the presence and concentration of total petroleum hydrocarbons as diesel (TPH-D), total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary butyl ether (MTBE), and naphthalene. The samples are analyzed according to the appropriate Environmental Protection Agency (EPA) and/or California/United States Geological Survey (USGS) methods.

Chain of Custody

Upon collection of a sample to be analyzed in the laboratory, a chain of custody log was initiated. The chain of custody log includes the following information: project name, project number, shipped by, shipped to, project manager, sampling point, location, field identification number, date taken, sample type, number of containers, analysis required and sampler's signature. The chain of custody log is shipped with the samples to the laboratory. On arrival at the laboratory, the samples are checked in and signed over to the appropriate laboratory personnel. A copy of the chain of custody log is maintained by the project manager.

Reporting

Reports are prepared that 1) present and summarize the results of the work conducted, 2) include site location and study area maps, 3) give our opinion regarding the presence of petroleum hydrocarbons and the necessity for additional work, and 4) if the results of the study warrant additional work, recommend the scope of additional work.

APPENDIX C
Analytical Laboratory Reports

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

REVIEWED
By Jeremy Huot at 8:31 am, Sep 09, 2025

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Sample Site:	Landfill Disposal
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/21/25 at 01:15 PM by Jeremy Huot
Sample Matrix:	Soil
Lab ID#:	20250521541
Received:	05/21/25 at 01:30 PM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Metals - TCLP								
Arsenic (As)	< 0.005	mg/L	10	0.00036	0.005	EPA SW846 6020	TNA	06/02/25
Barium (Ba)	0.478	mg/L	10	0.00073	0.005	EPA SW846 6020	TNA	06/02/25
Cadmium (Cd)	< 0.001	mg/L	10	0.00041	0.001	EPA SW846 6020	TNA	06/02/25
Chromium (Cr)	< 0.001	mg/L	10	0.000109	0.001	EPA SW846 6020 DRC	TNA	06/02/25
Lead (Pb)	< 0.001	mg/L	10	0.00015	0.001	EPA SW846 6020	TNA	06/02/25
Mercury (Hg)	< 0.0002	mg/L	1	0.000045	0.0002	EPA SW846 7471B	GRT	06/03/25
Selenium (Se)	< 0.005	mg/L	10	0.001	0.005	EPA SW846 6020	TNA	06/02/25
Silver (Ag)	0.004	mg/L	10	0.00014	0.001	EPA SW846 6020	TNA	06/02/25
Volatile								
Benzene	< 0.200	mg/kg	4	0.071	0.200	SW846 8021B-S	SAC	06/03/25
Ethylbenzene	0.849	mg/kg	4	0.064	0.400	SW846 8021B-S	SAC	06/03/25
Methyl tertiary-Butyl Ether	< 0.400	mg/kg	4	0.093	0.400	SW846 8021B-S	SAC	06/03/25
Naphthalene	2.78	mg/kg	4	0.099	0.800	SW846 8021B-S	SAC	06/03/25
Toluene	< 0.400	mg/kg	4	0.060	0.400	SW846 8021B-S	SAC	06/03/25
Xylenes(o,m,p)	1.84	mg/kg	4	0.240	0.800	SW846 8021B-S	SAC	06/03/25
Total Volatile Hydrocarbons								
TPH as Gasoline	240	mg/kg	4	2.76	40.0	SW846 8015B-S	SAC	06/03/25
Semi-Volatile								
TPH Diesel	732	mg/kg	20	26.0	200	SW846 8015B-S	SAC	06/04/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	06/03/25

Report of Analysis for: **AET - Rapid City** Sample Site: **Landfill Disposal**

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-Volatile					
4-Bromofluorobenzene	109.2 %	(56.89) - (149.9)	4	SW846 8021B QC	SAC 06/03/25

Report Approved By:

Report Approved On: 6/5/2025 1:48:54 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Lab Numbers: 20250521541 - 20250521541

QC Sample Report

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Spike									
Arsenic - D	0530301	0.239	< 0.005	0.025	10	95.5 %	(82.46) - (109.7)	EPA 200.8	
Arsenic - D	0530305	2.35	< 0.005	0.025	100	93.8 %	(82.46) - (109.7)	EPA 200.8	
Arsenic - D	0530211	0.229	< 0.005	0.025	10	91.7 %	(82.46) - (109.7)	EPA 200.8	
Arsenic - D	0530108	0.107	0.004	0.025	4	103.0 %	(82.46) - (109.7)	EPA 200.8	
Barium - D	0530305	2.28	0.008	0.025	100	90.7 %	(83.16) - (107.7)	EPA 200.8	
Barium - D	0530301	0.240	0.012	0.025	10	91.2 %	(83.16) - (107.7)	EPA 200.8	
Barium - D	0530211	0.226	0.012	0.025	10	85.8 %	(83.16) - (107.7)	EPA 200.8	
Cadmium - D	0530305	2.37	0.059	0.025	100	92.6 %	(87.25) - (106.1)	EPA 200.8	
Cadmium - D	0530301	0.237	0.000	0.025	10	94.5 %	(87.25) - (106.1)	EPA 200.8	
Cadmium - D	0530211	0.226	< 0.000	0.025	10	90.3 %	(87.25) - (106.1)	EPA 200.8	
Cadmium - D	0530108	0.098	< 0.000	0.025	4	98.2 %	(87.25) - (106.1)	EPA 200.8	
Chromium - D	0530211	0.245	< 0.001	0.025	10	97.8 %	(86.15) - (110.1)	EPA 200.8 DRC	
Chromium - D	0530301	0.247	< 0.001	0.025	10	98.8 %	(86.15) - (110.1)	EPA 200.8 DRC	
Chromium - D	0530305	2.60	0.001	0.025	100	103.8 %	(86.15) - (110.1)	EPA 200.8 DRC	
Chromium - D	0530108	0.105	< 0.000	0.025	4	105.3 %	(86.15) - (110.1)	EPA 200.8 DRC	
Lead - D	0530301	0.2354	< 0.0010	0.025	10	94.1 %	(86.52) - (109.5)	EPA 200.8	
Lead - D	0530211	0.2246	0.0027	0.025	10	88.7 %	(86.52) - (109.5)	EPA 200.8	
Lead - D	0530305	2.289	0.0018	0.025	100	91.5 %	(86.52) - (109.5)	EPA 200.8	
Selenium - D	0530108	0.533	0.003	0.125	4	105.9 %	(78.28) - (110.2)	EPA 200.8	
Selenium - D	0530305	12.0	< 0.005	0.125	100	96.1 %	(78.28) - (110.2)	EPA 200.8	
Selenium - D	0530301	1.24	< 0.005	0.125	10	98.8 %	(78.28) - (110.2)	EPA 200.8	
Selenium - D	0530211	1.19	< 0.002	0.125	10	94.9 %	(78.28) - (110.2)	EPA 200.8	
Silver - D	0530108	0.085	< 0.000	0.025	4	84.9 %	(75.56) - (111.2)	EPA 200.8	
Silver - D	0530305	2.37	< 0.001	0.025	100	94.7 %	(75.56) - (111.2)	EPA 200.8	
Silver - D	0530301	0.238	< 0.001	0.025	10	95.3 %	(75.56) - (111.2)	EPA 200.8	
Silver - D	0530211	0.223	< 0.001	0.025	10	89.2 %	(75.56) - (111.2)	EPA 200.8	
Mercury - T	0603103	0.0020	< 0.0002	0.002	1	100.0 %	(86.23) - (111.0)	EPA 245.1	
Mercury - T	0529201	0.0021	< 0.0002	0.002	1	103.0 %	(86.23) - (111.0)	EPA 245.1	
Mercury - T	0529105	0.0021	< 0.0002	0.002	1	104.5 %	(86.23) - (111.0)	EPA 245.1	
Mercury - T	0529205	0.0019	< 0.0002	0.002	1	94.5 %	(86.23) - (111.0)	EPA 245.1	
Mercury - T	0529212	0.0019	< 0.0002	0.002	1	94.5 %	(86.23) - (111.0)	EPA 245.1	
Arsenic - TR	0530110	0.290	0.011	0.025	10	111.6 %	(85.57) - (108.8)	EPA 200.8	X
- Result is within QC guidelines of 70 - 130%									
Arsenic - TR	0530215	0.246	< 0.005	0.025	10	98.3 %	(85.57) - (108.8)	EPA 200.8	
Barium - TR	0530215	0.271	0.025	0.025	10	98.5 %	(86.65) - (104.4)	EPA 200.8	
Barium - TR	0530110	0.251	0.011	0.025	10	96.1 %	(86.65) - (104.4)	EPA 200.8	
Cadmium - TR	0530215	0.252	< 0.000	0.025	10	100.7 %	(89.83) - (105.9)	EPA 200.8	
Cadmium - TR	0530110	0.254	< 0.001	0.025	10	101.4 %	(89.83) - (105.9)	EPA 200.8	

Lab Numbers: **20250521541 - 20250521541**

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Spike									
Chromium - TR	0530110	0.2599	< 0.0004	0.025	10	104.0 %	(82.45) - (116.5)	EPA 200.8 DRC	
Chromium - TR	0530215	0.2776	< 0.0010	0.025	10	111.0 %	(82.45) - (116.5)	EPA 200.8 DRC	
Lead - TR	0530215	0.2472	< 0.0010	0.025	10	98.9 %	(88.49) - (107.0)	EPA 200.8	
Lead - TR	0530110	0.2483	< 0.0010	0.025	10	99.3 %	(88.49) - (107.0)	EPA 200.8	
Selenium - TR	0530110	1.29	< 0.005	0.125	10	103.5 %	(86.23) - (105.2)	EPA 200.8	
Selenium - TR	0530215	1.28	< 0.002	0.125	10	102.4 %	(86.23) - (105.2)	EPA 200.8	
Silver - TR	0530215	0.2543	< 0.0010	0.025	10	101.7 %	(85.56) - (104.6)	EPA 200.8	
Matrix Spike Duplicate									
Arsenic - D	0530305	2.37	2.35	0.025	100	1.03%	(-5.585) - (6.460)	EPA 200.8	
Arsenic - D	0530211	0.229	0.229		10	-0.258%	(-5.585) - (6.460)	EPA 200.8	
Arsenic - D	0530108	0.105	0.107		4	-1.85%	(-5.585) - (6.460)	EPA 200.8	
Arsenic - D	0530301	0.238	0.239		10	-0.491%	(-5.585) - (6.460)	EPA 200.8	
Barium - D	0530211	0.222	0.226		10	-2.04%	(-6.400) - (5.755)	EPA 200.8	
Barium - D	0530301	0.241	0.240		10	0.433%	(-6.400) - (5.755)	EPA 200.8	
Barium - D	0530305	2.30	2.28	0.025	100	0.913%	(-6.400) - (5.755)	EPA 200.8	
Cadmium - D	0530301	0.236	0.237		10	-0.326%	(-6.459) - (6.607)	EPA 200.8	
Cadmium - D	0530108	0.100	0.098		4	1.49%	(-6.459) - (6.607)	EPA 200.8	
Cadmium - D	0530305	2.43	2.37	0.025	100	2.19%	(-6.459) - (6.607)	EPA 200.8	
Cadmium - D	0530211	0.219	0.226		10	-3.01%	(-6.459) - (6.607)	EPA 200.8	
Chromium - D	0530301	0.248	0.247		10	0.307%	(-7.700) - (8.708)	EPA 200.8 DRC	
Chromium - D	0530305	2.39	2.60	0.025	100	-8.37%	(-7.700) - (8.708)	EPA 200.8 DRC	X
- Recovery was within 10% of expected value									
Chromium - D	0530108	0.106	0.105		4	0.199%	(-7.700) - (8.708)	EPA 200.8 DRC	
Chromium - D	0530211	0.235	0.245		10	-4.05%	(-7.700) - (8.708)	EPA 200.8 DRC	
Lead - D	0530301	0.2242	0.2354		10	-4.87%	(-5.239) - (5.122)	EPA 200.8	
Lead - D	0530211	0.2155	0.2246		10	-4.13%	(-5.239) - (5.122)	EPA 200.8	
Lead - D	0530305	2.308	2.289	0.025	100	0.857%	(-5.239) - (5.122)	EPA 200.8	
Selenium - D	0530108	0.534	0.533		4	0.345%	(-5.537) - (5.947)	EPA 200.8	
Selenium - D	0530305	12.1	12.0	0.125	100	0.511%	(-5.537) - (5.947)	EPA 200.8	
Selenium - D	0530211	1.15	1.19		10	-3.07%	(-5.537) - (5.947)	EPA 200.8	
Selenium - D	0530301	1.22	1.24		10	-1.65%	(-5.537) - (5.947)	EPA 200.8	
Silver - D	0530211	0.216	0.223		10	-2.96%	(-4.645) - (6.026)	EPA 200.8	
Silver - D	0530301	0.237	0.238		10	-0.349%	(-4.645) - (6.026)	EPA 200.8	
Silver - D	0530305	2.40	2.37	0.025	100	1.45%	(-4.645) - (6.026)	EPA 200.8	
Silver - D	0530108	0.087	0.085		4	2.72%	(-4.645) - (6.026)	EPA 200.8	
Mercury - T	0529205	0.0018	0.0019		1	-3.23%	(-9.940) - (8.131)	EPA 245.1	
Mercury - T	0529201	0.0020	0.0021		1	-3.96%	(-9.940) - (8.131)	EPA 245.1	
Mercury - T	0529105	0.0021	0.0021		1	-0.480%	(-9.940) - (8.131)	EPA 245.1	
Mercury - T	0603103	0.0019	0.0020		1	-3.56%	(-9.940) - (8.131)	EPA 245.1	
Mercury - T	0529212	0.0018	0.0019		1	-2.68%	(-9.940) - (8.131)	EPA 245.1	
Arsenic - TR	0530110	0.276	0.290		10	-4.94%	(-5.743) - (5.595)	EPA 200.8	
Arsenic - TR	0530215	0.248	0.246		10	0.867%	(-5.743) - (5.595)	EPA 200.8	
Barium - TR	0530215	0.269	0.271		10	-0.763%	(-3.458) - (3.845)	EPA 200.8	
Barium - TR	0530110	0.249	0.251		10	-0.612%	(-3.458) - (3.845)	EPA 200.8	
Cadmium - TR	0530215	0.253	0.252		10	0.424%	(-4.944) - (4.937)	EPA 200.8	

Lab Numbers: **20250521541 - 20250521541**

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Matrix Spike Duplicate									
Cadmium - TR	0530110	0.253	0.254		10	-0.107%	(-4.944) - (4.937)	EPA 200.8	
Chromium - TR	0530215	0.2752	0.2776		10	-0.850%	(-11.23) - (9.697)	EPA 200.8 DRC	
Chromium - TR	0530110	0.2638	0.2599		10	1.46%	(-11.23) - (9.697)	EPA 200.8 DRC	
Lead - TR	0530110	0.2494	0.2483		10	0.458%	(-5.316) - (5.441)	EPA 200.8	
Lead - TR	0530215	0.2461	0.2472		10	-0.466%	(-5.316) - (5.441)	EPA 200.8	
Selenium - TR	0530215	1.28	1.28		10	-0.304%	(-4.639) - (4.359)	EPA 200.8	
Selenium - TR	0530110	1.29	1.29		10	-0.501%	(-4.639) - (4.359)	EPA 200.8	
Silver - TR	0530215	0.2518	0.2543		10	-1.00%	(-5.974) - (6.730)	EPA 200.8	
Initial Calibration Verification									
Arsenic - D		0.048	0.050		1	-3.54%	(-8.769) - (6.105)	EPA 200.8	
Barium - D		0.049	0.050		1	-1.42%	(-6.452) - (8.194)	EPA 200.8	
Cadmium - D		0.049	0.050		1	-2.12%	(-6.011) - (4.933)	EPA 200.8	
Chromium - D		0.051	0.050		1	1.24%	(-7.497) - (11.04)	EPA 200.8 DRC	
Lead - D		0.0483	0.0500		1	-3.44%	(-4.989) - (6.085)	EPA 200.8	
Selenium - D		0.254	0.250		1	1.44%	(-8.681) - (5.067)	EPA 200.8	
Silver - D		0.050	0.050		1	0.660%	(-3.448) - (5.902)	EPA 200.8	
Mercury - T		0.0032	0.0030		1	5.00%	(-5.797) - (12.70)	EPA 245.1	
TPH-Diesel		1060	1000		1	5.60%	(-31.17) - (34.80)	SW846 8015B-S	
Continuing Calibration Verification									
Arsenic - D		0.050	0.050		1	-0.760%	(-8.300) - (5.110)	EPA 200.8	
Arsenic - D		0.047	0.050		1	-5.82%	(-8.300) - (5.110)	EPA 200.8	
Arsenic - D		0.050	0.050		1	-0.260%	(-8.300) - (5.110)	EPA 200.8	
Arsenic - D		0.051	0.050		1	1.24%	(-8.300) - (5.110)	EPA 200.8	
Arsenic - D		0.047	0.050		1	-6.16%	(-8.300) - (5.110)	EPA 200.8	
Arsenic - D		0.046	0.050		1	-8.26%	(-8.300) - (5.110)	EPA 200.8	
Arsenic - D		0.049	0.050		1	-2.92%	(-8.300) - (5.110)	EPA 200.8	
Arsenic - D		0.049	0.050		1	-2.78%	(-8.300) - (5.110)	EPA 200.8	
Arsenic - D		0.049	0.050		1	-1.98%	(-8.300) - (5.110)	EPA 200.8	
Barium - D		0.048	0.050		1	-3.94%	(-5.231) - (3.856)	EPA 200.8	
Barium - D		0.048	0.050		1	-3.18%	(-5.231) - (3.856)	EPA 200.8	
Barium - D		0.050	0.050		1	-0.060%	(-5.231) - (3.856)	EPA 200.8	
Barium - D		0.048	0.050		1	-3.58%	(-5.231) - (3.856)	EPA 200.8	
Barium - D		0.046	0.050		1	-7.42%	(-5.231) - (3.856)	EPA 200.8	X
- Recovery was within 10% of expected value									
Barium - D		0.045	0.050		1	-9.22%	(-5.231) - (3.856)	EPA 200.8	X
- Recovery was within 10% of expected value									
Barium - D		0.050	0.050		1	-0.500%	(-5.231) - (3.856)	EPA 200.8	
Cadmium - D		0.048	0.050		1	-4.52%	(-6.150) - (4.994)	EPA 200.8	
Cadmium - D		0.049	0.050		1	-2.80%	(-6.150) - (4.994)	EPA 200.8	
Cadmium - D		0.046	0.050		1	-8.88%	(-6.150) - (4.994)	EPA 200.8	X
- Recovery was within 10% of expected value									
Cadmium - D		0.048	0.050		1	-4.26%	(-6.150) - (4.994)	EPA 200.8	
Cadmium - D		0.047	0.050		1	-6.22%	(-6.150) - (4.994)	EPA 200.8	X
- Recovery was within 10% of expected value									

Lab Numbers: **20250521541 - 20250521541**

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Continuing Calibration Verification									
Cadmium - D		0.050	0.050		1	-0.240%	(-6.150) - (4.994)	EPA 200.8	
Cadmium - D		0.048	0.050		1	-3.28%	(-6.150) - (4.994)	EPA 200.8	
Cadmium - D		0.048	0.050		1	-4.18%	(-6.150) - (4.994)	EPA 200.8	
Cadmium - D		0.047	0.050		1	-5.70%	(-6.150) - (4.994)	EPA 200.8	
Chromium - D		0.047	0.050		1	-5.36%	(-14.87) - (9.211)	EPA 200.8 DRC	
Chromium - D		0.053	0.050		1	5.42%	(-14.87) - (9.211)	EPA 200.8 DRC	
Chromium - D		0.051	0.050		1	2.06%	(-14.87) - (9.211)	EPA 200.8 DRC	
Chromium - D		0.051	0.050		1	2.30%	(-14.87) - (9.211)	EPA 200.8 DRC	
Chromium - D		0.051	0.050		1	2.80%	(-14.87) - (9.211)	EPA 200.8 DRC	
Chromium - D		0.049	0.050		1	-1.80%	(-14.87) - (9.211)	EPA 200.8 DRC	
Chromium - D		0.050	0.050		1	0.640%	(-14.87) - (9.211)	EPA 200.8 DRC	
Chromium - D		0.047	0.050		1	-6.70%	(-14.87) - (9.211)	EPA 200.8 DRC	
Chromium - D		0.050	0.050		1	0.340%	(-14.87) - (9.211)	EPA 200.8 DRC	
Lead - D		0.0489	0.0500		1	-2.12%	(-2.966) - (5.721)	EPA 200.8	
Lead - D		0.0472	0.0500		1	-5.54%	(-2.966) - (5.721)	EPA 200.8	X
- Recovery was within 10% of expected value									
Lead - D		0.0464	0.0500		1	-7.24%	(-2.966) - (5.721)	EPA 200.8	X
- Recovery was within 10% of expected value									
Lead - D		0.0473	0.0500		1	-5.34%	(-2.966) - (5.721)	EPA 200.8	X
- Recovery was within 10% of expected value									
Lead - D		0.0486	0.0500		1	-2.78%	(-2.966) - (5.721)	EPA 200.8	
Lead - D		0.0467	0.0500		1	-6.60%	(-2.966) - (5.721)	EPA 200.8	X
- Recovery was within 10% of expected value									
Selenium - D		0.254	0.250		1	1.64%	(-10.55) - (7.516)	EPA 200.8	
Selenium - D		0.249	0.250		1	-0.324%	(-10.55) - (7.516)	EPA 200.8	
Selenium - D		0.229	0.250		1	-8.26%	(-10.55) - (7.516)	EPA 200.8	
Selenium - D		0.243	0.250		1	-2.75%	(-10.55) - (7.516)	EPA 200.8	
Selenium - D		0.251	0.250		1	0.252%	(-10.55) - (7.516)	EPA 200.8	
Selenium - D		0.241	0.250		1	-3.51%	(-10.55) - (7.516)	EPA 200.8	
Selenium - D		0.245	0.250		1	-1.88%	(-10.55) - (7.516)	EPA 200.8	
Selenium - D		0.241	0.250		1	-3.70%	(-10.55) - (7.516)	EPA 200.8	
Selenium - D		0.241	0.250		1	-3.47%	(-10.55) - (7.516)	EPA 200.8	
Silver - D		0.048	0.050		1	-3.88%	(-9.022) - (9.572)	EPA 200.8	
Silver - D		0.051	0.050		1	1.38%	(-9.022) - (9.572)	EPA 200.8	
Silver - D		0.046	0.050		1	-8.52%	(-9.022) - (9.572)	EPA 200.8	
Silver - D		0.049	0.050		1	-2.02%	(-9.022) - (9.572)	EPA 200.8	
Silver - D		0.050	0.050		1	0.320%	(-9.022) - (9.572)	EPA 200.8	
Silver - D		0.046	0.050		1	-7.28%	(-9.022) - (9.572)	EPA 200.8	
Mercury - T		0.0019	0.0020		1	-3.00%	(-10.40) - (12.27)	EPA 245.1	
Mercury - T		0.0019	0.0020		1	-5.50%	(-10.40) - (12.27)	EPA 245.1	
Mercury - T		0.0018	0.0020		1	-9.00%	(-10.40) - (12.27)	EPA 245.1	
Mercury - T		0.0010	0.0010		1	-2.00%	(-10.40) - (12.27)	EPA 245.1	
Mercury - T		0.0051	0.0050		1	2.00%	(-10.40) - (12.27)	EPA 245.1	
Mercury - T		0.0019	0.0020		1	-4.50%	(-10.40) - (12.27)	EPA 245.1	
Mercury - T		0.0018	0.0020		1	-10.0 %	(-10.40) - (12.27)	EPA 245.1	
Mercury - T		0.0019	0.0020		1	-3.50%	(-10.40) - (12.27)	EPA 245.1	

Lab Numbers: **20250521541 - 20250521541**

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Continuing Calibration Verification									
Mercury - T		0.0018	0.0020		1	-8.00%	(-10.40) - (12.27)	EPA 245.1	
Mercury - T		0.0020	0.0020		1	-2.50%	(-10.40) - (12.27)	EPA 245.1	
Mercury - T		0.0020	0.0020		1	-2.50%	(-10.40) - (12.27)	EPA 245.1	
Benzene		22.2	25.0		1	-11.1 %	(-4.851) - (15.41)	SW846 8021B	X
- Recovery was within 20% of expected value									
Benzene		24.3	25.0		1	-2.79%	(-10.49) - (19.26)	SW846 8021B	
Benzene		21.8	25.0		1	-12.6 %	(-10.49) - (19.26)	SW846 8021B	X
- Recovery was within 20% of expected value									
Benzene		23.8	25.0		1	-4.64%	(-10.49) - (19.26)	SW846 8021B	
Ethylbenzene		22.6	25.0		1	-9.76%	(-1.343) - (12.12)	SW846 8021B	X
- Recovery was within 10% of expected value									
Ethylbenzene		22.1	25.0		1	-11.6 %	(-7.561) - (16.79)	SW846 8021B	X
- Recovery was within 20% of expected value									
Ethylbenzene		24.2	25.0		1	-3.03%	(-7.561) - (16.79)	SW846 8021B	
- Recovery was within 10% of expected value									
Ethylbenzene		24.8	25.0		1	-0.932%	(-7.561) - (16.79)	SW846 8021B	
MTBE		21.9	25.0		1	-12.4 %	(-5.048) - (19.32)	SW846 8021B	X
- Recovery was within 20% of expected value									
MTBE		24.1	25.0		1	-3.55%	(-11.71) - (23.83)	SW846 8021B	
MTBE		22.0	25.0		1	-12.0 %	(-11.71) - (23.83)	SW846 8021B	X
- Recovery was within 20% of expected value									
MTBE		24.0	25.0		1	-3.98%	(-11.71) - (23.83)	SW846 8021B	
Naphthalene		22.8	25.0		1	-8.81%	(-26.95) - (31.58)	SW846 8021B	
Naphthalene		27.3	25.0		1	9.24%	(-26.12) - (31.06)	SW846 8021B	
Naphthalene		27.6	25.0		1	10.3 %	(-26.12) - (31.06)	SW846 8021B	
Naphthalene		25.3	25.0		1	1.14%	(-26.12) - (31.06)	SW846 8021B	
Toluene		22.7	25.0		1	-9.32%	(-1.714) - (21.20)	SW846 8021B	X
- Recovery was within 10% of expected value									
Toluene		24.4	25.0		1	-2.36%	(-8.385) - (25.85)	SW846 8021B	
- Recovery was within 10% of expected value									
Toluene		22.2	25.0		1	-11.0 %	(-8.385) - (25.85)	SW846 8021B	X
- Recovery was within 20% of expected value									
Toluene		24.8	25.0		1	-0.660%	(-8.385) - (25.85)	SW846 8021B	
Xylenes(o,m,p)		68.7	75.0		1	-8.35%	(-1.334) - (17.92)	SW846 8021B	X
- Recovery was within 10% of expected value									
Xylenes(o,m,p)		73.5	75.0		1	-1.98%	(-7.289) - (22.12)	SW846 8021B	
- Recovery was within 10% of expected value									
Xylenes(o,m,p)		67.9	75.0		1	-9.41%	(-7.289) - (22.12)	SW846 8021B	X
- Recovery was within 10% of expected value									
Xylenes(o,m,p)		75.3	75.0		1	0.395%	(-7.289) - (22.12)	SW846 8021B	
TPH Gas		1910	2000		1	-4.37%	(-20.59) - (6.318)	SW846 8015B	
TPH Gas		1760	2000		1	-11.8 %	(-19.67) - (6.239)	SW846 8015B	
TPH Gas		1870	2000		1	-6.42%	(-19.67) - (6.239)	SW846 8015B	
TPH Gas		1870	2000		1	-6.72%	(-19.67) - (6.239)	SW846 8015B	
TPH-Diesel		1130	1000		1	13.2 %	(-16.13) - (29.58)	SW846 8015B-S	
TPH-Diesel		1190	1000		1	19.4 %	(-16.13) - (29.58)	SW846 8015B-S	

Lab Numbers: **20250521541 - 20250521541**

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Lab Control Spike									
Benzene		0.965	0.00	1.00	1	96.5 %	(78.48) - (130.1)	SW846 8021B-S	
Ethylbenzene		0.971	0.00	1.00	1	97.1 %	(83.80) - (129.6)	SW846 8021B-S	
MTBE		0.959	0.00	1.00	1	95.9 %	(72.80) - (136.1)	SW846 8021B-S	
Naphthalene		0.702	0.00	1.00	1	70.2 %	(25.98) - (159.9)	SW846 8021B-S	
Toluene		0.981	0.00	1.00	1	98.1 %	(81.32) - (134.7)	SW846 8021B-S	
Xylenes(o,m,p)		2.98	0.00	3.00	1	99.2 %	(83.26) - (134.5)	SW846 8021B-S	
TPH Gas		95.8	0.00	100	1	95.8 %	(67.17) - (112.5)	SW846 8015B-S	
TPH-Diesel		178	0.00	200	1	88.8 %	(60.80) - (105.3)	SW846 8015B-S	
Initial Calibration Blank									
Mercury - T		-0.0001	0.000		1	-0.00005	(-0.0001) - (0.0001)	EPA 245.1	
Continuing Calibration Blank									
Arsenic - D		0.000	0.00		1	0.00002	(0.0000) - (0.0001)	EPA 200.8	
Barium - D		0.00	0.00		1	0	(0.0000) - (0.0000)	EPA 200.8	
Cadmium - D		0.000	0.00		1	0.00001	(0.0000) - (0.0000)	EPA 200.8	
Chromium - D		0.000	0.00		1	0.00001	(0.0000) - (0.0001)	EPA 200.8 DRC	
Lead - D		0.000	0.000		1	0	(0.0000) - (0.0001)	EPA 200.8	
Selenium - D		0.000	0.00		1	0.00007	(-0.0001) - (0.0003)	EPA 200.8	
Silver - D		0.000	0.00		1	0.00001	(-0.0001) - (0.0001)	EPA 200.8	
Mercury - T		-0.0001	0.000		1	-0.00005	(-0.0001) - (0.0001)	EPA 245.1	
Mercury - T		0.0000	0.000		1	-0.00004	(-0.0001) - (0.0001)	EPA 245.1	
Mercury - T		0.0000	0.000		1	-0.00004	(-0.0001) - (0.0001)	EPA 245.1	
Mercury - T		0.0000	0.000		1	-0.00004	(-0.0001) - (0.0001)	EPA 245.1	
Mercury - T		0.0000	0.000		1	-0.00004	(-0.0001) - (0.0001)	EPA 245.1	
Mercury - T		0.0000	0.000		1	-0.00004	(-0.0001) - (0.0001)	EPA 245.1	
Mercury - T		0.0000	0.000		1	-0.00004	(-0.0001) - (0.0001)	EPA 245.1	
Mercury - T		0.0000	0.000		1	-0.00001	(-0.0001) - (0.0001)	EPA 245.1	
Lab Reagent Blank									
Benzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S	
Ethylbenzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S	
MTBE		0.041	0.00		1	0.0405	(-0.0235) - (0.0976)	SW846 8021B-S	
Naphthalene		0.00	0.00		1	0	(-0.0527) - (0.0712)	SW846 8021B-S	
Toluene		0.00	0.00		1	0	(-0.0310) - (0.0419)	SW846 8021B-S	
Xylenes(o,m,p)		0.00	0.00		1	0	(-0.0664) - (0.1534)	SW846 8021B-S	
TPH Gas		1.82	0.00		1	1.81676	(-0.6892) - (1.278)	SW846 8015B-S	X
- Blank value is less than half of the reporting limit									
TPH-Diesel		0.00	0.00		1	0	(-6.848) - (9.495)	SW846 8015B-S	

Approved By:

Approved On: 06/05/2025 01:48 PM

AMERICAN ENGINEERING TESTING, INC.

☐ St. Paul Office
550 Cleveland Ave. N.
St. Paul, MN 55114
651-659-9001
651-659-1379 (fax)

☒ OTHER Rapid City Office

ADDRESS: 1745 Samco Road
Rapid City, SD
PHONE: 605-388-0029

16276

PAGE 1 OF 1

AET PROJECT NUMBER P-0043683 P.O.# 18-1144

PROJECT NAME/LOCATION Flying J UST System Removal

AET PROJECT MANAGER Jeremy Huot

SEND REPORT TO J. Huot & B. Bishop

SAMPLED BY (PRINT) Jeremy Huot

SAMPLER SIGNATURE J Huot

REQUESTED TURNAROUND TIME: ☒ NORMAL ☐ RUSH

DATE NEEDED BY: _____

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	MeOH	HCL	H_2SO_4	HNO_3	FIELD FILTERED Y/N	ANALYSIS: TPH-G, BTEX, MTBE	TPH-D, Naphthalene	TCLP RCRA 8 Metals	REMARKS
1	Landfill Disposal	5/21/25	1315	Soil	2	X					N	X	X	X	2025052154L

NOTE: 12.5°C
good, blue ice
hand

ITEM NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
1	J Huot / AET		5/21/25	13:30

MIDCONTINENT TESTING LABORATORIES

SAMPLE RECEIPT CHECKLIST

Company Name: AET — Date/Time Received: 5/21/25 (Date) / 1330 (Time)

Project: Flying J UST System Removal — Received by: Shela

Lab Number(s): 202505211541 — Carrier Name: Hand Delivered

UNPACKING

Yes	No		Initials
☑	☐	1. Shipping container in good condition?	
☐	☑	2. Custody seals present on shipping container? Condition: Intact ☐ Broken ☐	
☑	☐	3. Ice / Blue Ice (circle one) present in shipping container? Container(s) Temp. 1. 12.5 C 2. _____ 3. _____ 4. _____	
☐	☑	4. Bottles broken and/or leaking? (Photograph broken bottles.)	
☐	☑	5. Custody seals on sample bottles? Condition: Intact ☐ Broken ☐	

LABELING

Yes	No		Initials
☑	☐	6. Chain of custody Present?	
☑	☐	7. Chain of custody includes signatures, dates, and times when relinquished and received?	
☑	☐	8. Chain of custody agrees with bottle count?	
☑	☐	9. Chain of custody agrees with labels?	
☑	☐	10. Samples received within holding times?	
☑	☐	11. Samples in proper container?	
☑	☐	12. Sufficient sample volume for indicated tests?	

PRESERVATIVE

Yes	No		Initials	Yes	No		Initials
☐	☐	13. Metals bottle(s) pH < 2?		☐	☐	17. TOC bottle(s) pH < 2?	
☐	☐	14. Nutrient bottle(s) pH < 2?		☐	☐	18. Oil & Grease bottle(s) pH < 2?	
☐	☐	15. Cyanide bottle(s) pH > 12?		☐	☐	19. Volatiles pH < 2?	
☐	☐	16. Sulfide bottle(s) pH > 9?					

COMMENTS:

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	PI-A
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/30/25 at 07:35 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250530541
Received:	05/30/25 at 10:25 AM by Tanya Nelsen
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Semi-Volatile							
Naphthalene-soc	< 10.0	mg/kg	20	1.39	10.0	SW846 8100-S	SAC 06/04/25
TPH Diesel	17600	mg/kg	100	130	1000	SW846 8015B-S	SAC 06/04/25
Extraction							
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC 06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	D-surrogate not calculated due to dilution.				

Report Approved By:



Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	PI-B
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/30/25 at 07:42 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

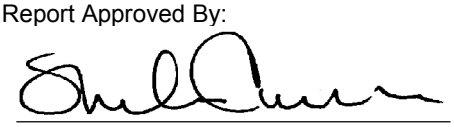
Lab ID#:	20250530542
Received:	05/30/25 at 10:25 AM by Tanya Nelsen
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date	
Semi-Volatile								
Naphthalene-soc	< 25.0	mg/kg	50	3.48	25.0	SW846 8100-S	SAC	06/05/25
TPH Diesel	14100	mg/kg	50	65.0	500	SW846 8015B-S	SAC	06/05/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	D-surrogate not calculated due to dilution.				

Report Approved By:



Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	PI-C
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/30/25 at 07:44 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

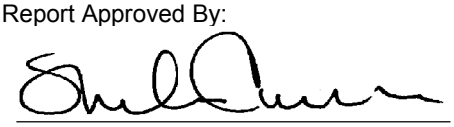
Lab ID#:	20250530543
Received:	05/30/25 at 10:25 AM by Tanya Nelsen
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date	
Semi-Volatile								
Naphthalene-soc	14.2	mg/kg	20	1.39	10.0	SW846 8100-S	SAC	06/05/25
TPH Diesel	24100	mg/kg	20	26.0	200	SW846 8015B-S	SAC	06/05/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	D-surrogate not calculated due to dilution.				

Report Approved By:



Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	PI-D
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/30/25 at 07:46 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

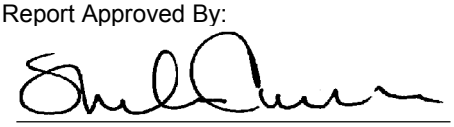
Lab ID#:	20250530544
Received:	05/30/25 at 10:25 AM by Tanya Nelsen
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date	
Semi-Volatile								
Naphthalene-soc	< 10.0	mg/kg	20	1.39	10.0	SW846 8100-S	SAC	06/05/25
TPH Diesel	11400	mg/kg	20	26.0	200	SW846 8015B-S	SAC	06/05/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	D-surrogate not calculated due to dilution.				

Report Approved By:



Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: PI-E
Project Name: Flying J UST System Removal
Project Number: P-0043683
Sampled: 05/30/25 at 07:55 AM
by Jeremy Huot
Sample Matrix: Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#: 20250530545
Received: 05/30/25 at 10:25 AM
by Tanya Nelsen
Account: W1202 - AET - Rapid City

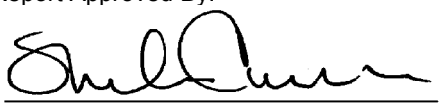
Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Semi-Volatile							
Naphthalene-soc	< 25.0	mg/kg	300	20.9	150	SW846 8100-S	SAC 06/05/25
TPH Diesel	58200	mg/kg	300	390	3000	SW846 8015B-S	SAC 06/05/25
Extraction							
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC 06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	127.0 %	(69.22) - (137.1)	1	SW846 8015-S QC	SAC 06/05/25

Notes:
Naphthalene reported below PQL but above MDL.

Report Approved By:



Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	PI-F
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/30/25 at 07:50 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

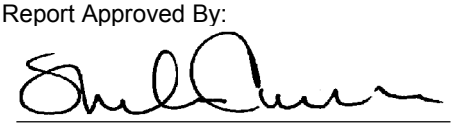
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Received:	05/30/25 at 10:25 AM by Tanya Nelsen
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date	
Semi-Volatile								
Naphthalene-soc	< 10.0	mg/kg	20	1.39	10.0	SW846 8100-S	SAC	06/05/25
TPH Diesel	1490	mg/kg	20	26.0	200	SW846 8015B-S	SAC	06/05/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	D-surrogate not calculated due to dilution.				

Report Approved By:



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MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
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Sample Site:	PI-G
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/30/25 at 07:58 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250530547
Received:	05/30/25 at 10:25 AM by Tanya Nelsen
Account:	W1202 - AET - Rapid City

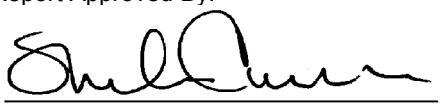
Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Semi-Volatile							
Naphthalene-soc	< 25.0	mg/kg	200	13.9	100	SW846 8100-S	SAC 06/05/25
TPH Diesel	20000	mg/kg	200	260	2000	SW846 8015B-S	SAC 06/05/25
Extraction							
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC 06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	D-surrogate not calculated due to dilution.				

Notes:
Naphthalene reported below PQL but above MDL.

Report Approved By:



Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
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2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	PI-H
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/30/25 at 08:00 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250530548
Received:	05/30/25 at 10:25 AM by Tanya Nelsen
Account:	W1202 - AET - Rapid City

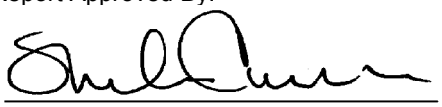
Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Semi-Volatile							
Naphthalene-soc	< 25.0	mg/kg	100	6.97	50.0	SW846 8100-S	SAC 06/05/25
TPH Diesel	33200	mg/kg	100	130	1000	SW846 8015B-S	SAC 06/05/25
Extraction							
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC 06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	D-surrogate not calculated due to dilution.				

Notes:
Naphthalene reported below PQL but above MDL.

Report Approved By:



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MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	PI-I
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/30/25 at 08:05 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

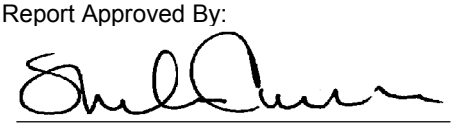
Lab ID#:	20250530549
Received:	05/30/25 at 10:25 AM by Tanya Nelsen
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Semi-Volatile							
Naphthalene-soc	< 0.500	mg/kg	1	0.070	0.500	SW846 8100-S	SAC 06/05/25
TPH Diesel	604	mg/kg	1	1.30	10.0	SW846 8015B-S	SAC 06/04/25
Extraction							
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC 06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	D-surrogate not calculated due to dilution.				

Report Approved By:



Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: PI-J
Project Name: Flying J UST System Removal
Project Number: P-0043683
Sampled: 05/30/25 at 08:12 AM
by Jeremy Huot
Sample Matrix: Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

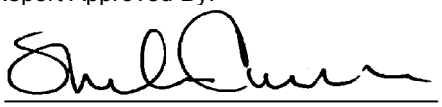
Lab ID#: 20250530550
Received: 05/30/25 at 10:25 AM
by Tanya Nelsen
Account: W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Volatile							
Benzene	< 0.050	mg/kg	1	0.018	0.050	SW846 8021B-S	SAC 06/03/25
Ethylbenzene	0.135	mg/kg	1	0.016	0.100	SW846 8021B-S	SAC 06/03/25
Methyl tertiary-Butyl Ether	< 0.100	mg/kg	1	0.023	0.100	SW846 8021B-S	SAC 06/03/25
Naphthalene	0.259	mg/kg	1	0.025	0.200	SW846 8021B-S	SAC 06/03/25
Toluene	< 0.100	mg/kg	1	0.015	0.100	SW846 8021B-S	SAC 06/03/25
Xylenes(o,m,p)	0.306	mg/kg	1	0.060	0.200	SW846 8021B-S	SAC 06/03/25
Total Volatile Hydrocarbons							
TPH as Gasoline	18.1	mg/kg	1	0.689	10.0	SW846 8015B-S	SAC 06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-Volatile					
4-Bromofluorobenzene	105.5 %	(56.89) - (149.9)	1	SW846 8021B QC	SAC 06/03/25

Report Approved By:



Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: PI-K
Project Name: Flying J UST System Removal
Project Number: P-0043683
Sampled: 05/30/25 at 08:15 AM
by Jeremy Huot
Sample Matrix: Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#: 20250530551
Received: 05/30/25 at 10:25 AM
by Tanya Nelsen
Account: W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Volatile							
Benzene	< 0.050	mg/kg	1	0.018	0.050	SW846 8021B-S	SAC 06/03/25
Ethylbenzene	0.148	mg/kg	1	0.016	0.100	SW846 8021B-S	SAC 06/03/25
Methyl tertiary-Butyl Ether	< 0.100	mg/kg	1	0.023	0.100	SW846 8021B-S	SAC 06/03/25
Naphthalene	0.279	mg/kg	1	0.025	0.200	SW846 8021B-S	SAC 06/03/25
Toluene	< 0.100	mg/kg	1	0.015	0.100	SW846 8021B-S	SAC 06/03/25
Xylenes(o,m,p)	0.359	mg/kg	1	0.060	0.200	SW846 8021B-S	SAC 06/03/25
Total Volatile Hydrocarbons							
TPH as Gasoline	28.2	mg/kg	1	0.689	10.0	SW846 8015B-S	SAC 06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-Volatile					
4-Bromofluorobenzene	108.0 %	(56.89) - (149.9)	1	SW846 8021B QC	SAC 06/03/25

Report Approved By:

Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	PI-L
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/30/25 at 08:18 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250530552
Received:	05/30/25 at 10:25 AM by Tanya Nelsen
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Volatile							
Benzene	0.551	mg/kg	4	0.071	0.200	SW846 8021B-S	SAC 06/03/25
Ethylbenzene	3.19	mg/kg	4	0.064	0.400	SW846 8021B-S	SAC 06/03/25
Methyl tertiary-Butyl Ether	< 0.400	mg/kg	4	0.093	0.400	SW846 8021B-S	SAC 06/03/25
Naphthalene	< 0.800	mg/kg	4	0.099	0.800	SW846 8021B-S	SAC 06/03/25
Toluene	7.94	mg/kg	4	0.060	0.400	SW846 8021B-S	SAC 06/03/25
Xylenes(o,m,p)	35.8	mg/kg	4	0.240	0.800	SW846 8021B-S	SAC 06/03/25
Total Volatile Hydrocarbons							
TPH as Gasoline	329	mg/kg	4	2.76	40.0	SW846 8015B-S	SAC 06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-Volatile					
4-Bromofluorobenzene	117.8 %	(56.89) - (149.9)	4	SW846 8021B QC	SAC 06/03/25

Report Approved By:

Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	PI-M
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/30/25 at 08:23 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250530553
Received:	05/30/25 at 10:25 AM by Tanya Nelsen
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	< 0.200	mg/kg	4	0.071	0.200	SW846 8021B-S	SAC	06/03/25
Ethylbenzene	0.456	mg/kg	4	0.064	0.400	SW846 8021B-S	SAC	06/03/25
Methyl tertiary-Butyl Ether	< 0.400	mg/kg	4	0.093	0.400	SW846 8021B-S	SAC	06/03/25
Naphthalene	5.07	mg/kg	4	0.099	0.800	SW846 8021B-S	SAC	06/03/25
Toluene	< 0.400	mg/kg	4	0.060	0.400	SW846 8021B-S	SAC	06/03/25
Xylenes(o,m,p)	1.00	mg/kg	4	0.240	0.800	SW846 8021B-S	SAC	06/03/25
Total Volatile Hydrocarbons								
TPH as Gasoline	287	mg/kg	4	2.76	40.0	SW846 8015B-S	SAC	06/03/25
Semi-Volatile								
TPH Diesel	4330	mg/kg	20	26.0	200	SW846 8015B-S	SAC	06/05/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	107.0 %	(56.89) - (149.9)	4	SW846 8021B QC	SAC	06/03/25

Report Approved By:



Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	PI-N
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	05/30/25 at 08:28 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

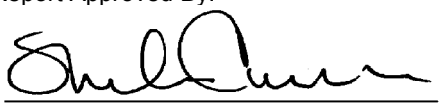
Lab ID#:	20250530554
Received:	05/30/25 at 10:25 AM by Tanya Nelsen
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	< 0.050	mg/kg	1	0.018	0.050	SW846 8021B-S	SAC	06/12/25
Ethylbenzene	< 0.100	mg/kg	1	0.016	0.100	SW846 8021B-S	SAC	06/12/25
Methyl tertiary-Butyl Ether	< 0.100	mg/kg	1	0.023	0.100	SW846 8021B-S	SAC	06/12/25
Naphthalene	0.339	mg/kg	1	0.025	0.200	SW846 8021B-S	SAC	06/12/25
Toluene	< 0.100	mg/kg	1	0.015	0.100	SW846 8021B-S	SAC	06/12/25
Xylenes(o,m,p)	0.350	mg/kg	1	0.060	0.200	SW846 8021B-S	SAC	06/12/25
Total Volatile Hydrocarbons								
TPH as Gasoline	28.9	mg/kg	1	0.689	10.0	SW846 8015B-S	SAC	06/12/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	100.1 %	(56.24) - (145.8)	1	SW846 8021B QC	SAC	06/12/25

Report Approved By:



Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: PI-O
Project Name: Flying J UST System Removal
Project Number: P-0043683
Sampled: 05/30/25 at 08:32 AM
by Jeremy Huot
Sample Matrix: Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

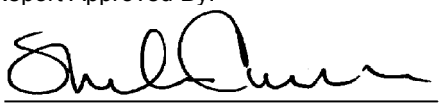
Lab ID#: 20250530555
Received: 05/30/25 at 10:25 AM
by Tanya Nelsen
Account: W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Volatile							
Benzene	< 0.050	mg/kg	1	0.018	0.050	SW846 8021B-S	SAC 06/13/25
Ethylbenzene	< 0.100	mg/kg	1	0.016	0.100	SW846 8021B-S	SAC 06/13/25
Methyl tertiary-Butyl Ether	< 0.100	mg/kg	1	0.023	0.100	SW846 8021B-S	SAC 06/13/25
Naphthalene	< 0.200	mg/kg	1	0.025	0.200	SW846 8021B-S	SAC 06/13/25
Toluene	< 0.100	mg/kg	1	0.015	0.100	SW846 8021B-S	SAC 06/13/25
Xylenes(o,m,p)	< 0.200	mg/kg	1	0.060	0.200	SW846 8021B-S	SAC 06/13/25
Total Volatile Hydrocarbons							
TPH as Gasoline	< 10.0	mg/kg	1	0.689	10.0	SW846 8015B-S	SAC 06/13/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-Volatile					
4-Bromofluorobenzene	94.4 %	(65.25) - (140.9)	1	SW846 8021B QC	SAC 06/13/25

Report Approved By:



Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: PI-P
Project Name: Flying J UST System Removal
Project Number: P-0043683
Sampled: 05/30/25 at 08:35 AM
by Jeremy Huot
Sample Matrix: Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#: 20250530556
Received: 05/30/25 at 10:25 AM
by Tanya Nelsen
Account: W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Volatile							
Benzene	< 0.050	mg/kg	1	0.018	0.050	SW846 8021B-S	SAC 06/02/25
Ethylbenzene	0.118	mg/kg	1	0.016	0.100	SW846 8021B-S	SAC 06/02/25
Methyl tertiary-Butyl Ether	< 0.100	mg/kg	1	0.023	0.100	SW846 8021B-S	SAC 06/02/25
Naphthalene	2.41	mg/kg	1	0.025	0.200	SW846 8021B-S	SAC 06/02/25
Toluene	< 0.100	mg/kg	1	0.015	0.100	SW846 8021B-S	SAC 06/02/25
Xylenes(o,m,p)	0.643	mg/kg	1	0.060	0.200	SW846 8021B-S	SAC 06/02/25
Total Volatile Hydrocarbons							
TPH as Gasoline	129	mg/kg	1	0.689	10.0	SW846 8015B-S	SAC 06/02/25
Semi-Volatile							
TPH Diesel	2730	mg/kg	50	65.0	500	SW846 8015B-S	SAC 06/05/25
Extraction							
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC 06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-Volatile					
4-Bromofluorobenzene	118.1 %	(57.37) - (148.1)	1	SW846 8021B QC	SAC 06/02/25
Surrogate Recovery-SV					
Ortho-Terphenyl	D-surrogate not calculated due to dilution.				

Report Approved By:

Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: PI-Q
Project Name: Flying J UST System Removal
Project Number: P-0043683
Sampled: 05/30/25 at 08:40 AM
by Jeremy Huot
Sample Matrix: Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#: 20250530557
Received: 05/30/25 at 10:25 AM
by Tanya Nelsen
Account: W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	< 0.050	mg/kg	1	0.018	0.050	SW846 8021B-S	SAC	06/03/25
Ethylbenzene	< 0.100	mg/kg	1	0.016	0.100	SW846 8021B-S	SAC	06/03/25
Methyl tertiary-Butyl Ether	< 0.100	mg/kg	1	0.023	0.100	SW846 8021B-S	SAC	06/03/25
Naphthalene	0.272	mg/kg	1	0.025	0.200	SW846 8021B-S	SAC	06/03/25
Toluene	< 0.100	mg/kg	1	0.015	0.100	SW846 8021B-S	SAC	06/03/25
Xylenes(o,m,p)	< 0.200	mg/kg	1	0.060	0.200	SW846 8021B-S	SAC	06/03/25
Total Volatile Hydrocarbons								
TPH as Gasoline	19.7	mg/kg	1	0.689	10.0	SW846 8015B-S	SAC	06/03/25
Semi-Volatile								
TPH Diesel	130	mg/kg	1	1.30	10.0	SW846 8015B-S	SAC	06/05/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	06/03/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	97.7 %	(56.89) - (149.9)	1	SW846 8021B QC	SAC	06/03/25
Surrogate Recovery-SV						
Ortho-Terphenyl	116.1 %	(69.22) - (137.1)	1	SW846 8015-S QC	SAC	06/05/25

Report Approved By:

Report Approved On: 6/24/2025 4:44:45 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Lab Numbers: 20250530541 - 20250530557

QC Sample Report

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Spike									
Benzene	0609542	0.961	< 0.050	1.00	1	96.1 %	(67.26) - (115.3)	SW846 8021B-S	
Ethylbenzene	0609542	0.975	< 0.100	1.00	1	97.5 %	(80.98) - (111.1)	SW846 8021B-S	
MTBE	0609542	0.950	< 0.100	1.00	1	95.0 %	(64.47) - (111.9)	SW846 8021B-S	
Naphthalene	0609542	0.993	< 0.200	1.00	1	99.3 %	(60.48) - (143.4)	SW846 8021B-S	
Toluene	0609542	0.981	< 0.100	1.00	1	98.1 %	(73.57) - (113.9)	SW846 8021B-S	
Xylenes(o,m,p)	0609542	2.96	0.232	3.00	1	91.0 %	(74.86) - (117.9)	SW846 8021B-S	
TPH Gas	0609543	89.6	< 10.0	100	1	89.6 %	(54.60) - (129.8)	SW846 8015B-S	
Matrix Spike Duplicate									
Benzene	0609542	0.935	0.961		1	-2.74%	(-14.44) - (12.01)	SW846 8021B-S	
Ethylbenzene	0609542	0.940	0.975		1	-3.66%	(-17.41) - (14.72)	SW846 8021B-S	
MTBE	0609542	0.913	0.950		1	-3.97%	(-12.76) - (11.01)	SW846 8021B-S	
Naphthalene	0609542	0.955	0.993		1	-3.90%	(-32.34) - (30.46)	SW846 8021B-S	
Toluene	0609542	0.952	0.981		1	-3.00%	(-15.63) - (13.19)	SW846 8021B-S	
Xylenes(o,m,p)	0609542	2.87	2.96		1	-3.22%	(-15.28) - (13.93)	SW846 8021B-S	
TPH Gas	0609543	90.4	89.6		1	0.950%	(-18.82) - (14.24)	SW846 8015B-S	
Initial Calibration Verification									
TPH-Diesel		1060	1000		1	5.60%	(-31.17) - (34.80)	SW846 8015B-S	
Continuing Calibration Verification									
Benzene		22.2	25.0		1	-11.1 %	(-4.851) - (15.41)	SW846 8021B	X
- Recovery was within 20% of expected value									
Benzene		21.8	25.0		1	-12.6 %	(-10.49) - (19.26)	SW846 8021B	X
- Recovery was within 20% of expected value									
Benzene		23.8	25.0		1	-4.64%	(-10.49) - (19.26)	SW846 8021B	
Benzene		24.3	25.0		1	-2.79%	(-10.49) - (19.26)	SW846 8021B	
Benzene		23.3	25.0		1	-6.80%	(-17.02) - (21.90)	SW846 8021B	
Benzene		23.7	25.0		1	-5.16%	(-18.47) - (22.17)	SW846 8021B	
Ethylbenzene		22.6	25.0		1	-9.76%	(-1.343) - (12.12)	SW846 8021B	X
- Recovery was within 10% of expected value									
Ethylbenzene		24.2	25.0		1	-3.03%	(-7.561) - (16.79)	SW846 8021B	
- Recovery was within 10% of expected value									
Ethylbenzene		22.1	25.0		1	-11.6 %	(-7.561) - (16.79)	SW846 8021B	X
- Recovery was within 20% of expected value									
Ethylbenzene		24.8	25.0		1	-0.932%	(-7.561) - (16.79)	SW846 8021B	
Ethylbenzene		23.6	25.0		1	-5.78%	(-15.10) - (19.95)	SW846 8021B	
Ethylbenzene		23.8	25.0		1	-4.70%	(-16.30) - (19.95)	SW846 8021B	

Lab Numbers: **20250530541 - 20250530557**

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Continuing Calibration Verification									
MTBE		21.9	25.0		1	-12.4 %	(-5.048) - (19.32)	SW846 8021B	X
- Recovery was within 20% of expected value									
MTBE		24.0	25.0		1	-3.98%	(-11.71) - (23.83)	SW846 8021B	
MTBE		24.1	25.0		1	-3.55%	(-11.71) - (23.83)	SW846 8021B	
MTBE		22.0	25.0		1	-12.0 %	(-11.71) - (23.83)	SW846 8021B	X
- Recovery was within 20% of expected value									
MTBE		23.6	25.0		1	-5.66%	(-18.57) - (26.07)	SW846 8021B	
MTBE		23.7	25.0		1	-5.28%	(-19.77) - (25.73)	SW846 8021B	
Naphthalene		22.8	25.0		1	-8.81%	(-26.95) - (31.58)	SW846 8021B	
Naphthalene		27.6	25.0		1	10.3 %	(-26.12) - (31.06)	SW846 8021B	
Naphthalene		27.3	25.0		1	9.24%	(-26.12) - (31.06)	SW846 8021B	
Naphthalene		25.3	25.0		1	1.14%	(-26.12) - (31.06)	SW846 8021B	
Naphthalene		28.1	25.0		1	12.5 %	(-20.64) - (29.53)	SW846 8021B	
Naphthalene		26.9	25.0		1	7.52%	(-20.85) - (30.45)	SW846 8021B	
Toluene		22.7	25.0		1	-9.32%	(-1.714) - (21.20)	SW846 8021B	X
- Recovery was within 10% of expected value									
Toluene		22.2	25.0		1	-11.0 %	(-8.385) - (25.85)	SW846 8021B	X
- Recovery was within 20% of expected value									
Toluene		24.4	25.0		1	-2.36%	(-8.385) - (25.85)	SW846 8021B	
- Recovery was within 10% of expected value									
Toluene		24.8	25.0		1	-0.660%	(-8.385) - (25.85)	SW846 8021B	
Toluene		23.8	25.0		1	-4.73%	(-16.40) - (29.28)	SW846 8021B	
Toluene		24.2	25.0		1	-3.27%	(-18.18) - (29.66)	SW846 8021B	
Xylenes(o,m,p)		68.7	75.0		1	-8.35%	(-1.334) - (17.92)	SW846 8021B	X
- Recovery was within 10% of expected value									
Xylenes(o,m,p)		67.9	75.0		1	-9.41%	(-7.289) - (22.12)	SW846 8021B	X
- Recovery was within 10% of expected value									
Xylenes(o,m,p)		73.5	75.0		1	-1.98%	(-7.289) - (22.12)	SW846 8021B	
- Recovery was within 10% of expected value									
Xylenes(o,m,p)		75.3	75.0		1	0.395%	(-7.289) - (22.12)	SW846 8021B	
Xylenes(o,m,p)		71.4	75.0		1	-4.78%	(-13.90) - (24.99)	SW846 8021B	
Xylenes(o,m,p)		72.7	75.0		1	-3.09%	(-15.64) - (25.50)	SW846 8021B	
TPH Gas		1910	2000		1	-4.37%	(-20.59) - (6.318)	SW846 8015B	
TPH Gas		1870	2000		1	-6.72%	(-19.67) - (6.239)	SW846 8015B	
TPH Gas		1870	2000		1	-6.42%	(-19.67) - (6.239)	SW846 8015B	
TPH Gas		1760	2000		1	-11.8 %	(-19.67) - (6.239)	SW846 8015B	
TPH Gas		1830	2000		1	-8.47%	(-18.12) - (5.530)	SW846 8015B	
TPH Gas		1750	2000		1	-12.5 %	(-18.26) - (5.543)	SW846 8015B	
Naphthalene-soc		29.9	25.0		1	19.6 %	(-37.58) - (31.86)	SW846 8100-S	
Naphthalene-soc		24.5	25.0		1	-2.00%	(-37.58) - (31.86)	SW846 8100-S	
Naphthalene-soc		24.5	25.0		1	-2.00%	(-35.98) - (31.98)	SW846 8100-S	
Naphthalene-soc		27.2	25.0		1	8.80%	(-33.60) - (31.08)	SW846 8100-S	
TPH-Diesel		1190	1000		1	19.4 %	(-16.13) - (29.58)	SW846 8015B-S	
TPH-Diesel		1130	1000		1	13.2 %	(-16.13) - (29.58)	SW846 8015B-S	
TPH-Diesel		1100	1000		1	9.50%	(-11.93) - (33.13)	SW846 8015B-S	
TPH-Diesel		1190	1000		1	19.2 %	(-11.93) - (33.13)	SW846 8015B-S	

Lab Numbers: **20250530541 - 20250530557**

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Continuing Calibration Verification									
TPH-Diesel		1090	1000		1	9.20%	(-8.962) - (32.73)	SW846 8015B-S	
Lab Control Spike									
Benzene		0.965	0.00	1.00	1	96.5 %	(78.48) - (130.1)	SW846 8021B-S	
Benzene		1.00	0.00	1.00	1	100.0 %	(82.69) - (127.2)	SW846 8021B-S	
Ethylbenzene		0.971	0.00	1.00	1	97.1 %	(83.80) - (129.6)	SW846 8021B-S	
Ethylbenzene		1.01	0.00	1.00	1	101.3 %	(85.66) - (128.3)	SW846 8021B-S	
MTBE		0.959	0.00	1.00	1	95.9 %	(72.80) - (136.1)	SW846 8021B-S	
MTBE		1.01	0.00	1.00	1	101.3 %	(75.10) - (134.8)	SW846 8021B-S	
Naphthalene		0.702	0.00	1.00	1	70.2 %	(25.98) - (159.9)	SW846 8021B-S	
Naphthalene		1.06	0.00	1.00	1	106.4 %	(23.97) - (160.7)	SW846 8021B-S	
Toluene		0.981	0.00	1.00	1	98.1 %	(81.32) - (134.7)	SW846 8021B-S	
Toluene		1.02	0.00	1.00	1	102.3 %	(84.57) - (132.4)	SW846 8021B-S	
Xylenes(o,m,p)		2.98	0.00	3.00	1	99.2 %	(83.26) - (134.5)	SW846 8021B-S	
Xylenes(o,m,p)		3.07	0.00	3.00	1	102.4 %	(85.74) - (132.8)	SW846 8021B-S	
TPH Gas		95.8	0.00	100	1	95.8 %	(67.17) - (112.5)	SW846 8015B-S	
TPH Gas		90.3	0.00	100	1	90.3 %	(67.10) - (113.1)	SW846 8015B-S	
Naphthalene-soc		2.30	0.00	2.50	1	92.0 %	(44.44) - (96.48)	SW846 8100-S	
Lab Fortified Blank									
TPH-Diesel		178	0.00	200	1	88.8 %		SW846 8015B-S	
Lab Reagent Blank									
Benzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S	
Benzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S	
Ethylbenzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S	
Ethylbenzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S	
MTBE		0.041	0.00		1	0.0405	(-0.0235) - (0.0976)	SW846 8021B-S	
MTBE		0.034	0.00		1	0.03438	(-0.0155) - (0.0937)	SW846 8021B-S	
Naphthalene		0.00	0.00		1	0	(-0.0527) - (0.0712)	SW846 8021B-S	
Naphthalene		0.00	0.00		1	0	(-0.0527) - (0.0712)	SW846 8021B-S	
Toluene		0.00	0.00		1	0	(-0.0310) - (0.0419)	SW846 8021B-S	
Toluene		0.00	0.00		1	0	(-0.0310) - (0.0419)	SW846 8021B-S	
Xylenes(o,m,p)		0.00	0.00		1	0	(-0.0664) - (0.1534)	SW846 8021B-S	
Xylenes(o,m,p)		0.00	0.00		1	0	(-0.0714) - (0.1554)	SW846 8021B-S	
TPH Gas		1.82	0.00		1	1.81676	(-0.6892) - (1.278)	SW846 8015B-S	X
- Blank value is less than half of the reporting limit									
TPH Gas		1.86	0.00		1	1.85603	(-0.9841) - (1.641)	SW846 8015B-S	X
- Blank value is less than half of the reporting limit									
Naphthalene-soc		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8100-S	
TPH-Diesel		0.00	0.00		1	0	(-6.848) - (9.495)	SW846 8015B-S	

Approved By: 

Approved On: 06/24/2025 04:44 PM

AMERICAN ENGINEERING TESTING, INC.

☐ St. Paul Office
550 Cleveland Ave. N.
St. Paul, MN 55114
651-659-9001
651-659-1379 (fax)

☒ OTHER Rapid City Office

ADDRESS: 1745 Samco Rd
Rapid City, SD

PHONE: 605-388-0029

16273

PAGE 1 OF 2

AET PROJECT NUMBER P-0043683 P.O.# 18-1145

PROJECT NAME/LOCATION Flying J UST System Removal

AET PROJECT MANAGER J. Huot

SEND REPORT TO J. Huot & B. Bishop

SAMPLED BY (PRINT) Jeremy Huot

SAMPLER SIGNATURE

REQUESTED TURNAROUND TIME: ☒ NORMAL ☐ RUSH

DATE NEEDED BY:

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	MeOH	HCL	H_2SO_4	HNO_3	FIELD FILTERED Y/N	ANALYSIS: TPH-G, BTEX, Naphthalene	TPH-D, Naphthalene	REMARKS
1	PI-A	5/30/25	7:35	Soil	1	X					N	X		20250530541
2	PI-B		7:42		1							X		542
3	PI-C		7:44		1							X		543
4	PI-D		7:46		1							X		544
5	PI-E		7:56		1							X		545
6	PI-F		7:50		1							X		546
7	PI-G		7:58		1							X		547
8	PI-H		8:00		1							X		548
9	PI-I		8:05		1							X		549
10	PI-J		8:12		1								X	550
11	PI-K		8:15		1								X	551
12	PI-L	↓	8:18	↓	1	↓					↓		X	552

NOTE:
16.3° C
on ice

ITEM NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
1-12	Huot / AET	Tanya Nelson / MCC	5/30/25	10:25

MIDCONTINENT

SAMPLE RECEIPT CHECKLIST

Company Name AET

Date/Time Received 5/30/25 (Date) 1025 (Time)

Project Flying J UST System Removal

Received by Tanya

Lab Number(s) 20250530541-557

Carrier Name Hand Delivered

UNPACKING

Yes	No		Initials
☑	☐	1. Shipping container in good condition?	
☐	☑	2. Custody seals present on shipping container? Condition: Intact ☐ Broken ☐	
☑	☐	3. (Ice) / Blue Ice (circle one) present in shipping container? Container(s) Temp. 1. 16.3°C 2. _____ 3. _____ 4. _____	
☐	☑	4. Bottles broken and/or leaking? (Photograph broken bottles.)	
☐	☑	5. Custody seals on sample bottles? Condition: Intact ☐ Broken ☐	

LABELING

Yes	No		Initials
☑	☐	6. Chain of custody Present?	
☑	☐	7. Chain of custody includes signatures, dates, and times when relinquished and received?	
☑	☐	8. Chain of custody agrees with bottle count?	
☑	☐	9. Chain of custody agrees with labels?	
☑	☐	10. Samples received within holding times?	
☑	☐	11. Samples in proper container?	
☑	☐	12. Sufficient sample volume for indicated tests?	

PRESERVATIVE

Yes	No		Initials	Yes	No		Initials
☐	☐	13. Metals bottle(s) pH < 2?		☐	☐	17. TOC bottle(s) pH < 2?	
☐	☐	14. Nutrient bottle(s) pH < 2?		☐	☐	18. Oil & Grease bottle(s) pH < 2?	
☐	☐	15. Cyanide bottle(s) pH > 12?		☐	☐	19. Volatiles pH < 2?	
☐	☐	16. Sulfide bottle(s) pH > 9?					

COMMENTS:

AMERICAN ENGINEERING TESTING, INC.

☐ St. Paul Office
550 Cleveland Ave. N.
St. Paul, MN 55114
651-659-9001
651-659-1379 (fax)

☒ OTHER Rapid City Office
ADDRESS: 1745 Samco Rd
Rapid City, SD
PHONE: 605-388-0029

16274

PAGE 2 OF 2

AET PROJECT NUMBER P-0043683 P.O. # 18-1145
PROJECT NAME/LOCATION Flying J UST System Removal
AET PROJECT MANAGER J. Huot
SEND REPORT TO J. Huot & B. Bishop
SAMPLED BY (PRINT) Jeremy Huot
SAMPLER SIGNATURE

REQUESTED TURNAROUND TIME: ☒ NORMAL ☐ RUSH

DATE NEEDED BY:

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	MeOH	HCL	H_2SO_4	HNO_3	FIELD FILTERED Y/N	ANALYSIS: TPH-G, BTEX, Naphthalene	TPH-D, Naphthalene	REMARKS
13	PI-M	5/30/25	8:23	Soil	2	X					N	X	X	20250530553
14	PI-N		8:28		1	X					N	X		554
15	PI-O		8:32		1	X					N	X		555
16	PI-P		8:35		2	X					N	X	X	556
17	PI-Q	↓	8:40	↓	2	X					N	X	X	557

NOTE:
Temp. 16.3
on ice

ITEM NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
13-17	AET	Sonya Nelson/MCT	5/30/25	10:25

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	W Def Basin 3-5'
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	06/06/25 at 09:00 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250606541
Received:	06/06/25 at 01:41 PM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	< 0.200	mg/kg	4	0.071	0.200	SW846 8021B-S	SAC	06/12/25
Ethylbenzene	1.10	mg/kg	4	0.064	0.400	SW846 8021B-S	SAC	06/12/25
Naphthalene	4.41	mg/kg	4	0.099	0.800	SW846 8021B-S	SAC	06/12/25
Toluene	< 0.400	mg/kg	4	0.060	0.400	SW846 8021B-S	SAC	06/12/25
Xylenes(o,m,p)	2.72	mg/kg	4	0.240	0.800	SW846 8021B-S	SAC	06/12/25
Total Volatile Hydrocarbons								
TPH as Gasoline	382	mg/kg	4	2.76	40.0	SW846 8015B-S	SAC	06/12/25
Semi-Volatile								
TPH Diesel	612	mg/kg	1	1.30	10.0	SW846 8015B-S	SAC	06/26/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	06/17/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	133.9 %	(56.24) - (145.8)	4	SW846 8021B QC	SAC	06/12/25
Surrogate Recovery-SV						
Ortho-Terphenyl	117.2 %	(67.35) - (144.6)	1	SW846 8015-S QC	SAC	06/26/25

Report Approved By:



Report Approved On: 6/27/2025 3:56:06 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	W Def Basin 6-8'
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	06/06/25 at 09:05 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250606542
Received:	06/06/25 at 01:41 PM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	< 0.200	mg/kg	4	0.071	0.200	SW846 8021B-S	SAC	06/12/25
Ethylbenzene	1.29	mg/kg	4	0.064	0.400	SW846 8021B-S	SAC	06/12/25
Naphthalene	8.52	mg/kg	4	0.099	0.800	SW846 8021B-S	SAC	06/12/25
Toluene	< 0.400	mg/kg	4	0.060	0.400	SW846 8021B-S	SAC	06/12/25
Xylenes(o,m,p)	3.92	mg/kg	4	0.240	0.800	SW846 8021B-S	SAC	06/12/25
Total Volatile Hydrocarbons								
TPH as Gasoline	605	mg/kg	4	2.76	40.0	SW846 8015B-S	SAC	06/12/25
Semi-Volatile								
TPH Diesel	1360	mg/kg	24	31.2	240	SW846 8015B-S	SAC	06/26/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	06/17/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	125.1 %	(56.24) - (145.8)	4	SW846 8021B QC	SAC	06/12/25
Surrogate Recovery-SV						
Ortho-Terphenyl	D-Surrogate not calculated due to dilution.					

Report Approved By:



Report Approved On: 6/27/2025 3:56:06 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Lab Numbers: 20250606541 - 20250606542

QC Sample Report

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method
Spike								
TPH-Diesel	0609545	272	< 10.0	300	1	90.5 %	(55.63) - (103.7)	SW846 8015B-S
Matrix Spike Duplicate								
TPH-Diesel		267	272		1	-1.82%	(-26.16) - (25.60)	SW846 8015B-S
Initial Calibration Verification								
TPH-Diesel		1010	1000		1	1.00%	(-29.40) - (32.49)	SW846 8015B-S
Continuing Calibration Verification								
Benzene		23.3	25.0		1	-6.80%	(-17.02) - (21.90)	SW846 8021B
Benzene		23.7	25.0		1	-5.16%	(-18.47) - (22.17)	SW846 8021B
Ethylbenzene		23.6	25.0		1	-5.78%	(-15.10) - (19.95)	SW846 8021B
Ethylbenzene		23.8	25.0		1	-4.70%	(-16.30) - (19.95)	SW846 8021B
Naphthalene		28.1	25.0		1	12.5 %	(-20.64) - (29.53)	SW846 8021B
Naphthalene		26.9	25.0		1	7.52%	(-20.85) - (30.45)	SW846 8021B
Toluene		23.8	25.0		1	-4.73%	(-16.40) - (29.28)	SW846 8021B
Toluene		24.2	25.0		1	-3.27%	(-18.18) - (29.66)	SW846 8021B
Xylenes(o,m,p)		71.4	75.0		1	-4.78%	(-13.90) - (24.99)	SW846 8021B
Xylenes(o,m,p)		72.7	75.0		1	-3.09%	(-15.64) - (25.50)	SW846 8021B
TPH Gas		1830	2000		1	-8.47%	(-18.12) - (5.530)	SW846 8015B
TPH Gas		1750	2000		1	-12.5 %	(-18.26) - (5.543)	SW846 8015B
TPH-Diesel		982	1000		1	-1.80%	(-8.939) - (32.73)	SW846 8015B-S
TPH-Diesel		895	1000		1	-10.5 %	(-11.36) - (34.07)	SW846 8015B-S
- Recovery was within 20% of expected value								
TPH-Diesel		1020	1000		1	2.20%	(-16.74) - (37.36)	SW846 8015B-S
TPH-Diesel		1030	1000		1	3.20%	(-16.74) - (37.36)	SW846 8015B-S
Lab Control Spike								
Benzene		1.00	0.00	1.00	1	100.0 %	(82.69) - (127.2)	SW846 8021B-S
Ethylbenzene		1.01	0.00	1.00	1	101.3 %	(85.66) - (128.3)	SW846 8021B-S
Naphthalene		1.06	0.00	1.00	1	106.4 %	(23.97) - (160.7)	SW846 8021B-S
Toluene		1.02	0.00	1.00	1	102.3 %	(84.57) - (132.4)	SW846 8021B-S
Xylenes(o,m,p)		3.07	0.00	3.00	1	102.4 %	(85.74) - (132.8)	SW846 8021B-S
TPH Gas		90.3	0.00	100	1	90.3 %	(67.10) - (113.1)	SW846 8015B-S
TPH-Diesel		172	0.00	200	1	86.0 %	(67.80) - (102.2)	SW846 8015B-S
Lab Reagent Blank								
Benzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S

Lab Numbers: **20250606541 - 20250606542**

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Lab Reagent Blank									
Ethylbenzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S	
Naphthalene		0.00	0.00		1	0	(-0.0527) - (0.0712)	SW846 8021B-S	
Toluene		0.00	0.00		1	0	(-0.0310) - (0.0419)	SW846 8021B-S	
Xylenes(o,m,p)		0.00	0.00		1	0	(-0.0714) - (0.1554)	SW846 8021B-S	
TPH Gas		1.86	0.00		1	1.85603	(-0.9841) - (1.641)	SW846 8015B-S	X
- Blank value is less than half of the reporting limit									
TPH-Diesel		0.00	0.00		1	0	(-6.943) - (9.491)	SW846 8015B-S	

Approved By: 

Approved On: 06/27/2025 03:56 PM

AMERICAN ENGINEERING TESTING, INC.

☐ St. Paul Office
550 Cleveland Ave. N.
St. Paul, MN 55114
651-659-9001
651-659-1379 (fax)

☒ OTHER Rapid City Office
ADDRESS: 1745 Samco Rd
Rapid City, SD
PHONE: 605-388-0029

16277

PAGE 1 OF 1

AET PROJECT NUMBER P-0043683
PROJECT NAME/LOCATION Flying J UST System Removal
AET PROJECT MANAGER J. Huot
SEND REPORT TO J. Huot & B. Bishop
SAMPLED BY (PRINT) Jeremy Huot
SAMPLER SIGNATURE

REQUESTED TURNAROUND TIME: ☐ NORMAL ☐ RUSH

DATE NEEDED BY:

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	MeOH	HCL	H_2SO_4	HNO_3	FIELD FILTERED Y/N	ANALYSIS: TPH-G, BTEX	TPH-D, Naphthalene	REMARKS
1	W Def Basin 3-5'	6/6/25	9:00	Soil	1	X					N	X	X	20250606-541
2	W Def Basin 6-8'	6/6/25	9:05	Soil	1	X					N	X	X	↓ 542

NOTE: 15.3°C blue ice

ITEM NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
1 & 2	J Huot / AET	[illegible]	6/6/25	13:41

MIDCONTINENT TESTING LABORATORIES

SAMPLE RECEIPT CHECKLIST

Company Name: AET

Date/Time Received: 6/6/25 (Date) / 1341 (Time)

Project: Flying J UST Sys. Removal

Received by: Sheba

Lab Number(s): 202506066 541-547

Carrier Name: Hand Delivered

UNPACKING

Yes	No		Initials
☑	☐	1. Shipping container in good condition?	
☐	☑	2. Custody seals present on shipping container? Condition: Intact ☐ Broken ☐	
☑	☐	3. Ice / Blue Ice (circle one) present in shipping container? Container(s) Temp. 1. 15.3°C 2. _____ 3. _____ 4. _____	
☐	☑	4. Bottles broken and/or leaking? (Photograph broken bottles.)	
☐	☑	5. Custody seals on sample bottles? Condition: Intact ☐ Broken ☐	

LABELING

Yes	No		Initials
☑	☐	6. Chain of custody Present?	
☑	☐	7. Chain of custody includes signatures, dates, and times when relinquished and received?	
☑	☐	8. Chain of custody agrees with bottle count?	
☑	☐	9. Chain of custody agrees with labels?	
☑	☐	10. Samples received within holding times?	
☑	☐	11. Samples in proper container?	
☑	☐	12. Sufficient sample volume for indicated tests?	

PRESERVATIVE

Yes	No		Initials	Yes	No		Initials
☐	☐	13. Metals bottle(s) pH < 2?		☐	☐	17. TOC bottle(s) pH < 2?	
☐	☐	14. Nutrient bottle(s) pH < 2?		☐	☐	18. Oil & Grease bottle(s) pH < 2?	
☐	☐	15. Cyanide bottle(s) pH > 12?		☐	☐	19. Volatiles pH < 2?	
☐	☐	16. Sulfide bottle(s) pH > 9?					

COMMENTS:

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	T-1
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	07/02/25 at 08:50 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

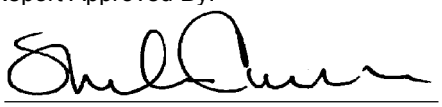
Lab ID#:	20250707541
Received:	07/07/25 at 10:15 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Semi-Volatile								
Naphthalene-soc	< 0.500	mg/kg	1	0.070	0.500	SW846 8100-S	SAC	07/22/25
TPH Diesel	224	mg/kg	1	1.30	10.0	SW846 8015B-S	SAC	07/22/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-SV						
Ortho-Terphenyl	113.4 %	(-10.05) - (205.4)	1	SW846 8015-S QC	SAC	07/22/25
	- Result is within QC guidelines of 70 - 130%					

Report Approved By:



Report Approved On: 7/31/2025 4:23:01 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	T-2
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	07/02/25 at 09:00 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

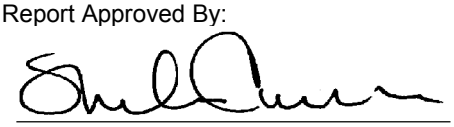
Lab ID#:	20250707542
Received:	07/07/25 at 10:15 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Semi-Volatile							
Naphthalene-soc	< 5.00	mg/kg	10	0.697	5.00	SW846 8100-S	SAC 07/23/25
TPH Diesel	2260	mg/kg	10	13.0	100	SW846 8015B-S	SAC 07/23/25
Extraction							
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC 07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	92.9 %	(-8.253) - (205.1)	1	SW846 8015-S QC	SAC 07/23/25

Report Approved By:



Report Approved On: 7/31/2025 4:23:01 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	T-3
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	07/02/25 at 09:05 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

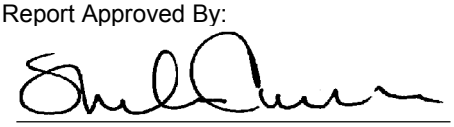
Lab ID#:	20250707543
Received:	07/07/25 at 10:15 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Semi-Volatile							
Naphthalene-soc	< 5.00	mg/kg	10	0.697	5.00	SW846 8100-S	SAC 07/22/25
TPH Diesel	1760	mg/kg	10	13.0	100	SW846 8015B-S	SAC 07/22/25
Extraction							
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC 07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	D-Surrogate not calculated due to dilution.				

Report Approved By:



Report Approved On: 7/31/2025 4:23:01 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	T-4
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	07/02/25 at 09:15 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

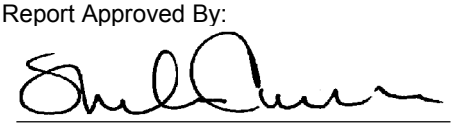
Lab ID#:	20250707544
Received:	07/07/25 at 10:15 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Semi-Volatile							
Naphthalene-soc	< 5.00	mg/kg	10	0.697	5.00	SW846 8100-S	SAC 07/23/25
TPH Diesel	940	mg/kg	10	13.0	100	SW846 8015B-S	SAC 07/23/25
Extraction							
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC 07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	D-Surrogate not calculated due to dilution.				

Report Approved By:



Report Approved On: 7/31/2025 4:23:01 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	T-5
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	07/02/25 at 09:30 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250707545
Received:	07/07/25 at 10:15 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	< 0.050	mg/kg	1	0.018	0.050	SW846 8021B-S	SAC	07/09/25
Ethylbenzene	0.183	mg/kg	1	0.016	0.100	SW846 8021B-S	SAC	07/09/25
Methyl tertiary-Butyl Ether	< 0.100	mg/kg	1	0.023	0.100	SW846 8021B-S	SAC	07/09/25
Naphthalene	0.690	mg/kg	1	0.025	0.200	SW846 8021B-S	SAC	07/09/25
Toluene	< 0.100	mg/kg	1	0.015	0.100	SW846 8021B-S	SAC	07/09/25
Xylenes(o,m,p)	0.363	mg/kg	1	0.060	0.200	SW846 8021B-S	SAC	07/09/25
Total Volatile Hydrocarbons								
TPH as Gasoline	47.7	mg/kg	1	0.689	10.0	SW846 8015B-S	SAC	07/09/25
Semi-Volatile								
TPH Diesel	350	mg/kg	1	1.30	10.0	SW846 8015B-S	SAC	07/23/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	112.3 %	(65.78) - (111.1)	1	SW846 8021B QC	SAC	07/09/25
Surrogate Recovery-SV						
Ortho-Terphenyl	107.0 %	(-8.253) - (205.1)	1	SW846 8015-S QC	SAC	07/23/25
	- Result is within QC guidelines of 70 - 130%					

Report Approved By:

Report Approved On: 7/31/2025 4:23:01 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: T-6
Project Name: Flying J UST System Removal
Project Number: P-0043683
Sampled: 07/02/25 at 09:40 AM
by Jeremy Huot
Sample Matrix: Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#: 20250707546
Received: 07/07/25 at 10:15 AM
by Shela Carpenter
Account: W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Volatile							
Benzene	0.256	mg/kg	4	0.071	0.200	SW846 8021B-S	SAC 07/09/25
Ethylbenzene	2.11	mg/kg	4	0.064	0.400	SW846 8021B-S	SAC 07/09/25
Methyl tertiary-Butyl Ether	< 0.400	mg/kg	4	0.093	0.400	SW846 8021B-S	SAC 07/09/25
Naphthalene	2.66	mg/kg	4	0.099	0.800	SW846 8021B-S	SAC 07/09/25
Toluene	1.02	mg/kg	4	0.060	0.400	SW846 8021B-S	SAC 07/09/25
Xylenes(o,m,p)	7.49	mg/kg	4	0.240	0.800	SW846 8021B-S	SAC 07/09/25
Total Volatile Hydrocarbons							
TPH as Gasoline	286	mg/kg	4	2.76	40.0	SW846 8015B-S	SAC 07/09/25
Semi-Volatile							
TPH Diesel	2770	mg/kg	24	31.2	240	SW846 8015B-S	SAC 07/22/25
Extraction							
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC 07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-Volatile					
4-Bromofluorobenzene	107.4 %	(65.78) - (111.1)	4	SW846 8021B QC	SAC 07/09/25
Surrogate Recovery-SV					
Ortho-Terphenyl	D-Surrogate not calculated due to dilution.				

Report Approved By:

Report Approved On: 7/31/2025 4:23:01 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: T-7
Project Name: Flying J UST System Removal
Project Number: P-0043683
Sampled: 07/02/25 at 09:45 AM
by Jeremy Huot
Sample Matrix: Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#: 20250707547
Received: 07/07/25 at 10:15 AM
by Shela Carpenter
Account: W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	< 0.200	mg/kg	4	0.071	0.200	SW846 8021B-S	SAC	07/10/25
Ethylbenzene	0.645	mg/kg	4	0.064	0.400	SW846 8021B-S	SAC	07/10/25
Methyl tertiary-Butyl Ether	< 0.400	mg/kg	4	0.093	0.400	SW846 8021B-S	SAC	07/10/25
Naphthalene	2.24	mg/kg	4	0.099	0.800	SW846 8021B-S	SAC	07/10/25
Toluene	< 0.400	mg/kg	4	0.060	0.400	SW846 8021B-S	SAC	07/10/25
Xylenes(o,m,p)	8.77	mg/kg	4	0.240	0.800	SW846 8021B-S	SAC	07/10/25
Total Volatile Hydrocarbons								
TPH as Gasoline	277	mg/kg	4	2.76	40.0	SW846 8015B-S	SAC	07/10/25
Semi-Volatile								
TPH Diesel	338	mg/kg	1	1.30	10.0	SW846 8015B-S	SAC	07/23/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	113.0 %	(68.31) - (119.1)	4	SW846 8021B QC	SAC	07/10/25
Surrogate Recovery-SV						
Ortho-Terphenyl	102.8 %	(-8.253) - (205.1)	1	SW846 8015-S QC	SAC	07/23/25
	- Result is within QC guidelines of 80 - 120%					

Report Approved By:



Report Approved On: 7/31/2025 4:23:01 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	Basin 1
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	07/02/25 at 10:45 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250707548
Received:	07/07/25 at 10:15 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	34.0	mg/kg	100	1.77	5.00	SW846 8021B-S	SAC	07/10/25
Ethylbenzene	99.5	mg/kg	100	1.61	10.0	SW846 8021B-S	SAC	07/10/25
Methyl tertiary-Butyl Ether	< 10.0	mg/kg	100	2.31	10.0	SW846 8021B-S	SAC	07/10/25
Naphthalene	< 20.0	mg/kg	100	2.49	20.0	SW846 8021B-S	SAC	07/10/25
Toluene	368	mg/kg	100	1.49	10.0	SW846 8021B-S	SAC	07/10/25
Xylenes(o,m,p)	606	mg/kg	100	6.00	20.0	SW846 8021B-S	SAC	07/10/25
Total Volatile Hydrocarbons								
TPH as Gasoline	6410	mg/kg	100	68.9	1000	SW846 8015B-S	SAC	07/10/25
Semi-Volatile								
TPH Diesel	1980	mg/kg	10	13.0	100	SW846 8015B-S	SAC	07/22/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	95.9 %	(68.31) - (119.1)	100	SW846 8021B QC	SAC	07/10/25
Surrogate Recovery-SV						
Ortho-Terphenyl	122.7 %	(-10.05) - (205.4)	1	SW846 8015-S QC	SAC	07/22/25
	- Result is within QC guidelines of 70 - 130%					

Report Approved By:



Report Approved On: 7/31/2025 4:23:01 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: Basin 2
Project Name: Flying J UST System Removal
Project Number: P-0043683
Sampled: 07/02/25 at 11:00 AM
by Jeremy Huot
Sample Matrix: Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#: 20250707549
Received: 07/07/25 at 10:15 AM
by Shela Carpenter
Account: W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	97.9	mg/kg	100	1.77	5.00	SW846 8021B-S	SAC	07/10/25
Ethylbenzene	241	mg/kg	100	1.61	10.0	SW846 8021B-S	SAC	07/10/25
Methyl tertiary-Butyl Ether	< 10.0	mg/kg	100	2.31	10.0	SW846 8021B-S	SAC	07/10/25
Naphthalene	63.6	mg/kg	100	2.49	20.0	SW846 8021B-S	SAC	07/10/25
Toluene	500	mg/kg	100	1.49	10.0	SW846 8021B-S	SAC	07/10/25
Xylenes(o,m,p)	1320	mg/kg	100	6.00	20.0	SW846 8021B-S	SAC	07/10/25
Total Volatile Hydrocarbons								
TPH as Gasoline	12400	mg/kg	100	68.9	1000	SW846 8015B-S	SAC	07/10/25
Semi-Volatile								
TPH Diesel	6070	mg/kg	24	31.2	240	SW846 8015B-S	SAC	07/22/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	105.7 %	(68.31) - (119.1)	100	SW846 8021B QC	SAC	07/10/25
Surrogate Recovery-SV						
Ortho-Terphenyl	D-Surrogate not calculated due to dilution.					

Report Approved By:



Report Approved On: 7/31/2025 4:23:01 PM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Lab Numbers: 20250707541 - 20250707549

QC Sample Report

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Spike									
Benzene	0724543	0.837	< 0.050	1.00	1	83.7 %	(67.57) - (115.7)	SW846 8021B-S	
Ethylbenzene	0724543	0.846	< 0.100	1.00	1	84.6 %	(81.27) - (111.2)	SW846 8021B-S	
MTBE	0724543	0.811	< 0.100	1.00	1	81.1 %	(64.53) - (111.1)	SW846 8021B-S	
Toluene	0724543	0.853	< 0.100	1.00	1	85.3 %	(74.04) - (114.3)	SW846 8021B-S	
Xylenes(o,m,p)	0724543	2.57	< 0.200	3.00	1	85.6 %	(74.65) - (118.0)	SW846 8021B-S	
TPH Gas	0724544	85.2	< 10.0	100	1	85.2 %	(59.50) - (119.8)	SW846 8015B-S	
TPH-Diesel	0709541	228	79.8	200	1	74.1 %	(56.63) - (104.8)	SW846 8015B-S	
Matrix Spike Duplicate									
Benzene	0724543	0.819	0.837		1	-2.17%	(-15.10) - (11.79)	SW846 8021B-S	
Ethylbenzene	0724543	0.826	0.846		1	-2.39%	(-18.45) - (14.28)	SW846 8021B-S	
MTBE	0724543	0.794	0.811		1	-2.12%	(-12.38) - (9.964)	SW846 8021B-S	
Naphthalene	0724543	0.776	0.694		1	11.2 %	(-31.43) - (27.99)	SW846 8021B-S	
Toluene	0724543	0.835	0.853		1	-2.13%	(-15.91) - (12.61)	SW846 8021B-S	
Xylenes(o,m,p)	0724543	2.53	2.57		1	-1.37%	(-15.94) - (13.45)	SW846 8021B-S	
TPH Gas	0724544	82.5	85.2		1	-3.14%	(-17.80) - (14.21)	SW846 8015B-S	
TPH-Diesel	0709541	213	228		1	-6.80%	(-26.11) - (25.44)	SW846 8015B-S	
Initial Calibration Verification									
TPH-Diesel		975	1000		1	-2.50%	(-27.24) - (28.17)	SW846 8015B-S	
Continuing Calibration Verification									
Benzene		22.9	25.0		1	-8.22%	(-18.36) - (8.726)	SW846 8021B	
Benzene		22.5	25.0		1	-9.85%	(-16.79) - (4.567)	SW846 8021B	
Benzene		22.2	25.0		1	-11.1 %	(-16.79) - (4.567)	SW846 8021B	
Benzene		22.8	25.0		1	-8.81%	(-16.01) - (4.054)	SW846 8021B	
Ethylbenzene		22.6	25.0		1	-9.50%	(-18.39) - (9.017)	SW846 8021B	
Ethylbenzene		22.3	25.0		1	-10.9 %	(-15.37) - (3.205)	SW846 8021B	
Ethylbenzene		22.2	25.0		1	-11.1 %	(-15.37) - (3.205)	SW846 8021B	
Ethylbenzene		22.6	25.0		1	-9.65%	(-15.89) - (2.984)	SW846 8021B	
MTBE		22.7	25.0		1	-9.22%	(-21.86) - (14.91)	SW846 8021B	
MTBE		21.4	25.0		1	-14.5 %	(-18.01) - (6.383)	SW846 8021B	
MTBE		20.4	25.0		1	-18.4 %	(-18.01) - (6.383)	SW846 8021B	X
- Within QC limits.									
MTBE		22.3	25.0		1	-10.8 %	(-20.82) - (5.551)	SW846 8021B	
Naphthalene		25.5	25.0		1	1.90%	(-13.10) - (30.33)	SW846 8021B	
Naphthalene		26.0	25.0		1	4.19%	(-10.68) - (26.45)	SW846 8021B	
Naphthalene		26.1	25.0		1	4.24%	(-10.68) - (26.45)	SW846 8021B	

Lab Numbers: **20250707541 - 20250707549**

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Continuing Calibration Verification									
Naphthalene		22.8	25.0		1	-8.65%	(-5.364) - (22.75)	SW846 8021B	X
- Within 10% of expected value.									
Toluene		23.1	25.0		1	-7.79%	(-17.67) - (11.45)	SW846 8021B	
Toluene		22.8	25.0		1	-8.83%	(-14.48) - (4.517)	SW846 8021B	
Toluene		22.7	25.0		1	-9.16%	(-14.48) - (4.517)	SW846 8021B	
Toluene		22.9	25.0		1	-8.46%	(-13.76) - (4.038)	SW846 8021B	
Xylenes(o,m,p)		68.8	75.0		1	-8.21%	(-17.14) - (10.54)	SW846 8021B	
Xylenes(o,m,p)		67.7	75.0		1	-9.74%	(-14.07) - (3.538)	SW846 8021B	
Xylenes(o,m,p)		68.6	75.0		1	-8.56%	(-14.07) - (3.538)	SW846 8021B	
Xylenes(o,m,p)		68.7	75.0		1	-8.37%	(-14.20) - (3.621)	SW846 8021B	
TPH Gas		1800	2000		1	-9.88%	(-21.26) - (4.081)	SW846 8015B	
TPH Gas		1820	2000		1	-8.95%	(-20.62) - (0.1899)	SW846 8015B	
TPH Gas		1760	2000		1	-11.8 %	(-20.62) - (0.1899)	SW846 8015B	
TPH Gas		1770	2000		1	-11.4 %	(-20.55) - (-0.1848)	SW846 8015B	
Naphthalene-soc		23.7	25.0		1	-5.20%	(-31.80) - (29.96)	SW846 8100-S	
Naphthalene-soc		20.8	25.0		1	-16.8 %	(-30.72) - (29.52)	SW846 8100-S	
Naphthalene-soc		21.1	25.0		1	-15.6 %	(-30.72) - (29.52)	SW846 8100-S	
TPH-Diesel		1010	1000		1	0.900%	(-20.89) - (36.49)	SW846 8015B-S	
TPH-Diesel		1010	1000		1	0.900%	(-21.56) - (35.87)	SW846 8015B-S	
TPH-Diesel		995	1000		1	-0.500%	(-21.56) - (35.87)	SW846 8015B-S	
Lab Control Spike									
Benzene		0.996	0.00	1.00	1	99.60%	(80.28) - (127.0)	SW846 8021B-S	
Ethylbenzene		1.01	0.00	1.00	1	100.8 %	(82.29) - (129.3)	SW846 8021B-S	
MTBE		0.993	0.00	1.00	1	99.3 %	(75.40) - (133.8)	SW846 8021B-S	
Naphthalene		0.910	0.00	1.00	1	91.0 %	(30.08) - (147.3)	SW846 8021B-S	
Toluene		1.03	0.00	1.00	1	102.8 %	(81.91) - (133.5)	SW846 8021B-S	
Xylenes(o,m,p)		3.09	0.00	3.00	1	102.9 %	(82.50) - (134.0)	SW846 8021B-S	
TPH Gas		94.8	0.00	100	1	94.8 %	(69.73) - (112.5)	SW846 8015B-S	
Naphthalene-soc		1.34	0.00	2.50	1	53.6 %	(41.60) - (100.2)	SW846 8100-S	
TPH-Diesel		159	0.00	200	1	79.7 %	(68.27) - (102.3)	SW846 8015B-S	
Lab Reagent Blank									
Benzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S	
Ethylbenzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S	
MTBE		0.026	0.00		1	0.0255	(-0.0141) - (0.0932)	SW846 8021B-S	
Naphthalene		0.00	0.00		1	0	(-0.0509) - (0.0654)	SW846 8021B-S	
Toluene		0.00	0.00		1	0	(-0.0310) - (0.0419)	SW846 8021B-S	
Xylenes(o,m,p)		0.00	0.00		1	0	(-0.0698) - (0.1525)	SW846 8021B-S	
TPH Gas		1.79	0.00		1	1.79476	(-1.413) - (2.597)	SW846 8015B-S	
Naphthalene-soc		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8100-S	
TPH-Diesel		0.00	0.00		1	0	(-6.943) - (9.491)	SW846 8015B-S	

Approved By: 

Approved On: 07/31/2025 04:23 PM

AMERICAN ENGINEERING TESTING, INC.

☐ St. Paul Office
550 Cleveland Ave. N.
St. Paul, MN 55114
651-659-9001
651-659-1379 (fax)

☒ OTHER Rapid City Office

ADDRESS: 1745 Samco Rd
Rapid City, SD

PHONE: 605-388-0029

16285

PAGE 1 OF 1

AET PROJECT NUMBER P-0043683

PROJECT NAME/LOCATION Flying J UST System Removal

AET PROJECT MANAGER Jeremy Huot

SEND REPORT TO Jeremy Huot

Jeremy Huot
SAMPLED BY (PRINT)

SAMPLER SIGNATURE

REQUESTED TURNAROUND TIME: ☒ NORMAL ☐ RUSH

DATE NEEDED BY:

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	MeOH	HCL	H_2SO_4	HNO_3	FIELD FILTERED Y/N	ANALYSIS: TPH-G, BTEX, MTBE	TPH-D, Naphthalene	REMARKS
1	T-1	7/2/25	8:50	Soil	1	X					N		X	20250707541
2	T-2		9:00										X	542
3	T-3		9:05										X	543
4	T-4		9:15										X	544
5	T-5		9:30									X	X	545
6	T-6		9:40									X	X	546
7	T-7		9:45									X	X	547
8	Basin 1		10:45									X	X	548
9	Basin 2		11:00									X	X	549

NOTE: 5.9°C hand delivered
good, blue ice

ITEM NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
1-9	Huot / AET		7/7/25	1015

MIDCONTINENT TESTING LABORATORIES

SAMPLE RECEIPT CHECKLIST

Company Name: AET

Date/Time Received: 07/07/25 (Date) / 1015 (Time)

Project: P-0043683

Received by: SAC

Lab Number(s): 20250707541-549

Carrier Name: Hand Delivered

UNPACKING

Yes	No		Initials
☑	☐	1. Shipping container in good condition?	IGM
☑	☐	2. Custody seals present on shipping container? Condition: Intact ☐ Broken ☐	
☑	☐	3. Ice / Blue Ice (circle one) present in shipping container? Container(s) Temp. 1. 5.9 °C 2. _____ 3. _____ 4. _____	
☐	☑	4. Bottles broken and/or leaking? (Photograph broken bottles.)	
☐	☑	5. Custody seals on sample bottles? Condition: Intact ☐ Broken ☐	

LABELING

Yes	No		Initials
☑	☐	6. Chain of custody Present?	IGM
☑	☐	7. Chain of custody includes signatures, dates, and times when relinquished and received?	
☑	☐	8. Chain of custody agrees with bottle count?	
☑	☐	9. Chain of custody agrees with labels?	
☑	☐	10. Samples received within holding times?	
☑	☐	11. Samples in proper container?	
☑	☐	12. Sufficient sample volume for indicated tests?	

PRESERVATIVE

Yes	No		Initials	Yes	No		Initials
☐	☐	13. Metals bottle(s) pH < 2?		☐	☐	17. TOC bottle(s) pH < 2?	
☐	☐	14. Nutrient bottle(s) pH < 2?		☐	☐	18. Oil & Grease bottle(s) pH < 2?	
☐	☐	15. Cyanide bottle(s) pH > 12?		☐	☐	19. Volatiles pH < 2?	
☐	☐	16. Sulfide bottle(s) pH > 9?					

COMMENTS:

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	SW-1
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	07/08/25 at 10:35 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250709541
Received:	07/09/25 at 09:25 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date	
Volatile								
Benzene	< 0.050	mg/kg	1	0.018	0.050	SW846 8021B-S	SAC	07/16/25
Ethylbenzene	< 0.100	mg/kg	1	0.016	0.100	SW846 8021B-S	SAC	07/16/25
Methyl tertiary-Butyl Ether	< 0.100	mg/kg	1	0.023	0.100	SW846 8021B-S	SAC	07/16/25
Naphthalene	< 0.200	mg/kg	1	0.025	0.200	SW846 8021B-S	SAC	07/16/25
Toluene	< 0.100	mg/kg	1	0.015	0.100	SW846 8021B-S	SAC	07/16/25
Xylenes(o,m,p)	0.205	mg/kg	1	0.060	0.200	SW846 8021B-S	SAC	07/16/25
Total Volatile Hydrocarbons								
TPH as Gasoline	11.1	mg/kg	1	0.689	10.0	SW846 8015B-S	SAC	07/16/25
Semi-Volatile								
TPH Diesel	79.8	mg/kg	1	1.30	10.0	SW846 8015B-S	SAC	07/22/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date	
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	89.0 %	(64.34) - (122.0)	1	SW846 8021B QC	SAC	07/16/25
Surrogate Recovery-SV						
Ortho-Terphenyl	107.1 %	(-10.05) - (205.4)	1	SW846 8015-S QC	SAC	07/22/25
	- Result is within QC guidelines of 70 - 130%					

Report Approved By:

Report Approved On: 8/1/2025 11:36:28 AM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: SW-2
Project Name: Flying J UST System Removal
Project Number: P-0043683
Sampled: 07/08/25 at 10:40 AM
by Jeremy Huot
Sample Matrix: Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#: 20250709542
Received: 07/09/25 at 09:25 AM
by Shela Carpenter
Account: W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	< 0.050	mg/kg	1	0.018	0.050	SW846 8021B-S	SAC	07/16/25
Ethylbenzene	< 0.100	mg/kg	1	0.016	0.100	SW846 8021B-S	SAC	07/16/25
Methyl tertiary-Butyl Ether	< 0.100	mg/kg	1	0.023	0.100	SW846 8021B-S	SAC	07/16/25
Naphthalene	< 0.200	mg/kg	1	0.025	0.200	SW846 8021B-S	SAC	07/16/25
Toluene	< 0.100	mg/kg	1	0.015	0.100	SW846 8021B-S	SAC	07/16/25
Xylenes(o,m,p)	< 0.200	mg/kg	1	0.060	0.200	SW846 8021B-S	SAC	07/16/25
Total Volatile Hydrocarbons								
TPH as Gasoline	< 10.0	mg/kg	1	0.689	10.0	SW846 8015B-S	SAC	07/16/25
Semi-Volatile								
TPH Diesel	32.2	mg/kg	1	1.30	10.0	SW846 8015B-S	SAC	07/24/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	89.6 %	(64.34) - (122.0)	1	SW846 8021B QC	SAC	07/16/25
Surrogate Recovery-SV						
Ortho-Terphenyl	97.9 %	(-8.559) - (201.2)	1	SW846 8015-S QC	SAC	07/24/25
	- Result is within QC guidelines of 70 - 130%					

Report Approved By:



Report Approved On: 8/1/2025 11:36:28 AM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	SW-3
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	07/08/25 at 10:50 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250709543
Received:	07/09/25 at 09:25 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	< 0.200	mg/kg	4	0.071	0.200	SW846 8021B-S	SAC	07/17/25
Ethylbenzene	0.463	mg/kg	4	0.064	0.400	SW846 8021B-S	SAC	07/17/25
Methyl tertiary-Butyl Ether	< 0.400	mg/kg	4	0.093	0.400	SW846 8021B-S	SAC	07/17/25
Naphthalene	8.14	mg/kg	4	0.099	0.800	SW846 8021B-S	SAC	07/17/25
Toluene	< 0.400	mg/kg	4	0.060	0.400	SW846 8021B-S	SAC	07/17/25
Xylenes(o,m,p)	1.89	mg/kg	4	0.240	0.800	SW846 8021B-S	SAC	07/17/25
Total Volatile Hydrocarbons								
TPH as Gasoline	449	mg/kg	4	2.76	40.0	SW846 8015B-S	SAC	07/17/25
Semi-Volatile								
TPH Diesel	4700	mg/kg	20	26.0	200	SW846 8015B-S	SAC	07/23/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	111.3 %	(66.36) - (121.1)	4	SW846 8021B QC	SAC	07/17/25
Surrogate Recovery-SV						
Ortho-Terphenyl	D-Surrogate not calculated due to dilution.					

Report Approved By:



Report Approved On: 8/1/2025 11:36:28 AM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: SW-4
Project Name: Flying J UST System Removal
Project Number: P-0043683
Sampled: 07/08/25 at 10:55 AM
by Jeremy Huot
Sample Matrix: Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#: 20250709544
Received: 07/09/25 at 09:25 AM
by Shela Carpenter
Account: W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	15.7	mg/kg	100	1.77	5.00	SW846 8021B-S	SAC	07/17/25
Ethylbenzene	107	mg/kg	100	1.61	10.0	SW846 8021B-S	SAC	07/17/25
Methyl tertiary-Butyl Ether	< 10.0	mg/kg	100	2.31	10.0	SW846 8021B-S	SAC	07/17/25
Naphthalene	29.5	mg/kg	100	2.49	20.0	SW846 8021B-S	SAC	07/17/25
Toluene	239	mg/kg	100	1.49	10.0	SW846 8021B-S	SAC	07/17/25
Xylenes(o,m,p)	568	mg/kg	100	6.00	20.0	SW846 8021B-S	SAC	07/17/25
Total Volatile Hydrocarbons								
TPH as Gasoline	6400	mg/kg	100	68.9	1000	SW846 8015B-S	SAC	07/17/25
Semi-Volatile								
TPH Diesel	5560	mg/kg	10	13.0	100	SW846 8015B-S	SAC	07/23/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	102.7 %	(66.36) - (121.1)	100	SW846 8021B QC	SAC	07/17/25
Surrogate Recovery-SV						
Ortho-Terphenyl	D-Surrogate not calculated due to dilution.					

Report Approved By:



Report Approved On: 8/1/2025 11:36:28 AM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	Basin 3
Project Name:	Flying J UST System Removal
Project Number:	P-0043683
Sampled:	07/08/25 at 11:50 AM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250709545
Received:	07/09/25 at 09:25 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Volatile								
Benzene	0.054	mg/kg	1	0.018	0.050	SW846 8021B-S	SAC	07/17/25
Ethylbenzene	0.115	mg/kg	1	0.016	0.100	SW846 8021B-S	SAC	07/17/25
Methyl tertiary-Butyl Ether	< 0.100	mg/kg	1	0.023	0.100	SW846 8021B-S	SAC	07/17/25
Naphthalene	0.690	mg/kg	1	0.025	0.200	SW846 8021B-S	SAC	07/17/25
Toluene	< 0.100	mg/kg	1	0.015	0.100	SW846 8021B-S	SAC	07/17/25
Xylenes(o,m,p)	0.798	mg/kg	1	0.060	0.200	SW846 8021B-S	SAC	07/17/25
Total Volatile Hydrocarbons								
TPH as Gasoline	68.0	mg/kg	1	0.689	10.0	SW846 8015B-S	SAC	07/17/25
Semi-Volatile								
TPH Diesel	186	mg/kg	1	1.30	10.0	SW846 8015B-S	SAC	07/22/25
Extraction								
Extraction TPH/SOC	1.00	none	1			SW846 3550	SAC	07/15/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-Volatile						
4-Bromofluorobenzene	107.3 %	(66.36) - (121.1)	1	SW846 8021B QC	SAC	07/17/25
Surrogate Recovery-SV						
Ortho-Terphenyl	96.0 %	(-10.05) - (205.4)	1	SW846 8015-S QC	SAC	07/22/25

Report Approved By:



Report Approved On: 8/1/2025 11:36:28 AM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Lab Numbers: 20250709541 - 20250709545

QC Sample Report

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method
Spike								
Benzene	0724543	0.837	< 0.050	1.00	1	83.7 %	(67.57) - (115.7)	SW846 8021B-S
Ethylbenzene	0724543	0.846	< 0.100	1.00	1	84.6 %	(81.27) - (111.2)	SW846 8021B-S
MTBE	0724543	0.811	< 0.100	1.00	1	81.1 %	(64.53) - (111.1)	SW846 8021B-S
Toluene	0724543	0.853	< 0.100	1.00	1	85.3 %	(74.04) - (114.3)	SW846 8021B-S
Xylenes(o,m,p)	0724543	2.57	< 0.200	3.00	1	85.6 %	(74.65) - (118.0)	SW846 8021B-S
TPH Gas	0724544	85.2	< 10.0	100	1	85.2 %	(59.50) - (119.8)	SW846 8015B-S
TPH-Diesel	0709541	228	79.8	200	1	74.1 %	(56.63) - (104.8)	SW846 8015B-S
Matrix Spike Duplicate								
Benzene	0724543	0.819	0.837		1	-2.17%	(-15.10) - (11.79)	SW846 8021B-S
Ethylbenzene	0724543	0.826	0.846		1	-2.39%	(-18.45) - (14.28)	SW846 8021B-S
MTBE	0724543	0.794	0.811		1	-2.12%	(-12.38) - (9.964)	SW846 8021B-S
Naphthalene	0724543	0.776	0.694		1	11.2 %	(-31.43) - (27.99)	SW846 8021B-S
Toluene	0724543	0.835	0.853		1	-2.13%	(-15.91) - (12.61)	SW846 8021B-S
Xylenes(o,m,p)	0724543	2.53	2.57		1	-1.37%	(-15.94) - (13.45)	SW846 8021B-S
TPH Gas	0724544	82.5	85.2		1	-3.14%	(-17.80) - (14.21)	SW846 8015B-S
TPH-Diesel	0709541	213	228		1	-6.80%	(-26.11) - (25.44)	SW846 8015B-S
Initial Calibration Verification								
TPH-Diesel		975	1000		1	-2.50%	(-27.24) - (28.17)	SW846 8015B-S
Continuing Calibration Verification								
Benzene		22.7	25.0		1	-9.22%	(-16.52) - (3.533)	SW846 8021B
Benzene		22.0	25.0		1	-11.9 %	(-17.90) - (3.915)	SW846 8021B
Benzene		22.2	25.0		1	-11.2 %	(-18.63) - (3.948)	SW846 8021B
Ethylbenzene		22.5	25.0		1	-10.0 %	(-15.72) - (1.311)	SW846 8021B
Ethylbenzene		21.8	25.0		1	-12.7 %	(-17.27) - (1.531)	SW846 8021B
Ethylbenzene		22.0	25.0		1	-12.1 %	(-17.90) - (1.355)	SW846 8021B
MTBE		22.7	25.0		1	-9.16%	(-20.17) - (5.254)	SW846 8021B
MTBE		21.9	25.0		1	-12.6 %	(-20.71) - (4.377)	SW846 8021B
MTBE		21.9	25.0		1	-12.4 %	(-21.26) - (4.234)	SW846 8021B
Naphthalene		25.8	25.0		1	3.38%	(-11.31) - (25.99)	SW846 8021B
Naphthalene		25.6	25.0		1	2.37%	(-17.09) - (28.78)	SW846 8021B
Naphthalene		25.0	25.0		1	-0.052%	(-17.38) - (28.27)	SW846 8021B
Toluene		22.9	25.0		1	-8.57%	(-14.16) - (3.092)	SW846 8021B
Toluene		22.3	25.0		1	-10.7 %	(-15.84) - (3.487)	SW846 8021B
Toluene		22.3	25.0		1	-10.6 %	(-16.40) - (3.282)	SW846 8021B
Xylenes(o,m,p)		66.6	75.0		1	-11.2 %	(-14.18) - (1.978)	SW846 8021B

Lab Numbers: **20250709541 - 20250709545**

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method	
Continuing Calibration Verification									
Xylenes(o,m,p)		64.5	75.0		1	-14.1 %	(-16.24) - (2.435)	SW846 8021B	
Xylenes(o,m,p)		63.5	75.0		1	-15.3 %	(-17.57) - (2.686)	SW846 8021B	
TPH Gas		1690	2000		1	-15.5 %	(-19.27) - (-3.034)	SW846 8015B	
TPH Gas		1770	2000		1	-11.7 %	(-18.99) - (-4.783)	SW846 8015B	
TPH Gas		1750	2000		1	-12.7 %	(-18.99) - (-4.783)	SW846 8015B	
TPH-Diesel		1010	1000		1	0.900%	(-20.89) - (36.49)	SW846 8015B-S	
TPH-Diesel		1010	1000		1	0.900%	(-21.56) - (35.87)	SW846 8015B-S	
TPH-Diesel		995	1000		1	-0.500%	(-21.56) - (35.87)	SW846 8015B-S	
Lab Control Spike									
Benzene		0.785	0.00	1.00	1	78.5 %	(80.08) - (126.2)	SW846 8021B-S	X
- Result is within QC guidelines of 70 - 130%									
Ethylbenzene		0.732	0.00	1.00	1	73.2 %	(82.29) - (127.9)	SW846 8021B-S	X
- Result is within QC guidelines of 70 - 130%									
MTBE		0.677	0.00	1.00	1	67.7 %	(75.29) - (132.4)	SW846 8021B-S	X
- Result indicates low sample bias.									
Naphthalene		0.725	0.00	1.00	1	72.5 %	(37.76) - (135.2)	SW846 8021B-S	
Toluene		0.778	0.00	1.00	1	77.8 %	(81.50) - (132.9)	SW846 8021B-S	X
- Result is within QC guidelines of 70 - 130%									
Xylenes(o,m,p)		2.12	0.00	3.00	1	70.8 %	(82.01) - (133.4)	SW846 8021B-S	X
- Result is within QC guidelines of 70 - 130%									
TPH Gas		91.3	0.00	100	1	91.3 %	(73.74) - (110.4)	SW846 8015B-S	
TPH-Diesel		159	0.00	200	1	79.7 %	(68.27) - (102.3)	SW846 8015B-S	
Lab Reagent Blank									
Benzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S	
Ethylbenzene		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8021B-S	
MTBE		0.00	0.00		1	0	(-0.0135) - (0.0930)	SW846 8021B-S	
Naphthalene		0.00	0.00		1	0	(-0.0481) - (0.0586)	SW846 8021B-S	
Toluene		0.00	0.00		1	0	(-0.0310) - (0.0419)	SW846 8021B-S	
Xylenes(o,m,p)		0.00	0.00		1	0	(-0.0752) - (0.1517)	SW846 8021B-S	
TPH Gas		1.75	0.00		1	1.74817	(-1.431) - (2.794)	SW846 8015B-S	
TPH-Diesel		0.00	0.00		1	0	(-6.943) - (9.491)	SW846 8015B-S	

Approved By: 

Approved On: 08/01/2025 11:36 AM

AMERICAN ENGINEERING TESTING, INC.

☐ St. Paul Office
550 Cleveland Ave. N.
St. Paul, MN 55114
651-659-9001
651-659-1379 (fax)

☒ OTHER Rapid City Office

ADDRESS: 1745 Samco Rd
Rapid City, SD

PHONE: 605-388-0029

16286

PAGE 1 OF 1

AET PROJECT NUMBER P-0043683

PROJECT NAME/LOCATION Flying J UST System Removal

AET PROJECT MANAGER Jeremy Huot

SEND REPORT TO J. Huot

Jeremy Huot
SAMPLED BY (PRINT)

SAMPLER SIGNATURE

REQUESTED TURNAROUND TIME: ☒ NORMAL ☐ RUSH

DATE NEEDED BY:

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	MeOH	HCL	H_2SO_4	HNO_3	FIELD FILTERED Y/N	ANALYSIS: TPH-G, BTEX, MTBE	TPH-D, Naphthalene	REMARKS
1	SW-1	7/8/25	10:35	Soil	1	X					N	X	X	20250709 541
2	SW-2		10:40									X	X	542
3	SW-3		10:50									X	X	543
4	SW-4		10:55									X	X	544
5	Basin 3	↓	11:50	↓	↓	↓					↓	X	X	545

NOTE: ~~to~~ 1.1 °C
Blue ice

ITEM NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
1-5	AET		7/9/25	9:25

MIDCONTINENT TESTING LABORATORIES

SAMPLE RECEIPT CHECKLIST

Company Name: A E T

Date/Time Received: 07/09/25 (Date) / 0925 (Time)

Project: P-0043683

Received by: SAC

Lab Number(s): 20250709541 - 545

Carrier Name: Hand Delivered

UNPACKING

Yes	No		Initials
☑	☐	1. Shipping container in good condition?	KM
☑	☐	2. Custody seals present on shipping container? Condition: Intact ☐ Broken ☐	
☑	☐	3. Ice / (Blue Ice) (circle one) present in shipping container? Container(s) Temp. 1. 1.1°C 2. _____ 3. _____ 4. _____	
☒	☑	4. Bottles broken and/or leaking? (Photograph broken bottles.)	
☐	☑	5. Custody seals on sample bottles? Condition: Intact ☐ Broken ☐ (Lab Sup 9/10/25)	

LABELING

Yes	No		Initials
☑	☐	6. Chain of custody Present?	KM
☑	☐	7. Chain of custody includes signatures, dates, and times when relinquished and received?	
☑	☐	8. Chain of custody agrees with bottle count?	
☑	☐	9. Chain of custody agrees with labels?	
☑	☐	10. Samples received within holding times?	
☑	☐	11. Samples in proper container?	
☑	☐	12. Sufficient sample volume for indicated tests?	

PRESERVATIVE

Yes	No		Initials	Yes	No		Initials
☐	☐	13. Metals bottle(s) pH < 2?		☐	☐	17. TOC bottle(s) pH < 2?	
☐	☐	14. Nutrient bottle(s) pH < 2?		☐	☐	18. Oil & Grease bottle(s) pH < 2?	
☐	☐	15. Cyanide bottle(s) pH > 12?		☐	☐	19. Volatiles pH < 2?	
☐	☐	16. Sulfide bottle(s) pH > 9?					

COMMENTS:

APPENDIX D
Photographs

PHOTOGRAPHS



Photo 1:	**View of petroleum UST Basin area after concrete surfacing had been removed.**
Photo 2:	**View of the former pump island locations at Canopy 1 (see Figure 2).**



PHOTOGRAPHS

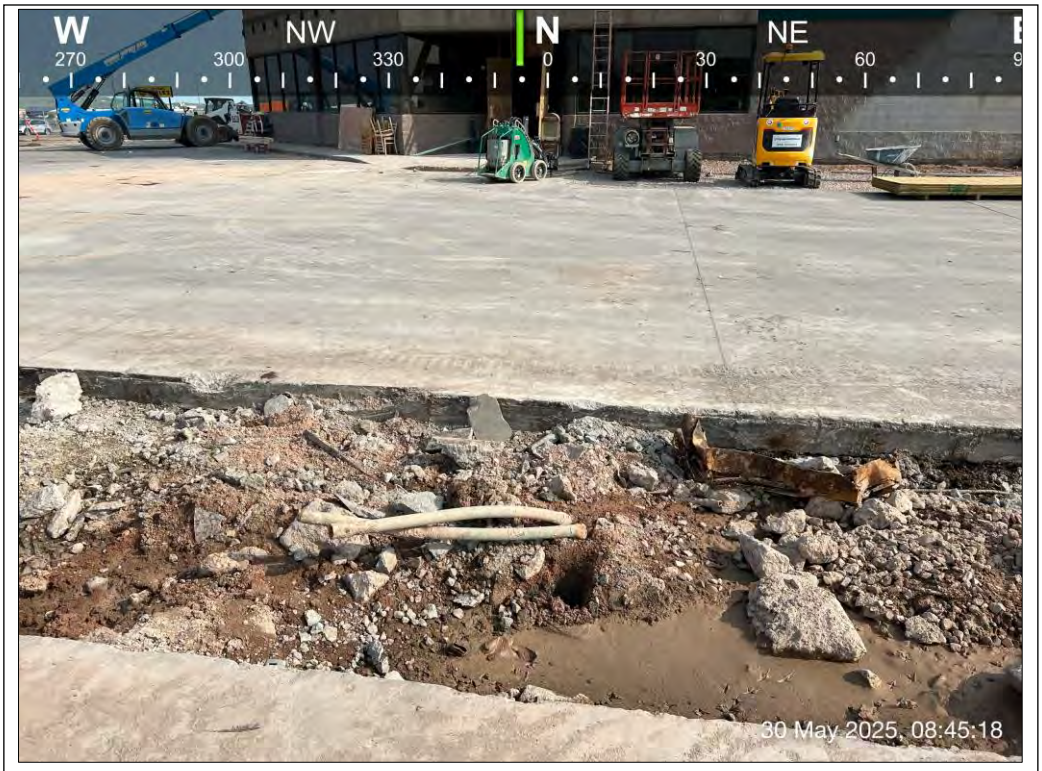


Photo 3:	**View at former location of pump island locations at Canopy 2 (see Figure 2).**
Photo 4:	**View at former location of pump island locations at Canopy 2 (see Figure 2).**



PHOTOGRAPHS

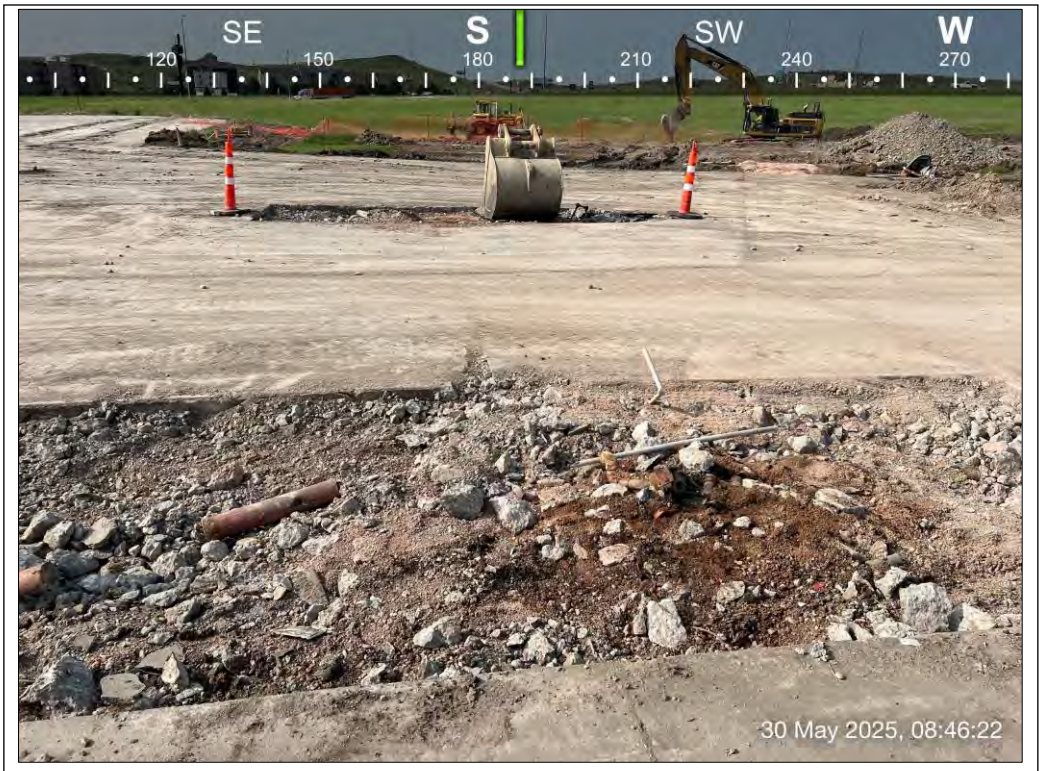
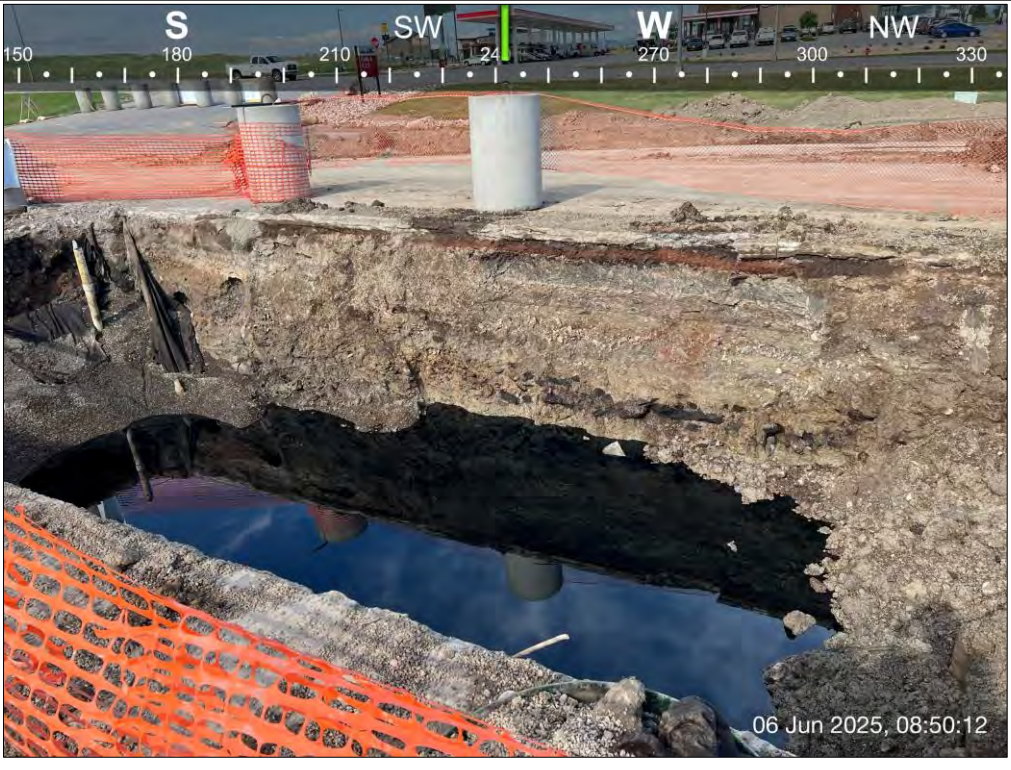


Photo 5:	**View of the former pump island locations at Canopy 3 (see Figure 2).**
Photo 6:	**View of DEF UST basin with free product visible on the perched groundwater.**



PHOTOGRAPHS



Photo 7:	**View of DEF UST basin after product absorbents had been placed.**
Photo 8:	**View of DEF UST basin after product and absorbents had been removed.**



PHOTOGRAPHS



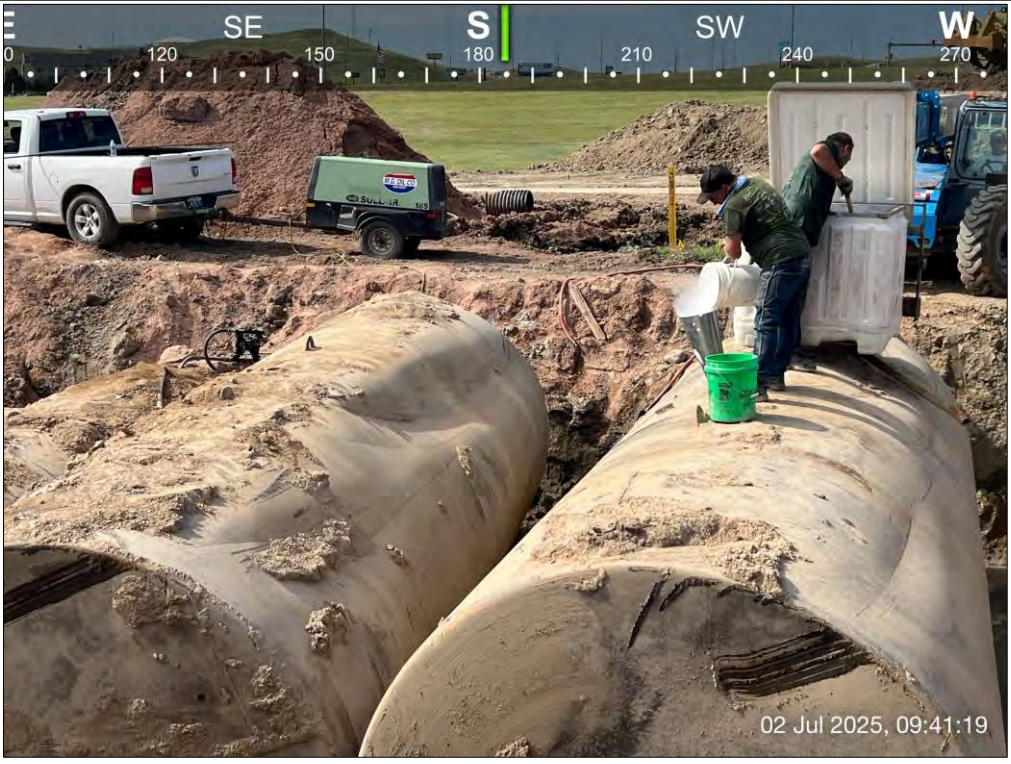
Photo 9:	**View of backfilling activities at the DEF UST basin.**
Photo 10:	**View of DEF UST basin after placement of gravel to just above the perched groundwater level.**



PHOTOGRAPHS



Photo 11:	**View of petroleum UST basin after the 4,000-gallon and the 20,000-gallon gasoline USTs had been removed.**
Photo 12:	**View of MG Oil personnel inerting the gasoline USTs using dry ice.**



PHOTOGRAPHS



Photo 13:	**View of the 4,000-gallon gasoline UST after removal.**
Photo 14:	**View of the 20,000-gallon gasoline UST after removal.**



PHOTOGRAPHS

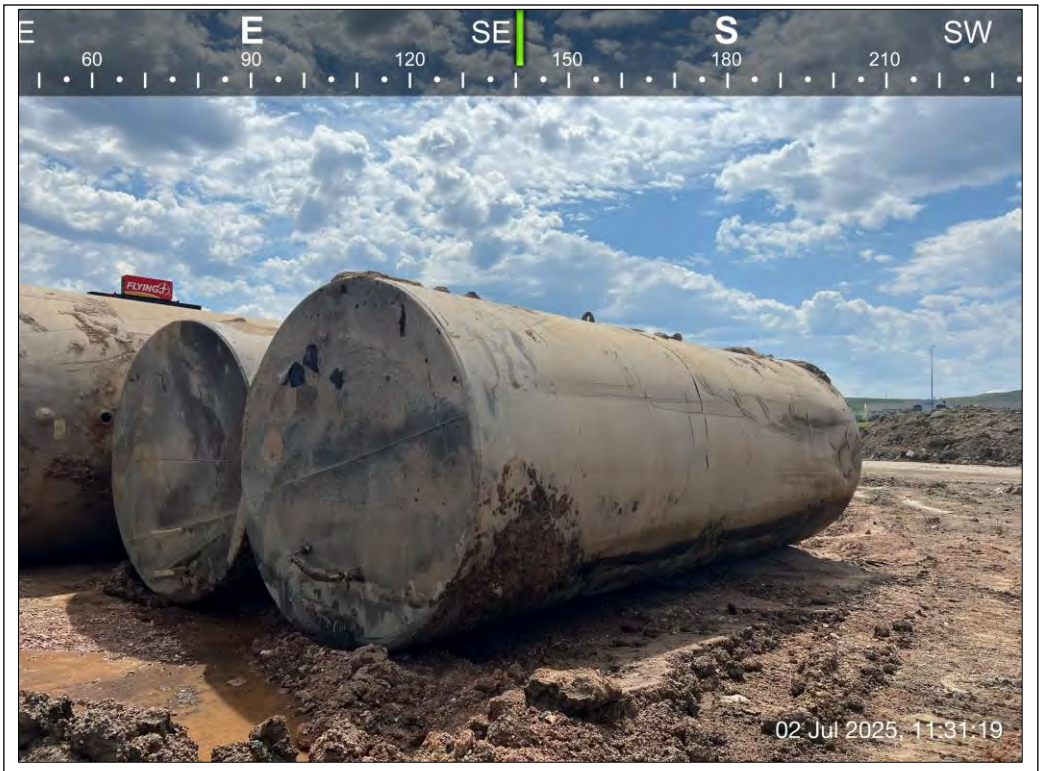


Photo 15:	**View of the two 12,000-gallon gasoline USTs after removal.**
Photo 16:	**View of the petroleum UST basin after removal of the four gasoline USTs.**



PHOTOGRAPHS



Photo 17:	**View of the four diesel USTs prior to removal from the basin.**
Photo 18:	**Vew of the eastern-most diesel UST prior to removal from the basin – product visible on the perched groundwater near the base of the UST.**



PHOTOGRAPHS



Photo 19:	**View of diesel UST 8 after removal from the UST Basin.**
Photo 20:	**View of diesel UST 7 after removal from the UST Basin.**



PHOTOGRAPHS

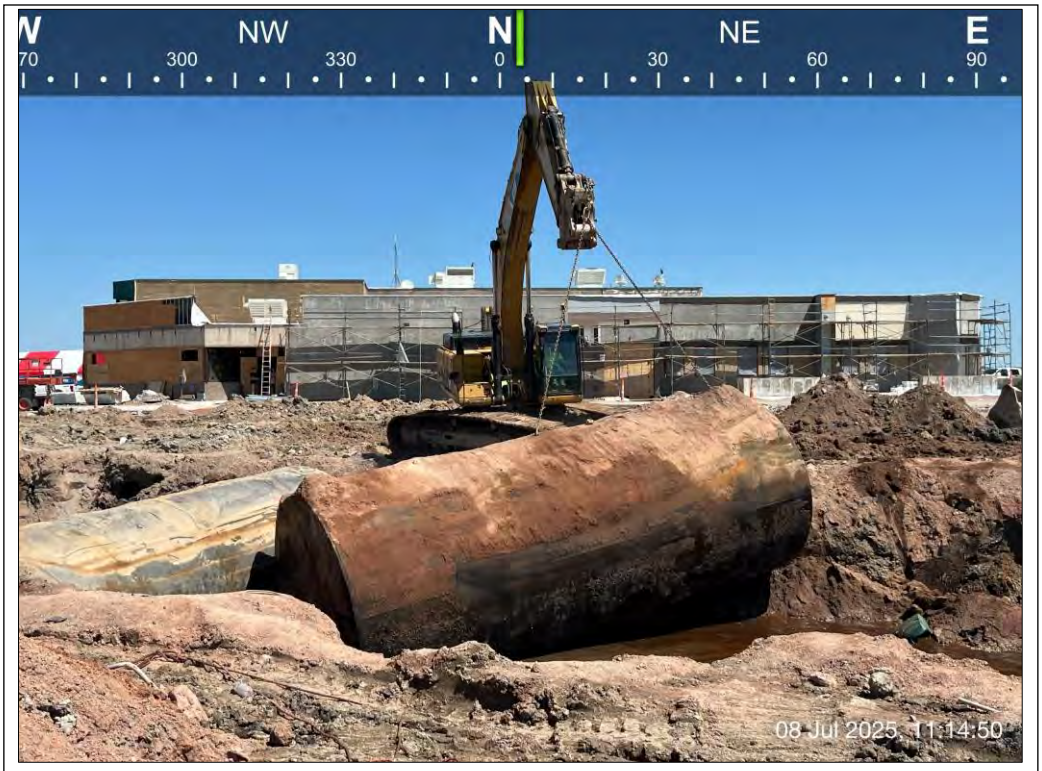


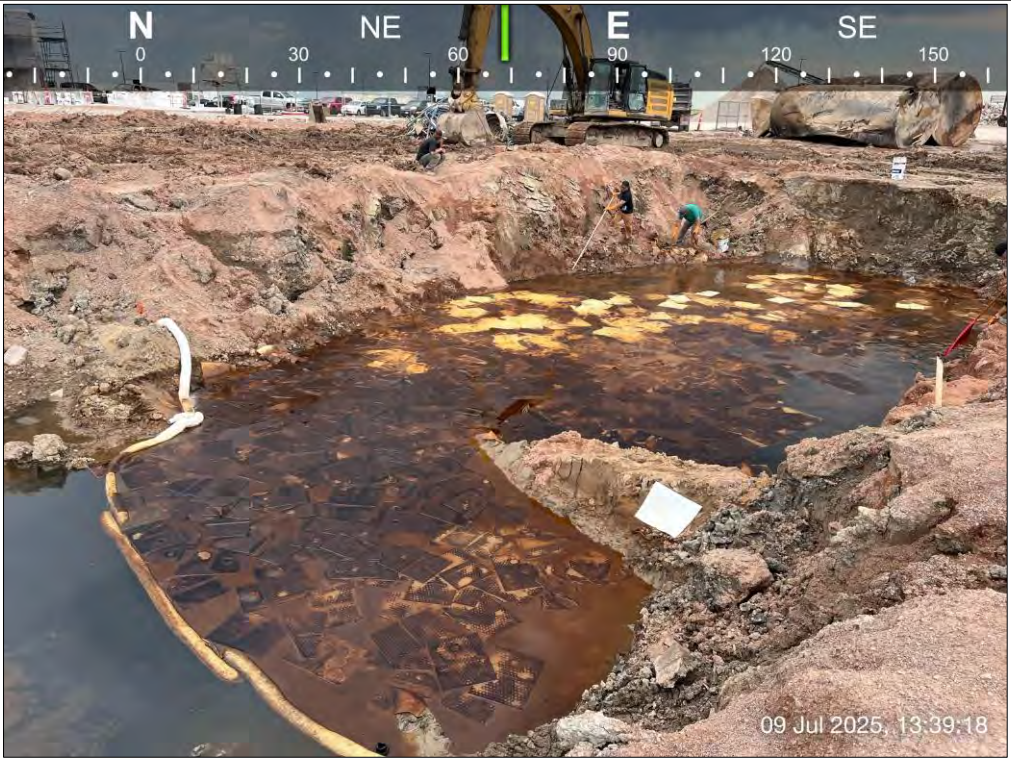
Photo 21:	**View of diesel UST 6 during removal from the UST Basin.**
Photo 22:	**View of diesel UST 5 after removal from the UST Basin.**



PHOTOGRAPHS



Photo 23:	**View of petroleum UST basin after all USTs had been removed. Product visible on the surface of the perched groundwater.**
Photo 24:	**View of petroleum UST basin after product absorbent materials had been placed and given time to saturate.**



PHOTOGRAPHS



Photo 25:	**View during the removal of the saturated product absorbent material from within the petroleum UST basin.**
Photo 26:	**View during the removal of the saturated product absorbent material from within the petroleum UST basin.**



PHOTOGRAPHS

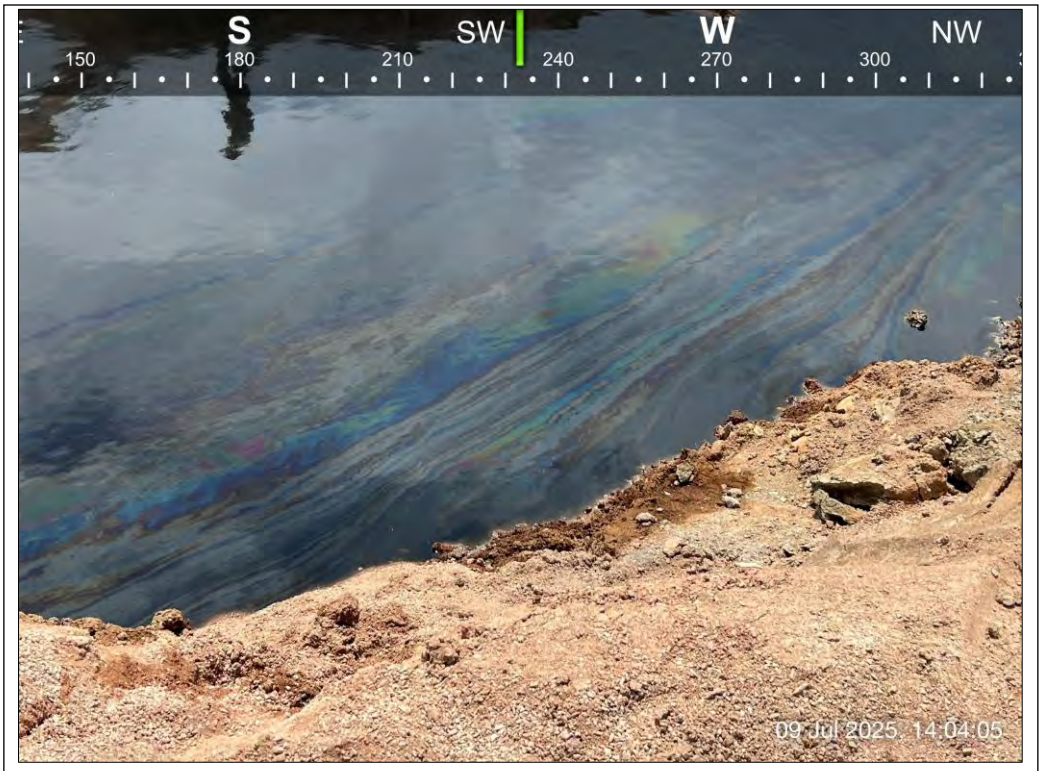


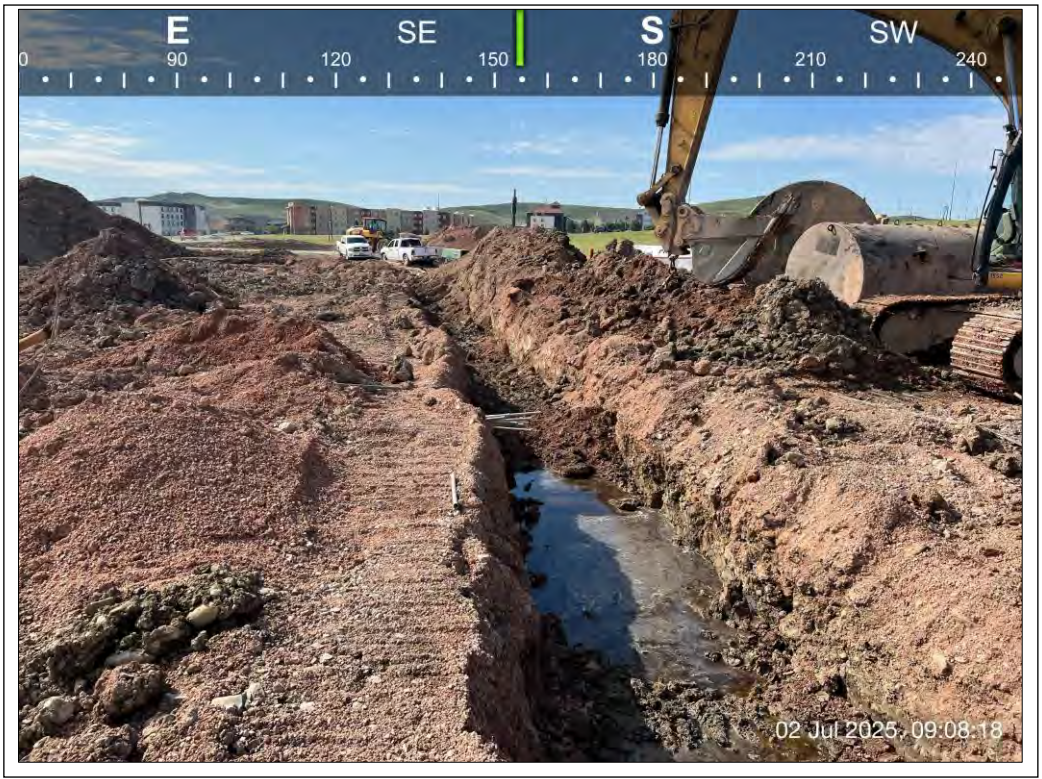
Photo 27:	**View of hydrocarbon sheen still remaining on the surface of the perched water within the petroleum UST basin after the absorbent materials had been removed.**
Photo 28:	**View of backfilling activities within the petroleum UST basin after the absorbent materials had been removed.**



PHOTOGRAPHS



Photo 29:	**View of representative soil staining throughout the distribution piping trenches at the site.**
Photo 30:	**View of distribution piping trench at the site.**



PHOTOGRAPHS



Photo 31:	**View of distribution piping at the site.**
Photo 32:	**View of distribution piping at the site.**



APPENDIX E
Landfill Disposal Tickets

City of Rapid City Finance Office

300 6th Street
Rapid City, SD 57701
(605) 394-4143
www.rcgov.org

AUG 11 2025

INVOICE

REMIT PORTION

Invoice Date	08/08/2025
Invoice Number	2508050
Customer Number	70034565
Amount Paid	$0.00
Due Date	**08/29/2025**
Invoice Total Due	**$54,484.09**

70034565
MG OIL COMPANY
PO BOX 1006
RAPID CITY, SD 57709-1006

Please put Invoice Number on your check.
Make Checks Payable to: **City of Rapid City**

00180182025502508050800054484092

DETACH AND RETURN THE PORTION ABOVE WITH YOUR PAYMENT

City of Rapid City Finance Office

300 6th Street
Rapid City, SD 57701
(605) 394-4143
www.rcgov.org

INVOICE

Customer Copy

CUSTOMER	INVOICE DATE	INVOICE NUMBER	AMOUNT PAID	DUE DATE	INVOICE TOTAL DUE
MG OIL COMPANY	08/08/2025	2508050	$0.00	**08/29/2025**	**$54,484.09**

DESCRIPTION	QUANTITY	PRICE	UOM	ORIGINAL BILL	ADJUSTED	PAID	AMOUNT DUE
Ticket#: 10241279 Material ID:007 Truck ID:HC33343 Time In:Jul 24 2025 1:32PM	12	$30.00	EACH	$358.20	$0.00	$0.00	$358.20
Ticket#: 10241314 Material ID:007 Truck ID:HC3343 Time In:Jul 24 2025 2:10PM	13	$30.00	EACH	$385.80	$0.00	$0.00	$385.80
Ticket#: 10241328 Material ID:007 Truck ID:HC3341 Time In:Jul 24 2025 2:32PM	16	$30.00	EACH	$483.60	$0.00	$0.00	$483.60
Ticket#: 10241343 Material ID:007 Truck ID:HC3343 Time In:Jul 24 2025 2:50PM	12	$30.00	EACH	$362.70	$0.00	$0.00	$362.70
Ticket#: 10241374 Material ID:007 Truck ID:HC3341 Time In:Jul 24 2025 3:19PM	14	$30.00	EACH	$428.10	$0.00	$0.00	$428.10
Ticket#: 10241387 Material ID:007 Truck ID:HC3343 Time In:Jul 24 2025 3:34PM	10	$30.00	EACH	$302.10	$0.00	$0.00	$302.10
Ticket#: 10241552 Material ID:007 Truck ID:HC3343 Time In:Jul 25 2025 9:42AM	12	$30.00	EACH	$355.20	$0.00	$0.00	$355.20
Ticket#: 10241587 Material ID:007 Truck ID:HC3343 Time In:Jul 25 2025 10:25AM	14	$30.00	EACH	$429.60	$0.00	$0.00	$429.60
Ticket#: 10241676 Material ID:007 Truck ID:HC3343 Time In:Jul 25 2025 12:02PM	17	$30.00	EACH	$499.50	$0.00	$0.00	$499.50
Ticket#: 10241679 Material ID:007 Truck ID:HC3346 Time In:Jul 25 2025 12:08PM	13	$30.00	EACH	$400.50	$0.00	$0.00	$400.50
Ticket#: 10241691 Material ID:007 Truck ID:HC3341 Time In:Jul 25 2025 12:21PM	13	$30.00	EACH	$397.80	$0.00	$0.00	$397.80
Ticket#: 10241713 Material ID:007 Truck ID:HC3343 Time In:Jul 25 2025 12:50PM	12	$30.00	EACH	$367.50	$0.00	$0.00	$367.50
Ticket#: 10241722 Material ID:007 Truck ID:HC3346 Time In:Jul 25 2025 12:55PM	13	$30.00	EACH	$383.10	$0.00	$0.00	$383.10
Ticket#: 10241724 Material ID:007 Truck ID:HC3341 Time In:Jul 25 2025 12:57PM	13	$30.00	EACH	$381.60	$0.00	$0.00	$381.60
Ticket#: 10241791 Material ID:007 Truck ID:HC3343 Time In:Jul 25 2025 1:54PM	10	$30.00	EACH	$303.60	$0.00	$0.00	$303.60
Ticket#: 10241799 Material ID:007 Truck ID:HC3346 Time In:Jul 25 2025 2:01PM	12	$30.00	EACH	$359.70	$0.00	$0.00	$359.70
Ticket#: 10241859 Material ID:007 Truck ID:HC3346 Time In:Jul 25 2025 2:50PM	11	$30.00	EACH	$341.10	$0.00	$0.00	$341.10
Ticket#: 10241843 Material ID:007 Truck ID:HC3343 Time In:Jul 25 2025 2:51PM	13	$30.00	EACH	$387.00	$0.00	$0.00	$387.00
Ticket#: 10241881 Material ID:007 Truck ID:HC3343 Time In:Jul 25 2025 3:26PM	12	$30.00	EACH	$366.60	$0.00	$0.00	$366.60
Ticket#: 10243317 Material ID:007 Truck ID:HC3343 Time In:Jul 30 2025 10:27AM	13	$30.00	EACH	$401.10	$0.00	$0.00	$401.10
Ticket#: 10243323 Material ID:007 Truck ID:HC3346 Time In:Jul 30 2025 10:34AM	14	$30.00	EACH	$411.00	$0.00	$0.00	$411.00

INVOICE
Overflow Report

CUSTOMER	INVOICE DATE	INVOICE NUMBER	AMOUNT PAID	DUE DATE	INVOICE TOTAL DUE
MG OIL COMPANY	08/08/2025	2508050	$0.00	**08/29/2025**	**$54,484.09**

DESCRIPTION	QUANTITY	PRICE	UOM	ORIGINAL BILL	ADJUSTED	PAID	AMOUNT DUE
Ticket#: 10243360 Material ID:007 Truck ID:HC3346 Time In:Jul 30 2025 11:15AM	11	$30.00	EACH	$318.60	$0.00	$0.00	$318.60
Ticket#: 10243708 Material ID:007 Truck ID:HC3341 Time In:Jul 31 2025 9:54AM	14	$30.00	EACH	$405.60	$0.00	$0.00	$405.60
Ticket#: 10243709 Material ID:007 Truck ID:HC3344 Time In:Jul 31 2025 9:55AM	14	$30.00	EACH	$408.60	$0.00	$0.00	$408.60
Ticket#: 10243728 Material ID:007 Truck ID:HC3341 Time In:Jul 31 2025 10:30AM	12	$30.00	EACH	$351.60	$0.00	$0.00	$351.60
Ticket#: 10243732 Material ID:007 Truck ID:HC3344 Time In:Jul 31 2025 10:38AM	14	$30.00	EACH	$411.90	$0.00	$0.00	$411.90
Ticket#: 10243754 Material ID:007 Truck ID:HC3346 Time In:Jul 31 2025 11:06AM	16	$30.00	EACH	$474.30	$0.00	$0.00	$474.30
Ticket#: 10243758 Material ID:007 Truck ID:HC3341 Time In:Jul 31 2025 11:11AM	16	$30.00	EACH	$465.90	$0.00	$0.00	$465.90
Ticket#: 10243768 Material ID:007 Truck ID:HC3344 Time In:Jul 31 2025 11:19AM	16	$30.00	EACH	$471.00	$0.00	$0.00	$471.00
Ticket#: 10243788 Material ID:007 Truck ID:HC3346 Time In:Jul 31 2025 11:42AM	14	$30.00	EACH	$423.30	$0.00	$0.00	$423.30
Ticket#: 10243790 Material ID:007 Truck ID:HC3341 Time In:Jul 31 2025 11:46AM	15	$30.00	EACH	$440.40	$0.00	$0.00	$440.40
Ticket#: 10243800 Material ID:007 Truck ID:HC3344 Time In:Jul 31 2025 11:57AM	14	$30.00	EACH	$410.70	$0.00	$0.00	$410.70
Ticket#: 10243860 Material ID:007 Truck ID:HC3346 Time In:Jul 31 2025 1:19PM	15	$30.00	EACH	$449.10	$0.00	$0.00	$449.10
Ticket#: 10243868 Material ID:007 Truck ID:HC3344 Time In:Jul 31 2025 1:28PM	12	$30.00	EACH	$369.00	$0.00	$0.00	$369.00
Ticket#: 10243874 Material ID:007 Truck ID:HC3341 Time In:Jul 31 2025 1:33PM	12	$30.00	EACH	$363.00	$0.00	$0.00	$363.00
Ticket#: 10243888 Material ID:007 Truck ID:HC3346 Time In:Jul 31 2025 1:57PM	12	$30.00	EACH	$369.60	$0.00	$0.00	$369.60
Ticket#: 10243893 Material ID:007 Truck ID:HC3342 Time In:Jul 31 2025 2:05PM	16	$30.00	EACH	$473.40	$0.00	$0.00	$473.40
Ticket#: 10243896 Material ID:007 Truck ID:HC3344 Time In:Jul 31 2025 2:12PM	12	$30.00	EACH	$366.30	$0.00	$0.00	$366.30
Ticket#: 10243898 Material ID:007 Truck ID:HC3341 Time In:Jul 31 2025 2:13PM	12	$30.00	EACH	$368.40	$0.00	$0.00	$368.40
Ticket#: 10243910 Material ID:007 Truck ID:HC3346 Time In:Jul 31 2025 2:32PM	12	$30.00	EACH	$352.80	$0.00	$0.00	$352.80
Ticket#: 10243923 Material ID:007 Truck ID:HC3342 Time In:Jul 31 2025 2:46PM	14	$30.00	EACH	$428.70	$0.00	$0.00	$428.70
Ticket#: 10238578 Material ID:0071 Truck ID:3341 Time In:Jul 17 2025 1:49PM	11	$30.00	EACH	$338.40	$0.00	$0.00	$338.40
Ticket#: 10238573 Material ID:0071 Truck ID:3343 Time In:Jul 17 2025 1:50PM	11	$30.00	EACH	$335.70	$0.00	$0.00	$335.70
Ticket#: 10237930 Material ID:007 Truck ID:HC3346 Time In:Jul 17 2025 1:51PM	11	$30.00	EACH	$327.90	$0.00	$0.00	$327.90
Ticket#: 10237745 Material ID:007 Truck ID:HC3346 Time In:Jul 17 2025 1:52PM	11	$30.00	EACH	$325.20	$0.00	$0.00	$325.20
Ticket#: 10237833 Material ID:007 Truck ID:HC3346 Time In:Jul 17 2025 1:54PM	14	$30.00	EACH	$416.10	$0.00	$0.00	$416.10
Ticket#: 10237708 Material ID:007 Truck ID:HC3346 Time In:Jul 17 2025 1:54PM	13	$30.00	EACH	$393.00	$0.00	$0.00	$393.00
Ticket#: 10238615 Material ID:0071 Truck ID:HC3343 Time In:Jul 17 2025 1:55PM	14	$30.00	EACH	$410.70	$0.00	$0.00	$410.70
Ticket#: 10237802 Material ID:007 Truck ID:HC3346 Time In:Jul 17 2025 1:55PM	14	$30.00	EACH	$421.50	$0.00	$0.00	$421.50
Ticket#: 10238618 Material ID:0071 Truck ID:HC3341 Time In:Jul 17 2025 1:59PM	13	$30.00	EACH	$387.00	$0.00	$0.00	$387.00
Ticket#: 10238647 Material ID:0071 Truck ID:HC3343 Time In:Jul 17 2025 2:35PM	15	$30.00	EACH	$439.50	$0.00	$0.00	$439.50
Ticket#: 10238652 Material ID:0071 Truck ID:HC3341 Time In:Jul 17 2025 2:40PM	15	$30.00	EACH	$439.20	$0.00	$0.00	$439.20
Ticket#: 10238695 Material ID:007 Truck ID:HC3343 Time In:Jul 17 2025 3:34PM	15	$30.00	EACH	$446.10	$0.00	$0.00	$446.10
Ticket#: 10238696 Material ID:007 Truck ID:HC3341 Time In:Jul 17 2025 3:35PM	15	$30.00	EACH	$441.60	$0.00	$0.00	$441.60
Ticket#: 10238846 Material ID:007 Truck ID:CH3346 Time In:Jul 18 2025 10:13AM	12	$30.00	EACH	$354.30	$0.00	$0.00	$354.30

INVOICE
Overflow Report

CUSTOMER	INVOICE DATE	INVOICE NUMBER	AMOUNT PAID	DUE DATE	INVOICE TOTAL DUE
MG OIL COMPANY	08/08/2025	2508050	$0.00	**08/29/2025**	**$54,484.09**

DESCRIPTION	QUANTITY	PRICE	UOM	ORIGINAL BILL	ADJUSTED	PAID	AMOUNT DUE
Ticket#: 10238761 Material ID:007 Truck ID:HC3341 Time In:Jul 18 2025 10:19AM	14	$30.00	EACH	$406.50	$0.00	$0.00	$406.50
Ticket#: 10238783 Material ID:007 Truck ID:HC3341 Time In:Jul 18 2025 10:24AM	13	$30.00	EACH	$381.30	$0.00	$0.00	$381.30
Ticket#: 10238823 Material ID:007 Truck ID:HC3341 Time In:Jul 18 2025 10:26AM	13	$30.00	EACH	$378.00	$0.00	$0.00	$378.00
Ticket#: 10238860 Material ID:007 Truck ID:HC3341 Time In:Jul 18 2025 10:33AM	13	$30.00	EACH	$404.70	$0.00	$0.00	$404.70
Ticket#: 10238814 Material ID:007 Truck ID:HC3346 Time In:Jul 18 2025 10:38AM	13	$30.00	EACH	$383.10	$0.00	$0.00	$383.10
Ticket#: 10238759 Material ID:007 Truck ID:HC3346 Time In:Jul 18 2025 10:39AM	12	$30.00	EACH	$371.70	$0.00	$0.00	$371.70
Ticket#: 10238778 Material ID:007 Truck ID:HC3346 Time In:Jul 18 2025 10:41AM	11	$30.00	EACH	$337.80	$0.00	$0.00	$337.80
Ticket#: 10238886 Material ID:007 Truck ID:HC3346 Time In:Jul 18 2025 11:04AM	12	$30.00	EACH	$351.90	$0.00	$0.00	$351.90
Ticket#: 10238907 Material ID:007 Truck ID:HC3341 Time In:Jul 18 2025 11:26AM	12	$30.00	EACH	$361.80	$0.00	$0.00	$361.80
Ticket#: 10238951 Material ID:007 Truck ID:HC3346 Time In:Jul 18 2025 12:13PM	12	$30.00	EACH	$369.90	$0.00	$0.00	$369.90
Ticket#: 10238956 Material ID:007 Truck ID:HC3341 Time In:Jul 18 2025 12:18PM	13	$30.00	EACH	$381.30	$0.00	$0.00	$381.30
Ticket#: 10239023 Material ID:007 Truck ID:HC3346 Time In:Jul 18 2025 1:17PM	11	$30.00	EACH	$338.10	$0.00	$0.00	$338.10
Ticket#: 10239031 Material ID:007 Truck ID:HC3341 Time In:Jul 18 2025 1:23PM	13	$30.00	EACH	$391.20	$0.00	$0.00	$391.20
Ticket#: 10239036 Material ID:007 Truck ID:HC3343 Time In:Jul 18 2025 1:25PM	13	$30.00	EACH	$377.70	$0.00	$0.00	$377.70
Ticket#: 10239087 Material ID:007 Truck ID:HC3346 Time In:Jul 18 2025 2:15PM	12	$30.00	EACH	$360.60	$0.00	$0.00	$360.60
Ticket#: 10239082 Material ID:007 Truck ID:HC3341 Time In:Jul 18 2025 2:22PM	13	$30.00	EACH	$389.70	$0.00	$0.00	$389.70
Ticket#: 10239097 Material ID:007 Truck ID:HC3343 Time In:Jul 18 2025 2:26PM	12	$30.00	EACH	$369.60	$0.00	$0.00	$369.60
Ticket#: 10239663 Material ID:007 Truck ID:HC3343 Time In:Jul 21 2025 7:50AM	13	$30.00	EACH	$399.00	$0.00	$0.00	$399.00
Ticket#: 10239673 Material ID:007 Truck ID:HC3346 Time In:Jul 21 2025 8:04AM	12	$30.00	EACH	$350.40	$0.00	$0.00	$350.40
Ticket#: 10239694 Material ID:007 Truck ID:HC3343 Time In:Jul 21 2025 8:36AM	12	$30.00	EACH	$366.60	$0.00	$0.00	$366.60
Ticket#: 10239701 Material ID:007 Truck ID:HC3346 Time In:Jul 21 2025 8:44AM	13	$30.00	EACH	$375.30	$0.00	$0.00	$375.30
Ticket#: 10239729 Material ID:007 Truck ID:HC3343 Time In:Jul 21 2025 9:19AM	12	$30.00	EACH	$372.90	$0.00	$0.00	$372.90
Ticket#: 10239732 Material ID:007 Truck ID:HC3346 Time In:Jul 21 2025 9:20AM	11	$30.00	EACH	$330.30	$0.00	$0.00	$330.30
Ticket#: 10239755 Material ID:007 Truck ID:HC3343 Time In:Jul 21 2025 10:02AM	13	$30.00	EACH	$379.20	$0.00	$0.00	$379.20
Ticket#: 10239758 Material ID:007 Truck ID:HC3346 Time In:Jul 21 2025 10:05AM	12	$30.00	EACH	$350.70	$0.00	$0.00	$350.70
Ticket#: 10239803 Material ID:007 Truck ID:HC3343 Time In:Jul 21 2025 10:49AM	12	$30.00	EACH	$351.90	$0.00	$0.00	$351.90
Ticket#: 10239812 Material ID:007 Truck ID:HC3346 Time In:Jul 21 2025 10:57AM	11	$30.00	EACH	$328.20	$0.00	$0.00	$328.20
Ticket#: 10239866 Material ID:007 Truck ID:HC3343 Time In:Jul 21 2025 11:57AM	10	$30.00	EACH	$306.60	$0.00	$0.00	$306.60
Ticket#: 10239877 Material ID:007 Truck ID:HC3346 Time In:Jul 21 2025 12:06PM	10	$30.00	EACH	$308.40	$0.00	$0.00	$308.40
Ticket#: 10239899 Material ID:007 Truck ID:HC3341 Time In:Jul 21 2025 12:28PM	11	$30.00	EACH	$339.30	$0.00	$0.00	$339.30
Ticket#: 10239903 Material ID:007 Truck ID:HC3340 Time In:Jul 21 2025 12:34PM	12	$30.00	EACH	$361.50	$0.00	$0.00	$361.50
Ticket#: 10239904 Material ID:007 Truck ID:HC3343 Time In:Jul 21 2025 12:35PM	12	$30.00	EACH	$352.20	$0.00	$0.00	$352.20
Ticket#: 10239944 Material ID:007 Truck ID:HC3341 Time In:Jul 21 2025 1:20PM	9	$30.00	EACH	$279.00	$0.00	$0.00	$279.00
Ticket#: 10239975 Material ID:007 Truck ID:HC3341 Time In:Jul 21 2025 2:01PM	11	$30.00	EACH	$332.40	$0.00	$0.00	$332.40

INVOICE
Overflow Report

CUSTOMER	INVOICE DATE	INVOICE NUMBER	AMOUNT PAID	DUE DATE	INVOICE TOTAL DUE
MG OIL COMPANY	08/08/2025	2508050	$0.00	**08/29/2025**	**$54,484.09**

DESCRIPTION	QUANTITY	PRICE	UOM	ORIGINAL BILL	ADJUSTED	PAID	AMOUNT DUE
SALES TAX 6.2 LANDFILL	1	$3,180.79	TAX	$3,180.79	$0.00	$0.00	$3,180.79
Ticket#: 10240013 Material ID:007 Truck ID:HC3341 Time In:Jul 21 2025 2:40PM	15	$30.00	EACH	$447.00	$0.00	$0.00	$447.00
Ticket#: 10240061 Material ID:007 Truck ID:HC3341 Time In:Jul 21 2025 3:25PM	14	$30.00	EACH	$422.10	$0.00	$0.00	$422.10
Ticket#: 10240576 Material ID:007 Truck ID:HC3346 Time In:Jul 23 2025 8:11AM	12	$30.00	EACH	$360.90	$0.00	$0.00	$360.90
Ticket#: 10240578 Material ID:007 Truck ID:HC3343 Time In:Jul 23 2025 8:13AM	15	$30.00	EACH	$445.80	$0.00	$0.00	$445.80
Ticket#: 10240603 Material ID:007 Truck ID:HC3343 Time In:Jul 23 2025 8:51AM	15	$30.00	EACH	$455.70	$0.00	$0.00	$455.70
Ticket#: 10240605 Material ID:007 Truck ID:HC3346 Time In:Jul 23 2025 8:56AM	11	$30.00	EACH	$344.10	$0.00	$0.00	$344.10
Ticket#: 10240623 Material ID:007 Truck ID:HC3341 Time In:Jul 23 2025 9:21AM	11	$30.00	EACH	$327.90	$0.00	$0.00	$327.90
Ticket#: 10240628 Material ID:007 Truck ID:HC3342 Time In:Jul 23 2025 9:25AM	11	$30.00	EACH	$343.50	$0.00	$0.00	$343.50
Ticket#: 10240638 Material ID:007 Truck ID:HC3343 Time In:Jul 23 2025 9:37AM	11	$30.00	EACH	$327.60	$0.00	$0.00	$327.60
Ticket#: 10240642 Material ID:007 Truck ID:HC3346 Time In:Jul 23 2025 9:41AM	11	$30.00	EACH	$325.50	$0.00	$0.00	$325.50
Ticket#: 10240659 Material ID:007 Truck ID:HC3341 Time In:Jul 23 2025 10:05AM	11	$30.00	EACH	$336.30	$0.00	$0.00	$336.30
Ticket#: 10240666 Material ID:007 Truck ID:HC3342 Time In:Jul 23 2025 10:15AM	14	$30.00	EACH	$427.50	$0.00	$0.00	$427.50
Ticket#: 10240670 Material ID:007 Truck ID:HC3343 Time In:Jul 23 2025 10:18AM	13	$30.00	EACH	$393.60	$0.00	$0.00	$393.60
Ticket#: 10240678 Material ID:007 Truck ID:HC3346 Time In:Jul 23 2025 10:26AM	11	$30.00	EACH	$317.40	$0.00	$0.00	$317.40
Ticket#: 10240690 Material ID:007 Truck ID:HC3341 Time In:Jul 23 2025 10:45AM	16	$30.00	EACH	$488.40	$0.00	$0.00	$488.40
Ticket#: 10240705 Material ID:007 Truck ID:HC3342 Time In:Jul 23 2025 11:02AM	12	$30.00	EACH	$374.70	$0.00	$0.00	$374.70
Ticket#: 10240710 Material ID:007 Truck ID:HC3343 Time In:Jul 23 2025 11:08AM	15	$30.00	EACH	$454.20	$0.00	$0.00	$454.20
Ticket#: 10240717 Material ID:007 Truck ID:HC3346 Time In:Jul 23 2025 11:12AM	12	$30.00	EACH	$345.30	$0.00	$0.00	$345.30
Ticket#: 10240728 Material ID:007 Truck ID:HC3341 Time In:Jul 23 2025 11:26AM	15	$30.00	EACH	$462.60	$0.00	$0.00	$462.60
Ticket#: 10240740 Material ID:007 Truck ID:HC3342 Time In:Jul 23 2025 11:46AM	16	$30.00	EACH	$479.10	$0.00	$0.00	$479.10
Ticket#: 10240744 Material ID:007 Truck ID:HC3343 Time In:Jul 23 2025 11:49AM	13	$30.00	EACH	$392.40	$0.00	$0.00	$392.40
Ticket#: 10240802 Material ID:007 Truck ID:HC3346 Time In:Jul 23 2025 12:56PM	11	$30.00	EACH	$315.90	$0.00	$0.00	$315.90
Ticket#: 10240805 Material ID:0071 Truck ID:HC3343 Time In:Jul 23 2025 1:05PM	14	$30.00	EACH	$416.10	$0.00	$0.00	$416.10
Ticket#: 10240806 Material ID:007 Truck ID:HC3341 Time In:Jul 23 2025 1:08PM	13	$30.00	EACH	$398.70	$0.00	$0.00	$398.70
Ticket#: 10240813 Material ID:007 Truck ID:HC3342 Time In:Jul 23 2025 1:16PM	14	$30.00	EACH	$409.20	$0.00	$0.00	$409.20
Ticket#: 10240833 Material ID:007 Truck ID:HC3346 Time In:Jul 23 2025 1:38PM	15	$30.00	EACH	$440.40	$0.00	$0.00	$440.40
Ticket#: 10240837 Material ID:007 Truck ID:HC3343 Time In:Jul 23 2025 1:49PM	14	$30.00	EACH	$423.00	$0.00	$0.00	$423.00
Ticket#: 10240850 Material ID:007 Truck ID:HC3341 Time In:Jul 23 2025 2:04PM	14	$30.00	EACH	$416.40	$0.00	$0.00	$416.40
Ticket#: 10240864 Material ID:007 Truck ID:HC3342 Time In:Jul 23 2025 2:12PM	13	$30.00	EACH	$392.10	$0.00	$0.00	$392.10
Ticket#: 10240876 Material ID:007 Truck ID:HC3346 Time In:Jul 23 2025 2:28PM	13	$30.00	EACH	$403.50	$0.00	$0.00	$403.50
Ticket#: 10240888 Material ID:007 Truck ID:HC3343 Time In:Jul 23 2025 2:35PM	17	$30.00	EACH	$498.90	$0.00	$0.00	$498.90
Ticket#: 10240911 Material ID:007 Truck ID:HC3341 Time In:Jul 23 2025 2:49PM	14	$30.00	EACH	$410.70	$0.00	$0.00	$410.70
Ticket#: 10240918 Material ID:007 Truck ID:HC3342 Time In:Jul 23 2025 2:52PM	15	$30.00	EACH	$463.20	$0.00	$0.00	$463.20

INVOICE
Overflow Report

CUSTOMER	INVOICE DATE	INVOICE NUMBER	AMOUNT PAID	DUE DATE	INVOICE TOTAL DUE
MG OIL COMPANY	08/08/2025	2508050	$0.00	**08/29/2025**	**$54,484.09**

DESCRIPTION	QUANTITY	PRICE	UOM	ORIGINAL BILL	ADJUSTED	PAID	AMOUNT DUE
Ticket#: 10240938 Material ID:007 Truck ID:HC3346 Time In:Jul 23 2025 3:11PM	16	$30.00	EACH	$475.50	$0.00	$0.00	$475.50
Ticket#: 10240950 Material ID:007 Truck ID:HC3343 Time In:Jul 23 2025 3:29PM	15	$30.00	EACH	$435.60	$0.00	$0.00	$435.60
Ticket#: 10240954 Material ID:007 Truck ID:HC3341 Time In:Jul 23 2025 3:37PM	16	$30.00	EACH	$490.80	$0.00	$0.00	$490.80
Ticket#: 10240957 Material ID:007 Truck ID:HC3342 Time In:Jul 23 2025 3:41PM	16	$30.00	EACH	$482.10	$0.00	$0.00	$482.10
Ticket#: 10241005 Material ID:007 Truck ID:HC3343 Time In:Jul 24 2025 7:49AM	14	$30.00	EACH	$415.80	$0.00	$0.00	$415.80
Ticket#: 10241011 Material ID:007 Truck ID:HC3346 Time In:Jul 24 2025 7:55AM	15	$30.00	EACH	$437.70	$0.00	$0.00	$437.70
Ticket#: 10241036 Material ID:007 Truck ID:HC3343 Time In:Jul 24 2025 8:34AM	15	$30.00	EACH	$458.10	$0.00	$0.00	$458.10
Ticket#: 10241041 Material ID:007 Truck ID:HC3346 Time In:Jul 24 2025 8:38AM	15	$30.00	EACH	$436.20	$0.00	$0.00	$436.20
Ticket#: 10241273 Material ID:007 Truck ID:HC3341 Time In:Jul 24 2025 1:22PM	16	$30.00	EACH	$469.20	$0.00	$0.00	$469.20
				Invoice Total:			$54,484.09

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APPENDIX F
Soil Disposal Tonnage Calculation

Petroleum UST Basin Contaminated Soil Removal

	Length (ft)	Width (ft)	Depth (ft)	Cubic Ft	Cubic Yards
UST Basin Excavation	100	33	13	42,900	1,589

	Length	Width	Gallons	Product	Cubic Feet	Calc'd Gallons	Cubic Yards
Tank 1	13	7	4,000	E-85 Gasoline	500.3	3,742	19
Tank 2	27	12	20,000	Gasoline	3,053.6	22,843	113
Tank 3	25	9	12,000	Gasoline	1,590.4	11,897	59
Tank 4	25	9	12,000	Gasoline	1,590.4	11,897	59
Tank 5	25	9	12,000	Diesel	1,590.4	11,897	59
Tank 6	27	12	20,000	Diesel	3,053.6	22,843	113
Tank 7	27	12	20,000	Diesel	3,053.6	22,843	113
Tank 8	27	12	20,000	Diesel	3,053.6	22,843	113
						Total	648

PETROLEUM UST BASIN EXCAVATION VOLUME MINUS UST VOLUMES = 941.26

Average Weight of Soil Per Cubic Yard (lbs) =	2,000.00	to	3,000.00	lbs
Weight Range of Removed Soil (Tons)	**941.26**	**to**	**1,411.88**	**tons**

DEF UST Basin Contaminated Soil Removal

	Length (ft)	Width (ft)	Depth (ft)	Cubic Ft	Cubic Yards
UST Basin Excavation	50	20	10	10,000	370

	Length	Width	Gallons	Product	Cubic Feet	Calc'd Gallons	Cubic Yards
Tank 2	27	12	20,000	DEF	3,054	22,843	113
						Total	113

DEF UST BASIN EXCAVATION VOLUME MINUS UST VOLUME = 257.27

Average Weight of Soil Per Cubic Yard (lbs) =	2,000	to	3,000	lbs
Weight Range of Removed Soil (Tons)	**257**	**to**	**386**	**tons**

Distribution Line Trench Excavations

	Length (ft)	Width (ft)	Depth (ft)	Cubic Ft	Cubic Yards
Western Trench	220	3	3	1,980	73
Middle Trench	40	3	3	360	13
Eastern Trench	65	3	3	585	22
TOTAL VOLUME OF SOIL REMOVED FROM DISTRIBUTION TRENCHES =					**108**
Average Weight of Soil Per Cubic Yard (lbs) =	2,000	to	3,000	lbs	
Weight Range of Removed Soil (Tons)	**108**	**to**	**163**	**tons**	

Calculated Tonnage of Contaminated Soil Removed From Trenches and Both UST Basins (Tons) =	**1,306.86**	**to**	**1,960.29**

Tonnage Disposed of According To Landfill Scale Tickets =	**1,710.11**
	FALLS WITHIN CALCULATED TONNAGE RANGE