



May 4, 2021

Mr. Jason Davidson
Great Western Operating Company, LLC
1001 17th Street, Suite 2000
Denver, Colorado 80202

**RE: Facility Closure Environmental Report
Margil SE Tank Battery and Associated Wellheads
COGCC Remediation Project #16322
Weld County, Colorado**

Mr. Davidson,

Entrada Consulting Group, Inc. (Entrada) has prepared this Facility Closure Environmental Report for Great Western Operating Company, LLC (GWOC) in association with the facility closure of the combined Margil SE tank battery (Facility ID# 427888) and the Margil 34-34D, 34PD, and 34TD wells (API# 05-123-35167, 05-123-35152 and 05-123-35159) located in Weld County, Colorado. The site is located on Weld County Road 38 approximately 0.21 miles west of US Interstate 25. The center location coordinates of the Margil SE battery and well pad are 40.263623° north latitude and -104.984610° west longitude. A general location map is provided as Figure 1.

The facility is surrounded by agricultural fields to the north, south, and east and a vacant field to the west. The Mead irrigation ditch is located approximately 1,150 feet to the southeast. There are residential properties located approximately 750 feet to the west and 1,080 feet to the southwest. There is a red-tailed hawk nest within 0.33 miles of the facility; and therefore, GWOC completed facility closure activities before 2/15/2021. Groundwater well Permit# 88167, approximately 2,400 feet to the southwest, reported a static water level of 50 feet below ground surface (ft-bgs) at the time of completion. A review of the Colorado Oil and Gas Conservation (COGCC) online Geographic Information Systems (GIS) database indicates that there are no additional sensitive areas or wildlife habitats identified within a quarter mile of the facility.

Entrada was retained by GWOC to observe the removal of tanks, separators, wellheads, flowlines, dump lines, and associated equipment of the Margil SE facility in

January and February of 2021. There are seven wells associated with the Margil SE facility. The Margil 33-34D, 44-34D, 43-34D, and 34DD wells were plugged and abandoned between July 28, 2020 and August 15, 2020. The associated flowlines were removed between August 20, 2020 and September 3, 2020. Partially buried vessel removal activities, tank battery closure activities, and dump line removal activities occurred between January 26, 2021 and February 11, 2021. Cut and cap activities of the Margil 34-34D, 34PD, and 34TD wells, and removal of associated flowlines, took place on February 11, 2021. Site investigation activities, field screening, and confirmation soil sampling activities were conducted in accordance with COGCC 900 Series Rules and guidance documents. The Initial Form 27 Site Investigation and Remediation Workplan Document #402581353 was approved by the COGCC on January 25, 2021 and assigned Remediation Project #16322. Discreet soil samples were collected and analyzed pursuant to Rule 915, following the general sample collection guidance in Rule 915.e.(2).

SOIL SAMPLING INVESTIGATION

Soils encountered during the investigation are characterized as brown sandy clay and silty sands underlain by red fine sand. As discussed above, groundwater in the area is estimated to be approximately 50 ft-bgs. A migration route to groundwater was not observed and thus Residential Soil Screening Levels (RSSLs) were used for this investigation.

During facility closure activities, twenty-five discrete soil samples, including two background samples, were collected and submitted for laboratory analysis and twenty-nine discrete soil samples were collected for field screening only by visual and olfactory observations and by using a photoionization detector (PID) calibrated to a 100 parts per million isobutylene gas standard. Soil sample locations and field screening results are provided on Figure 2. Analytical results for the tank area, separator area, and the three wellheads are provided on Figure 3 through Figure 5, as well as Table 1 and Table 2. Field screening results, and sample location information, is provided in Table 3. A photographic log of facility closure activities is provided as Attachment A, facility closure checklists are provided as Attachment B, and laboratory analytical reports are provided as Attachment C. All waste generated during the closure activities was managed and disposed of under GWOC manifest at Waste Connections' Front Range Landfill in Erie, CO in accordance with Rules 905 and 906. Copies of the waste manifests are included as Attachment D.

SOIL ANALYSIS

Soil samples to be submitted for laboratory analysis were collected in 4-ounce sample jars, sealed, labeled and placed into an ice-filled cooler for preservation. Soil samples were submitted to Origins Laboratory of Denver, Colorado following chain of custody procedures and analyzed for the following parameters by the stated methods:

All Confirmation Soil Samples (SS1-SS22)

- Benzene, Toluene, Ethylbenzene, Total Xylenes, Naphthalene (BTEXN) and Total Petroleum Hydrocarbons (TPH)-Gasoline Range Organics (GRO) by EPA Method 8260D
- TPH-Diesel Range Organics (DRO) and TPH-Oil Range Organics (ORO) by EPA Method 8015D

Produced Water Tank Excavation Floor Samples (SS10-SS11)

- BTEXN, TPH-GRO, TPH-DRO, TPH-ORO by the methods stated above, and Electrical Conductivity (EC) by Modified 9050A, Sodium Absorption Ratio (SAR) by 20B Saturated Paste Method, pH by EPA Method 9045D and Boron by Hot Water-Soluble Soil Extract Method.

Separator Release Floor Sample (SS9)

- Analyzed for the full COGCC Table 915-1 analytical suite

Background Samples (BG1 and BG2)

- Electrical Conductivity (EC) by Modified 9050A, Sodium Absorption Ratio (SAR) by 20B Saturated Paste Method, pH by EPA Method 9045D, Arsenic (As) by 6020A and Boron by Hot Water-Soluble Soil Extract Method.

SOIL ANALYTICAL RESULTS

Soil analytical results were reported for twenty-five soil samples collected at various depths. Sample depth corresponds to the second number in the sample name and is also shown in the depth columns of Table 1 and Table 3. A summary of analytical results exceeding their respective COGCC Table 915-1 RSSLs is presented below:

- TPH was reported above the Table 915-1 RSSL of 500 milligrams per kilogram (mg/kg) in soil sample SS2-1 (950 mg/kg), collected beneath a 300 BBL steel oil aboveground storage tank (AST).
- EC was reported above the Table 915-1 RSSL of 4 millimhos per centimeter (mmhos/cm) in soil sample SS10-7 (7.57 mmhos/cm), collected from the floor of the partially buried produced water tank excavation.
- SAR was reported above the Table 915-1 RSSL of 6 in soil samples SS10-7 (6.04) and SS11-7 (6.09), collected from the floor of the partially buried produced water tank excavation.
- pH was reported above the Table 915-1 RSSL of 8.3 in background soil sample BG1-1 (8.37) and confirmation soil sample SS9-6 (8.52), collected from the floor of the separator excavation.

- Boron was reported at the Table 915-1 RSSL of 2 milligrams per liter (mg/l) in soil sample SS11-7 (2.0 mg/l), collected from the floor of the partially buried produced water tank excavation.
- Arsenic was reported above the Table 915-1 RSSL of 0.68 mg/kg in background samples BG1-1 (3.88 mg/kg) and BG2-1 (3.75 mg/kg), as well as confirmation soil sample SS9-6 (3.08 mg/kg).

All other analytes for samples submitted for laboratory analysis were reported below their respective Table 915-1 RSSLs.

HYDROCARBON IMPACTED SOIL EXCAVATION ACTIVITIES

Separator Area

Approximately 23 cubic yards of hydrocarbon impacted soil was removed from the separator area. Entrada directed the excavation based on visual and olfactory observations and field screening with a PID. Following excavation activities, one floor sample (SS9-6) and four sidewall samples (SS16-SS19) were submitted for laboratory analysis. The excavation perimeter and sample locations are displayed on Figure 4. Elevated arsenic concentrations and pH reported in floor sample SS9-6 is interpreted to be representative of background levels, as confirmed in background samples BG1-1 and BG1-2. The excavation of the hydrocarbon impacted soils beneath the separator resulted in the removal of more than 10 cubic yards; therefore, the release was reported under Form 19 (Document Number 402585471) to the COGCC on January 28, 2021. The Form 19 was approved on January 29, 2021 and work continued under Remediation Project #16322. The analytical results reported for the confirmation soil samples collected from the sidewalls and floor of the excavation indicate that all hydrocarbon impacted soil was sufficiently removed.

300-BBL AST Area

Using the same methods described above, Entrada directed the excavation of approximately 9 cubic yards of hydrocarbon impacted soil encountered in the vicinity of SS2-1, beneath a 300 BBL steel oil AST, inside secondary containment. The location of this sample is shown on Figure 3. Following excavation activities, a second confirmation soil sample, SS2-4, was collected from the floor of the excavation at approximately 4 ft-bgs and was submitted for laboratory analysis. Analytical results for SS2-4 were reported at concentrations below their respective COGCC Table 915-1 RSSLs, indicating that all impacted soil was sufficiently removed.

SUMMARY

Based on site investigation activities and confirmation soil sample analytical results presented herein, all hydrocarbon impacted soils encountered during facility closure activities have been sufficiently excavated and transported off site for disposal. The pH, EC, Boron, and SAR levels in confirmation soil samples SS10-7 and SS11-7, and

arsenic concentrations in confirmation soil sample SS9-6 were reported above their respective Table 915-1 RSSLs. The pH level and arsenic concentrations are interpreted to be representative of background levels, and EC, Boron and SAR levels at a depth of 7 ft-bgs, are assumed to be out of the root zone of native vegetation. Please refer to the Reclamation Plan section of the Supplemental Form 27 Site Investigation and Remediation Workplan Document #402685197 for a detailed description of GWOC's final reclamation plan.

Entrada recommends that GWOC request closure of the Margil SE facility regarding COGCC Remediation #16322.

We appreciate the opportunity to assist Great Western Operating Company, LLC. Please contact me at (804) 513-0707 if you have any questions.

Sincerely,

ENTRADA CONSULTING GROUP

A handwritten signature in black ink, appearing to read 'Ben Baugh', with a stylized flourish at the end.

Ben Baugh, PG
Senior Project Geologist

Attachments:

Figure 1 – General Location Map
Figure 2 – Soil Analytical Results: Field Screening
Figure 3 – Soil Analytical Results: Tank Battery
Figure 4 – Soil Analytical Results: Separator Containment
Figure 5 – Soil Analytical Results: Wellheads
Table 1 – Soil Analytical Results: BTEX, TPH, Inorganics
Table 2 – Soil Analytical Results: PAHs, Metals
Table 3 – Soil Sample Location Information
Attachment A: Photographic Log
Attachment B: Facility Closure Checklists
Attachment C: Laboratory Analytical Reports
Attachment D: Waste Manifests

FIGURES



PROJECT NO:
 DRAWN BY: JED
 DATE: 01/22/2021

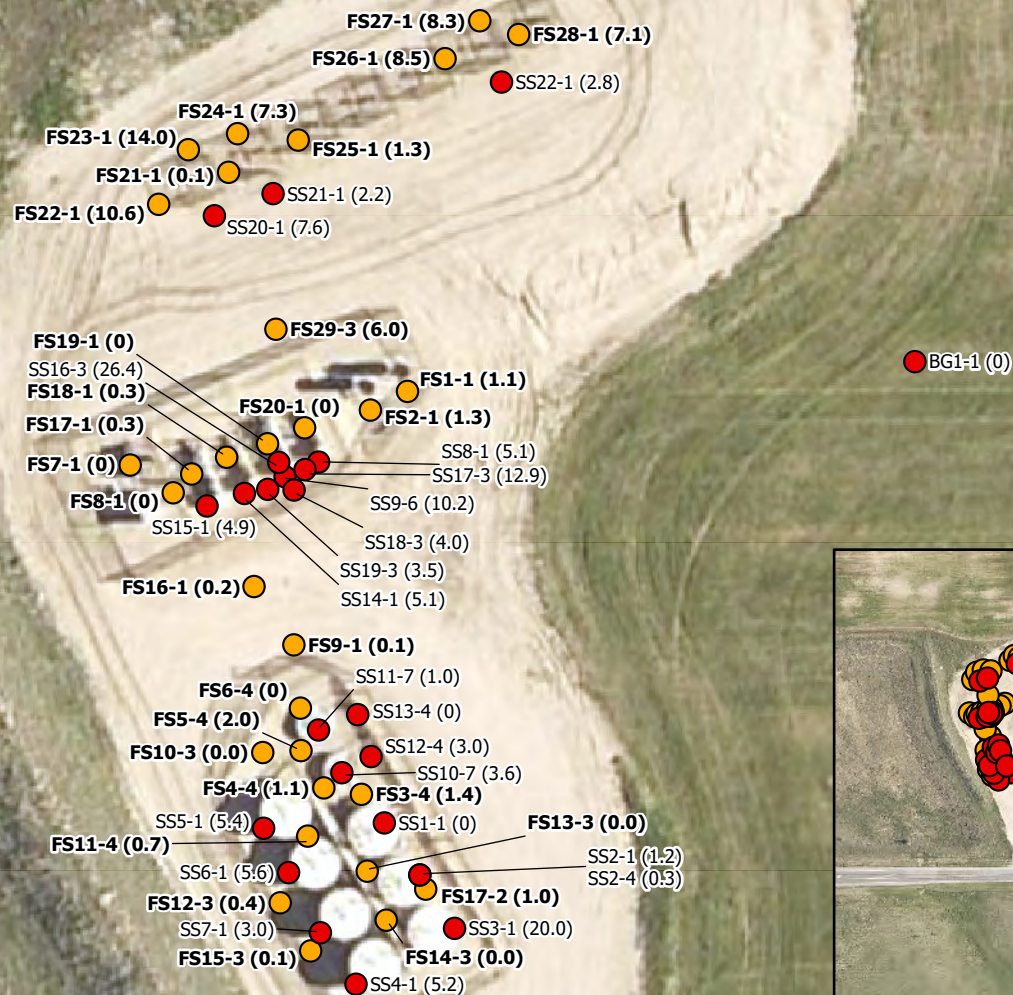
Site Location Map
 Margil SE Tank Battery
 SESE S34 T4N R68W
 Weld County, Colorado



1001 17th Street, Suite 2000
 Denver, CO 80202
 TEL. 303-398-0302

FIGURE

1

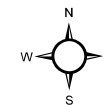
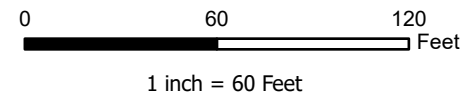


LABEL LEGEND
 SS: SOIL SAMPLE
 FS: FIELD SCREENING SAMPLE
 BG: BACKGROUND SAMPLE
 PID: PHOTO IONIZATION DETECTOR

LEGEND

- Sample Point
- Screening Location

NOTES:
 - Sample Label (PID Result)



Project No: 021-006

Map By: JW

Date: 02/21/2021

SOIL ANALYTICAL RESULTS - FIELD SCREENING
 MARGIL SE TANK BATTERY
 GREAT WESTERN OPERATING COMPANY
 SW 1/4 NE 1/4 SECTION 14
 T4N R68W, 6TH PM
 WELD COUNTY, COLORADO



1843 Sunlight Dr.
 Longmont, CO 80504
 303.378.4036

Figure

2

SS11-7	
1/26/2021	
SAR:	6.09
Boron:	2.0

SS10-7	
1/26/2021	
EC:	7.57
SAR:	6.04

SS2-1		SS2-4	
1/26/2021		1/29/2021	
TPH:	950	TPH:	<200

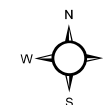
LABEL LEGEND
 EC: ELECTRICAL CONDUCTANCE
 SAR: SOIL ABSORPTION RATIO
 TPH: TOTAL PETROLEUM HYDROCARBONS (mg/kg)
 SS: SOIL SAMPLE
 mg/kg: MILLIGRAMS PER KILOGRAM
 < : RESULT IS LESS THAN LABORATORY REPORTING LIMIT

All other analytes and samples submitted for analysis are in compliance with their respective Table 915-1 standards.

LEGEND

● Sample Point

0 20 40 Feet
 1 inch = 20 Feet



Project No: 021-006

Map By: JW

Date: 02/21/2021

SOIL ANALYTICAL RESULTS - TANK BATTERY
 MARGIL SE TANK BATTERY
 GREAT WESTERN OPERATING COMPANY
 SW 1/4 NE 1/4 SECTION 14
 T4N R68W, 6TH PM
 WELD COUNTY, COLORADO



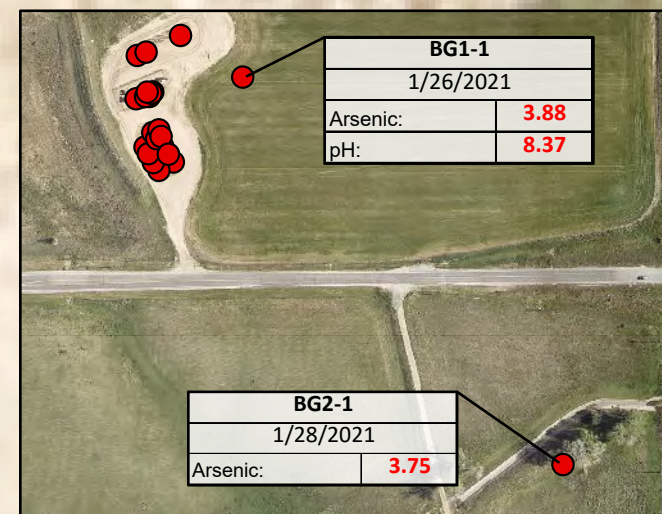
1843 Sunlight Dr.
 Longmont, CO 80504
 303.378.4036

Figure

3

SS9-6	
1/27/2021	
Arsenic:	3.08
pH:	8.52

Approx. 23 cubic yards of
impacted material removed



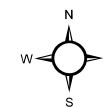
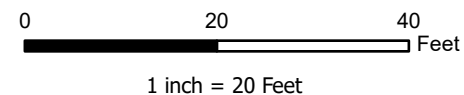
All other analytes and samples submitted for analysis
are in compliance with their respective Table 915-1
standards.

LABEL LEGEND

SS: SOIL SAMPLE
BG: BACKGROUND SAMPLE

LEGEND

- Sample Point
- Material Removed



Project No: 021-006

Map By: JW

Date: 02/21/2021

SOIL ANALYTICAL RESULTS - SEPARATOR CONTAINMENT
MARGIL SE TANK BATTERY
GREAT WESTERN OPERATING COMPANY
SW 1/4 NE 1/4 SECTION 14
T4N R68W, 6TH PM
WELD COUNTY, COLORADO



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Figure

4



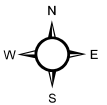
LABEL LEGEND
SS: SOIL SAMPLE

All analytes and samples submitted for analysis are in compliance with their respective Table 915-1 standards.

LEGEND

● Sample Point

0 20 40 Feet
1 inch = 20 Feet



Project No: 021-006

Map By: JW

Date: 02/21/2021

SOIL ANALYTICAL RESULTS - WELLHEAD
MARGIL SE TANK BATTERY
GREAT WESTERN OPERATING COMPANY
SW 1/4 NE 1/4 SECTION 14
T4N R68W, 6TH PM
WELD COUNTY, COLORADO



1843 Sunlight Dr.
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Figure

5

TABLES

TABLE 1
Analytical Results Summary Table: BTEXN, TPH and Soil Suitability for Reclamation Standards
Margil SE Tank Battery. Mead, CO

Sample Information				BTEXN					TPH				Soil Suitability for Reclamation Standards			
Sample ID	Depth	Sample Date	PID Field Screening	Benzene	Toluene	Ethylbenzene	Total Xylenes	Napthalene	GRO	DRO	ORO	TPH	EC	SAR	pH	Boron
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg									mmhos/cm	Unitless	Unitless	mg/l
COGCC Table 915-1 RSSLs -->			NA	1.2	490	5.8	58	2	500	500	500	500	4	6	6.0-8.3	2
BG1-1	1	1/26/2021	0.0	-	-	-	-	-	-	-	-	-	0.633	0.32	8.37	0.6
BG2-1	1	1/28/2021	0.0	-	-	-	-	-	-	-	-	-	1.55	0.91	7.61	1.9
SS1-1	1	1/26/2021	0.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	-	-	-	-
SS2-1	1	1/26/2021	1.2	0.002	0.003	<0.002	<0.002	<0.008	0.322	375	575	950	-	-	-	-
SS2-4	4	1/29/2021	0.3	-	-	-	-	-	-	<50.0	<200	<200	-	-	-	-
SS3-1	1	1/26/2021	20.0	0.083	0.187	0.02	0.131	<0.008	2.73	<50.0	<200	<200	-	-	-	-
SS4-1	1	1/26/2021	5.2	<0.002	0.002	<0.002	<0.002	<0.008	0.575	<50.0	<200	<200	-	-	-	-
SS5-1	1	1/26/2021	5.4	<0.002	0.002	<0.002	0.005	<0.008	0.240	<50.0	<200	<200	-	-	-	-
SS6-1	1	1/26/2021	5.6	0.005	0.004	<0.002	0.011	0.010	1.89	73.9	<200	76	-	-	-	-
SS7-1	1	1/26/2021	3.0	<0.002	0.002	<0.002	<0.002	<0.008	0.528	<50.0	<200	<200	-	-	-	-
SS8-1	1	1/26/2021	5.1	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	-	-	-	-
SS9-6	6	1/27/2021	10.2	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	0.591	1.57	8.52	0.7
SS10-7	7	1/26/2021	3.6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	7.57	6.04	7.90	1.6
SS11-7	7	1/26/2021	1.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	2.79	6.09	7.96	2.0
SS12-4	4	1/26/2021	3.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	-	-	-	-
SS13-4	4	1/26/2021	0.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	-	-	-	-
SS14-1	1	1/26/2021	5.1	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	-	-	-	-
SS15-1	1	1/26/2021	4.9	<0.002	<0.002	0.002	0.018	<0.008	0.430	122	<200	122	-	-	-	-
SS16-3	3	1/27/2021	26.4	<0.002	0.003	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	-	-	-	-
SS17-3	3	1/27/2021	12.9	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	-	-	-	-
SS18-3	3	1/27/2021	4.0	<0.002	0.003	<0.002	0.007	<0.008	<0.200	<50.0	<200	<200	-	-	-	-
SS19-3	3	1/27/2021	3.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	-	-	-	-
SS20-1	1	2/11/2021	7.6	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	-	-	-	-
SS21-1	1	2/11/2021	2.2	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	-	-	-	-
SS22-1	1	2/11/2021	2.8	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	<200	<200	-	-	-	-

Notes:

GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
TPH - Total Petroleum Hydrocarbons
EC - Electrical Conductivity
SAR - Sodium Absorption Ratio
PID - Photo Ionization Detector
RSSL - Residential Soil Screening Level

ft-bgs - feet below ground surface
mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter
mg/l - milligrams per liter
ppm - parts per million
COGCC - Colorado Oil and Gas Conservation Commission
BTEXN - Benzene, Toluene, Ethylbenzene, Xylenes, Napthalene
BOLD - value exceeds Table 915-1 RSSL

TABLE 2
Analytical Results Summary Table: Remaining
Polycyclic Aromatic Hydrocarbons and Metals
Margil SE Tank Battery. Mead, CO

Analyte	COGCC Table 915-1 RSSL	SS9-6	BG1-1	BG2-1	Units
Sample Information					
Sample Date	NA	1/27/2021	1/26/2021	1/28/2021	mm/dd/yyyy
Sample Depth	NA	6	1	1	ft-bgs
Field Screening	NA	10.2	0.0	0.0	ppm
Remaining Organic Compounds in Soil					
1,2,4-trimethylbenzene	30	0.000752	-	-	mg/kg
1,3,5-trimethylbenzene	27	0.00151	-	-	mg/kg
acenaphthene	360	<0.000431	-	-	mg/kg
anthracene	1800	<0.000426	-	-	mg/kg
benz(a)anthracene	1.1	<0.000421	-	-	mg/kg
benzo(b)fluoranthene	1.1	<0.000486	-	-	mg/kg
benzo(k)fluoranthene	11	0.000362	-	-	mg/kg
benzo(a)pyrene	0.11	0.000216	-	-	mg/kg
chrysene	110	<0.000256	-	-	mg/kg
dibenzo(a,h)anthracene	0.11	<0.000279	-	-	mg/kg
fluoranthene	240	<0.000529	-	-	mg/kg
naphthalene	2	<0.000467	-	-	mg/kg
pyrene	180	<0.000387	-	-	mg/kg
Metals in Soil					
arsenic	0.68	3.08	3.88	3.75	mg/kg
barium	15000	187	-	-	mg/kg
cadmium	71	0.191	-	-	mg/kg
chromium (VI)	0.3	<0.287	-	-	mg/kg
copper	3100	11.7	-	-	mg/kg
lead	400	10.5	-	-	mg/kg
nickel	1500	14.2	-	-	mg/kg
selenium	390	0.337	-	-	mg/kg
silver	390	0.0417	-	-	mg/kg
zinc	23000	48.8	-	-	mg/kg

Notes:

SS9-6: Sample Name

mg/kg - milligrams per kilogram

COGCC - Colorado Oil and Gas Conservation Commission

ft-bgs - feet below ground surface

ppm - parts per million

RSSL - Residential Soil Screening Level

BOLD - value exceeds Table 915-1 RSSL

TABLE 3
Soil Sample and Field Screening Information
Margil SE Tank Battery, Mead, CO

Sample Information					
Sample ID	Depth	Sample Date	PID Field Screening	Latitude	Longitude
Units -->	ft-bgs	mm/dd/yyyy	ppm	Decimal Degree (NAD83)	
BG1-1	1	1/26/2021	0.0	40.26378066	-104.9838637
BG2-1	1	1/28/2021	0.0	40.26155346	-104.9814869
SS1-1	1	1/26/2021	0.0	40.26338764	-104.9844608
SS2-1	1	1/26/2021	1.2	40.26334281	-104.9844214
SS2-4	4	1/29/2021	0.3	40.26334281	-104.9844214
SS3-1	1	1/26/2021	20.0	40.26329684	-104.9843829
SS4-1	1	1/26/2021	5.2	40.26324942	-104.9844936
SS5-1	1	1/26/2021	5.4	40.26338365	-104.984596
SS6-1	1	1/26/2021	5.6	40.26329375	-104.9845331
SS7-1	1	1/26/2021	3.0	40.2633455	-104.9845683
SS8-1	1	1/26/2021	5.1	40.26369748	-104.984532
SS9-6	6	1/27/2021	10.2	40.26368512	-104.9845697
SS10-7	7	1/26/2021	3.6	40.26343094	-104.984508
SS11-7	7	1/26/2021	1.0	40.26346764	-104.9845338
SS12-4	4	1/26/2021	3.0	40.2634446	-104.9844752
SS13-4	4	1/26/2021	0.0	40.26348067	-104.9844899
SS14-1	1	1/26/2021	5.1	40.26367095	-104.9846153
SS15-1	1	1/26/2021	4.9	40.26366039	-104.9846573
SS16-3	3	1/27/2021	26.4	40.2636974	-104.9845766
SS17-3	3	1/27/2021	12.9	40.26369115	-104.9845473
SS18-3	3	1/27/2021	4.0	40.26367363	-104.9845597
SS19-3	3	1/27/2021	3.5	40.26367436	-104.9845892
SS20-1	1	2/11/2021	7.6	40.26390933	-104.9846471
SS21-1	1	2/11/2021	2.2	40.26392802	-104.9845813
SS22-1	1	2/11/2021	2.8	40.26402257	-104.9843248
FS1-1	1	1/26/2021	1.1	40.26375768	-104.984432
FS2-1	1	1/26/2021	1.3	40.26374184	-104.9844737
FS3-1	1	1/26/2021	1.4	40.26341227	-104.9844863
FS4-1	1	1/26/2021	1.1	40.26341798	-104.9845283
FS5-1	1	1/26/2021	2.0	40.26345006	-104.9845537
FS6-1	1	1/26/2021	0.0	40.26348652	-104.984554
FS7-1	1	1/26/2021	0.0	40.26369589	-104.984743
FS8-1	1	1/26/2021	0.0	40.26367187	-104.9846951
FS9-1	1	1/27/2021	0.1	40.26354081	-104.984561
FS10-3	3	1/28/2021	0.0	40.26344861	-104.9845964
FS11-4	4	1/28/2021	0.7	40.26337669	-104.9845467
FS12-3	3	1/28/2021	0.4	40.26331962	-104.9845779
FS13-3	3	1/28/2021	0.0	40.26334629	-104.9844803
FS14-3	3	1/28/2021	0.0	40.26330417	-104.9844593
FS15-3	3	1/28/2021	0.1	40.26327821	-104.9845441
FS16-1	1	1/29/2021	0.2	40.26359105	-104.9846052
FS17-1	1	2/4/2021	0.3	40.26368791	-104.9846743
FS18-1	1	2/5/2021	0.3	40.26370209	-104.984635
FS19-1	1	2/6/2021	0.0	40.26371347	-104.9845891
FS20-1	1	2/7/2021	0.0	40.26372697	-104.9845475
FS21-1	1	2/11/2021	0.1	40.26394653	-104.984631
FS22-1	1	2/11/2021	10.6	40.26391941	-104.9847094
FS23-1	1	2/11/2021	14.0	40.26396613	-104.9846759
FS24-1	1	2/11/2021	7.3	40.26397961	-104.9846206
FS25-1	1	2/11/2021	1.3	40.26397383	-104.9845528
FS26-1	1	2/11/2021	8.5	40.26404291	-104.9843878
FS27-1	1	2/11/2021	8.3	40.26407527	-104.9843487
FS28-1	1	2/11/2021	7.1	40.26406326	-104.9843053
FS29-3	3	2/11/2021	6.0	40.26381164	-104.984579

Notes:

PID - Photo Ionization Detector
ft-bgs - feet below ground surface
ppm - parts per million

ATTACHMENT A
PHOTOGRAPHIC LOG

Margil SE Photographic Log



Margil SE Photographic Log



Margil SE Photographic Log



Margil SE Photographic Log



Margil SE Photographic Log



Margil SE Photographic Log

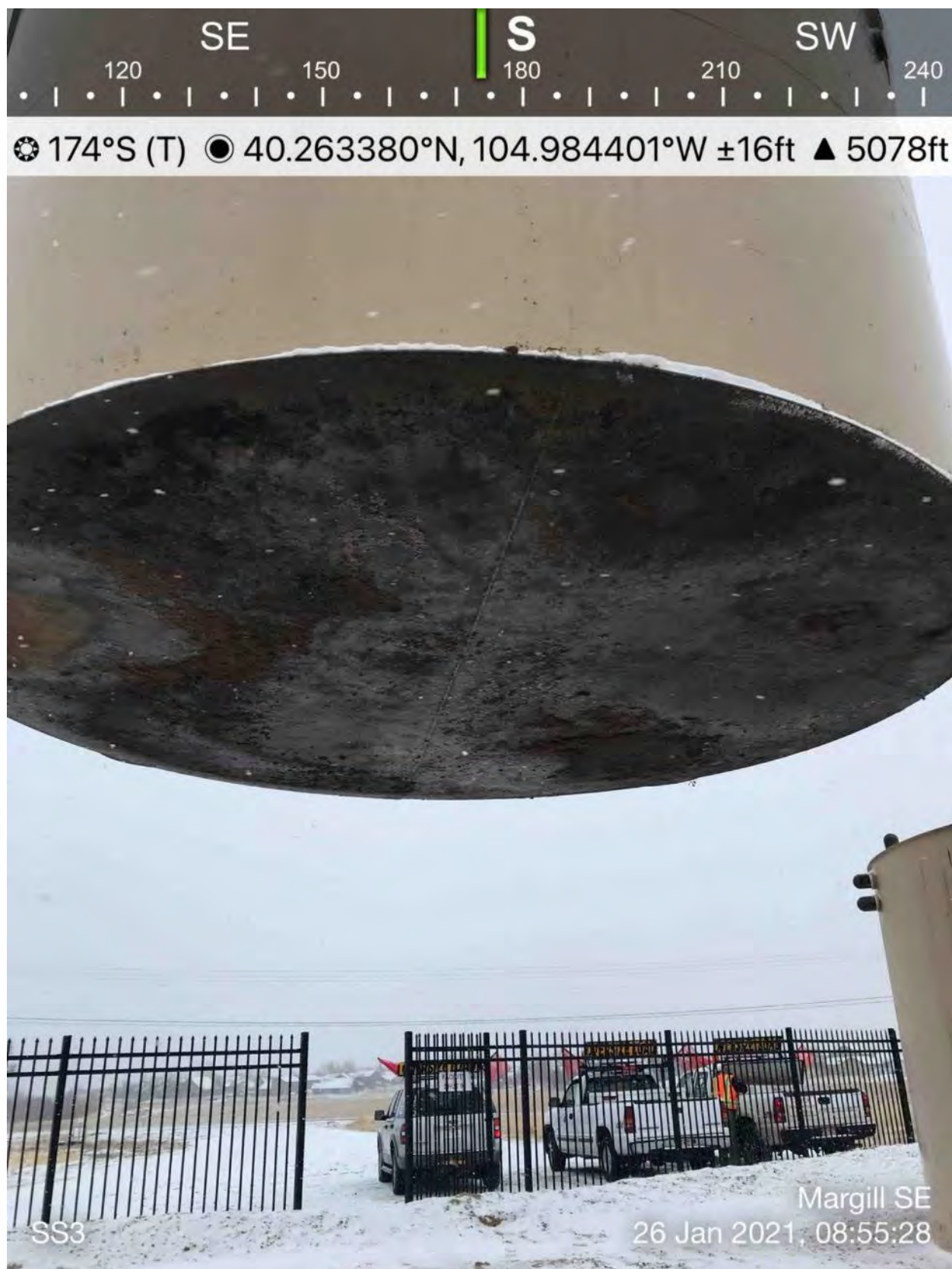


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February 2021

Margil SE Photographic Log



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February 2021

Margil SE Photographic Log



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February 2021

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Margil SE Photographic Log



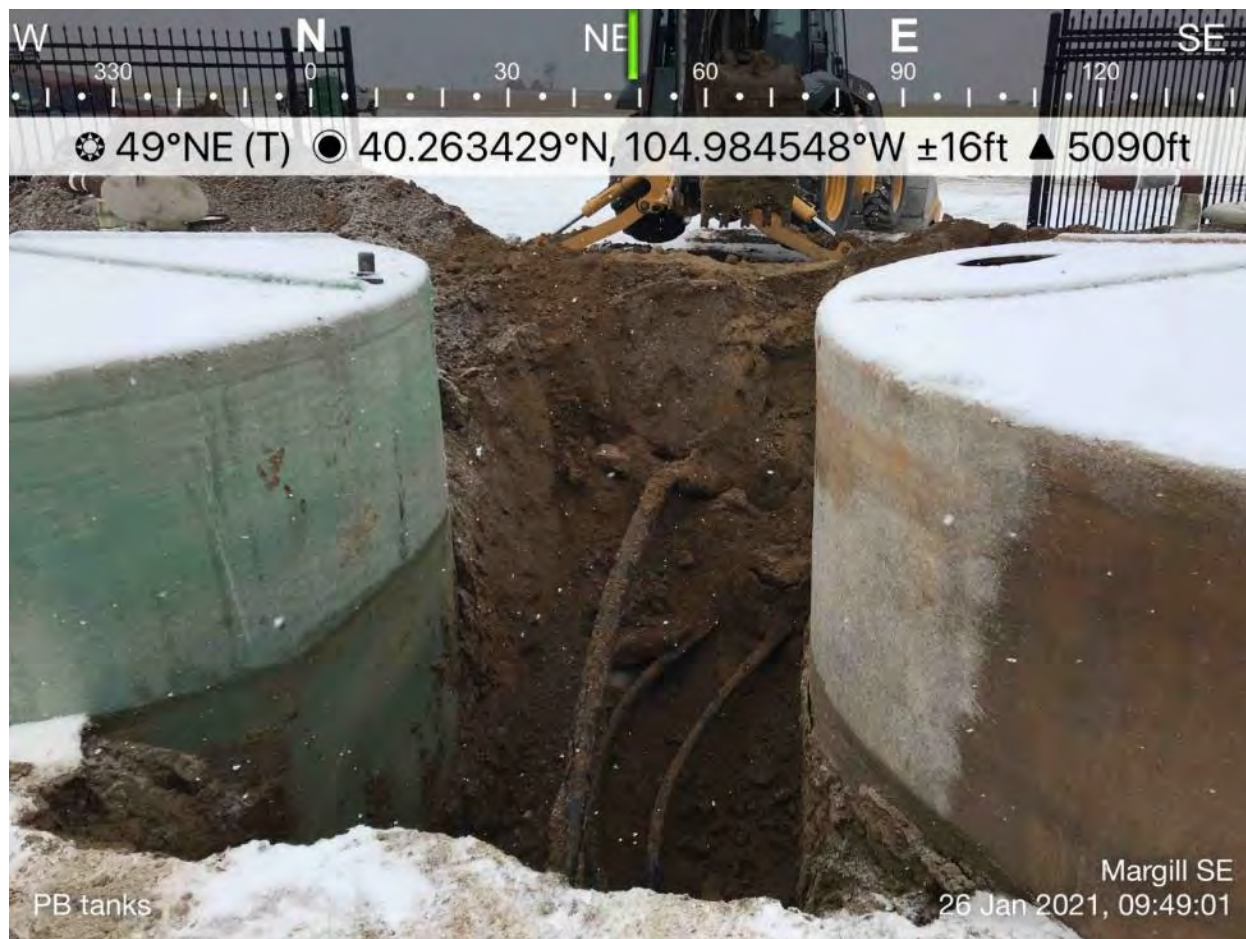
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February 2021

Margil SE Photographic Log

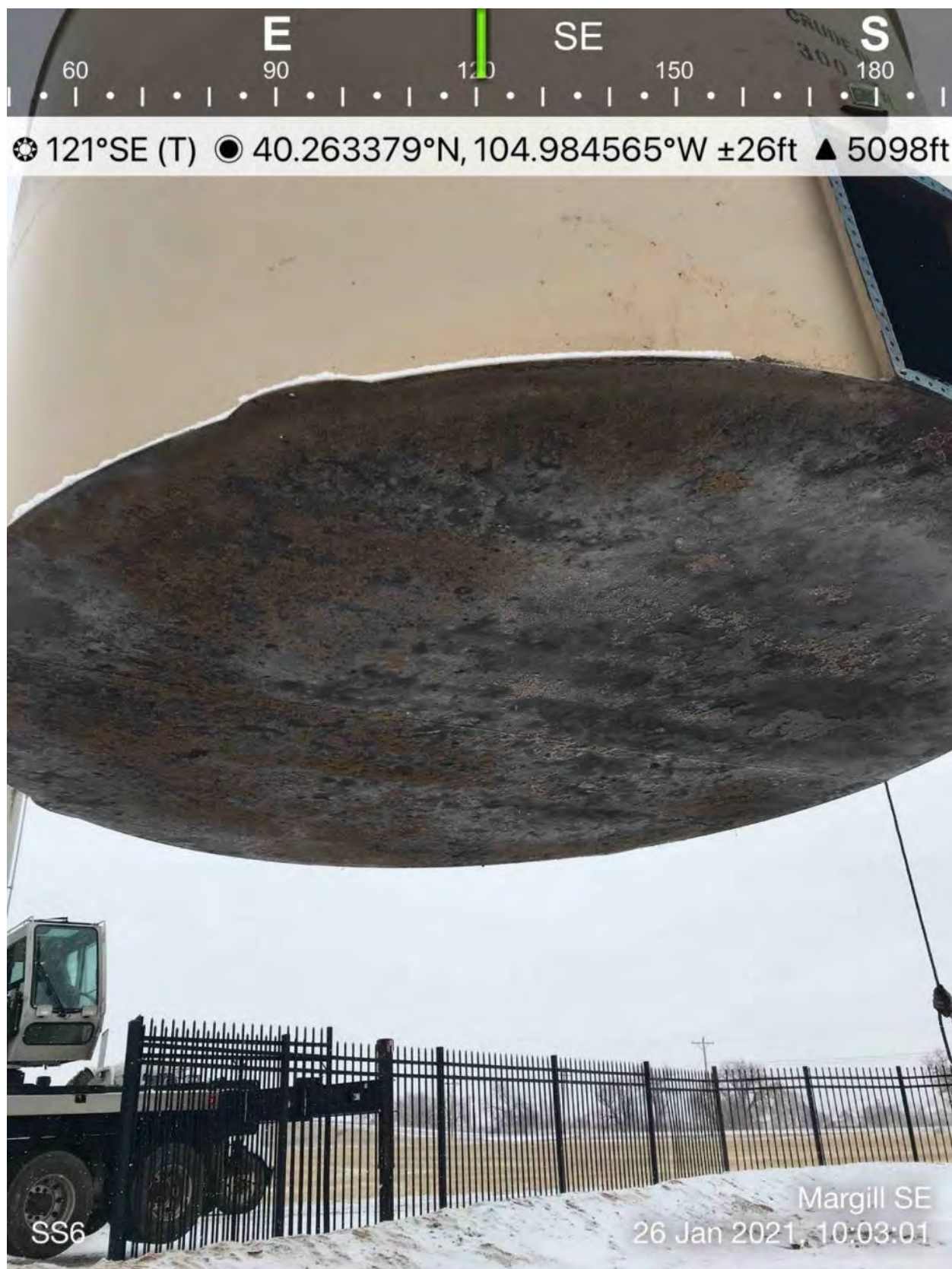


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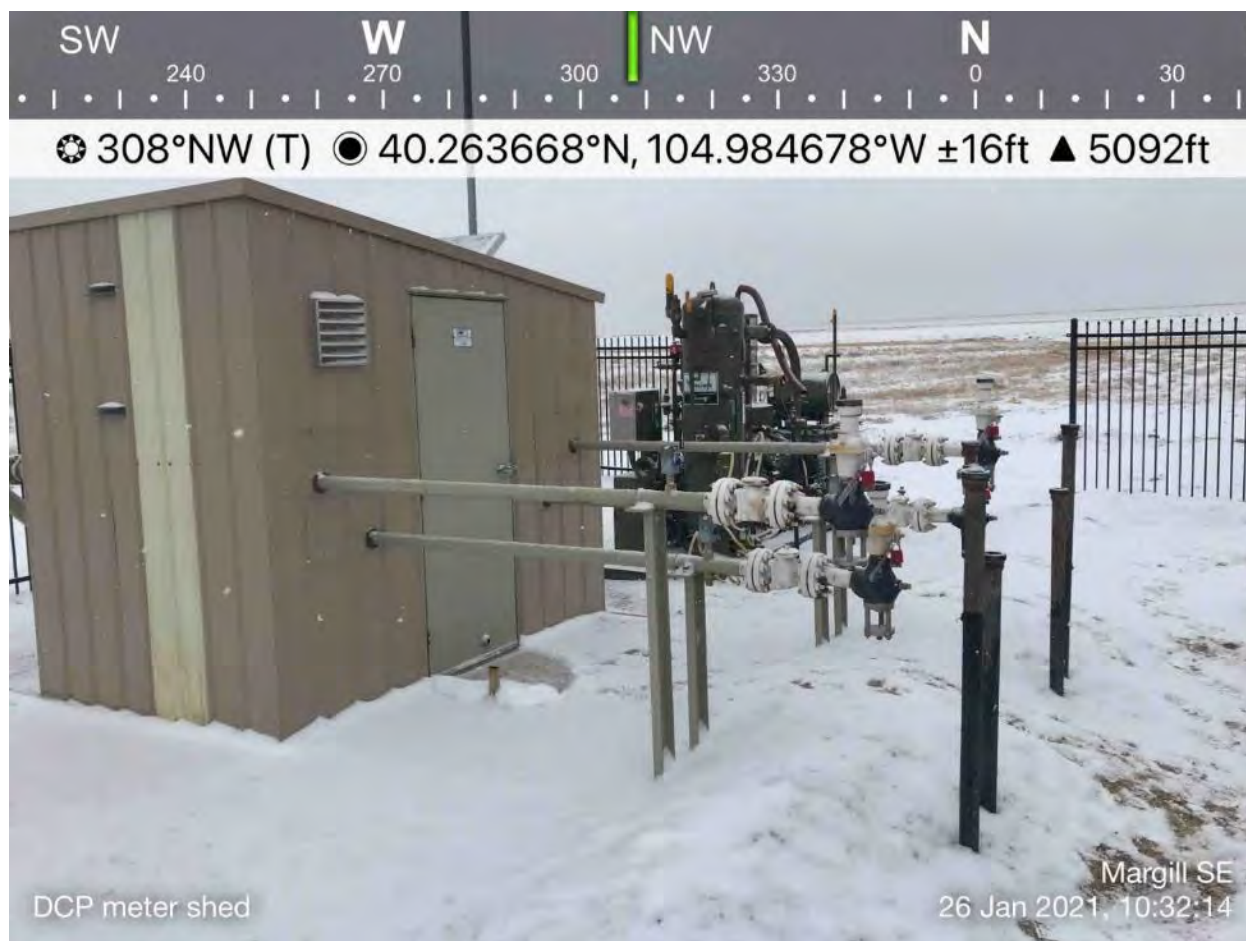
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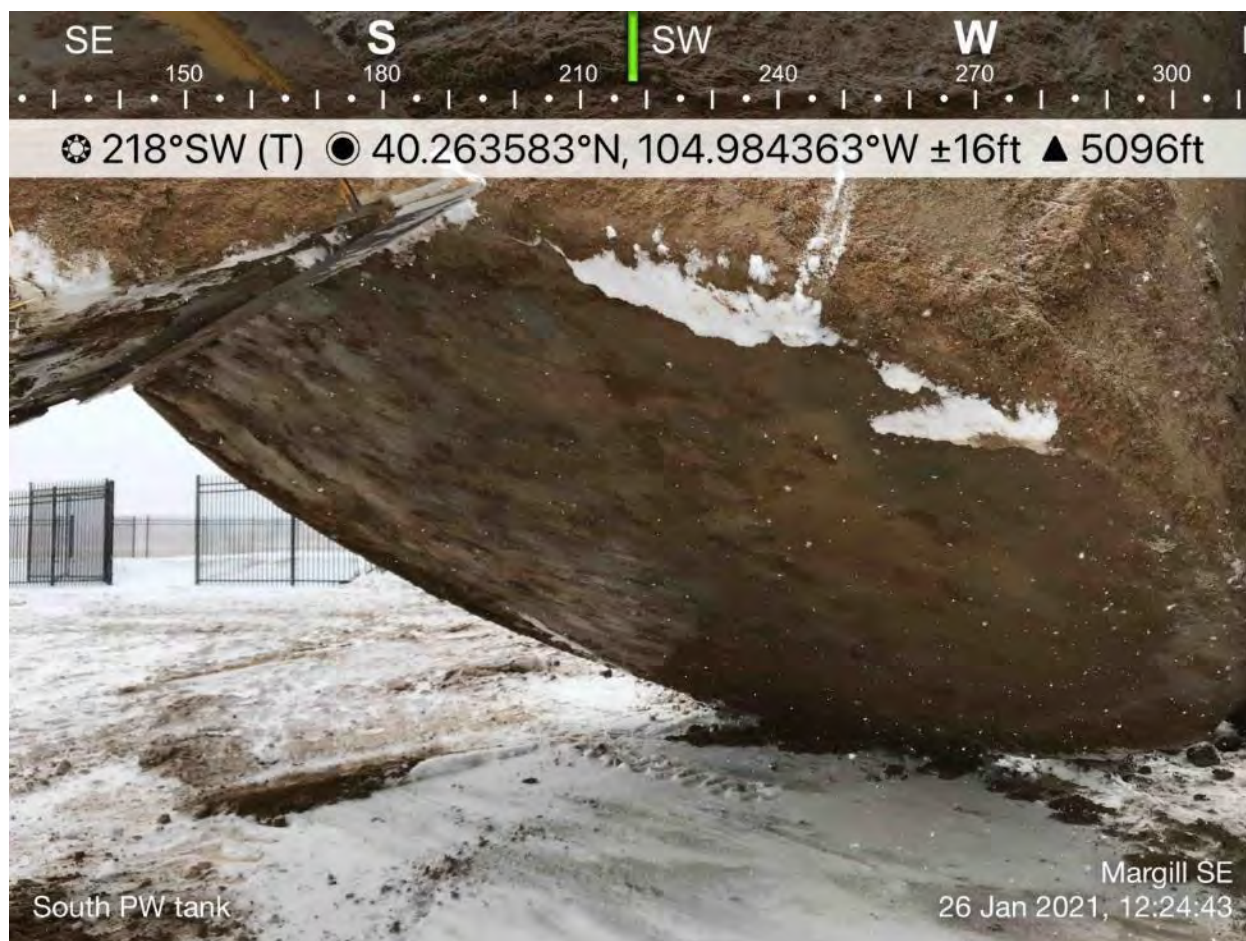
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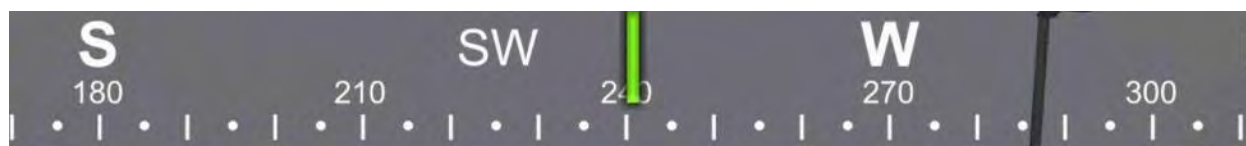
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☉ 241°SW (T) ● 40.263726°N, 104.984650°W ±16ft ▲ 5102ft



FS8-1

Margill SE
26 Jan 2021, 13:50:50

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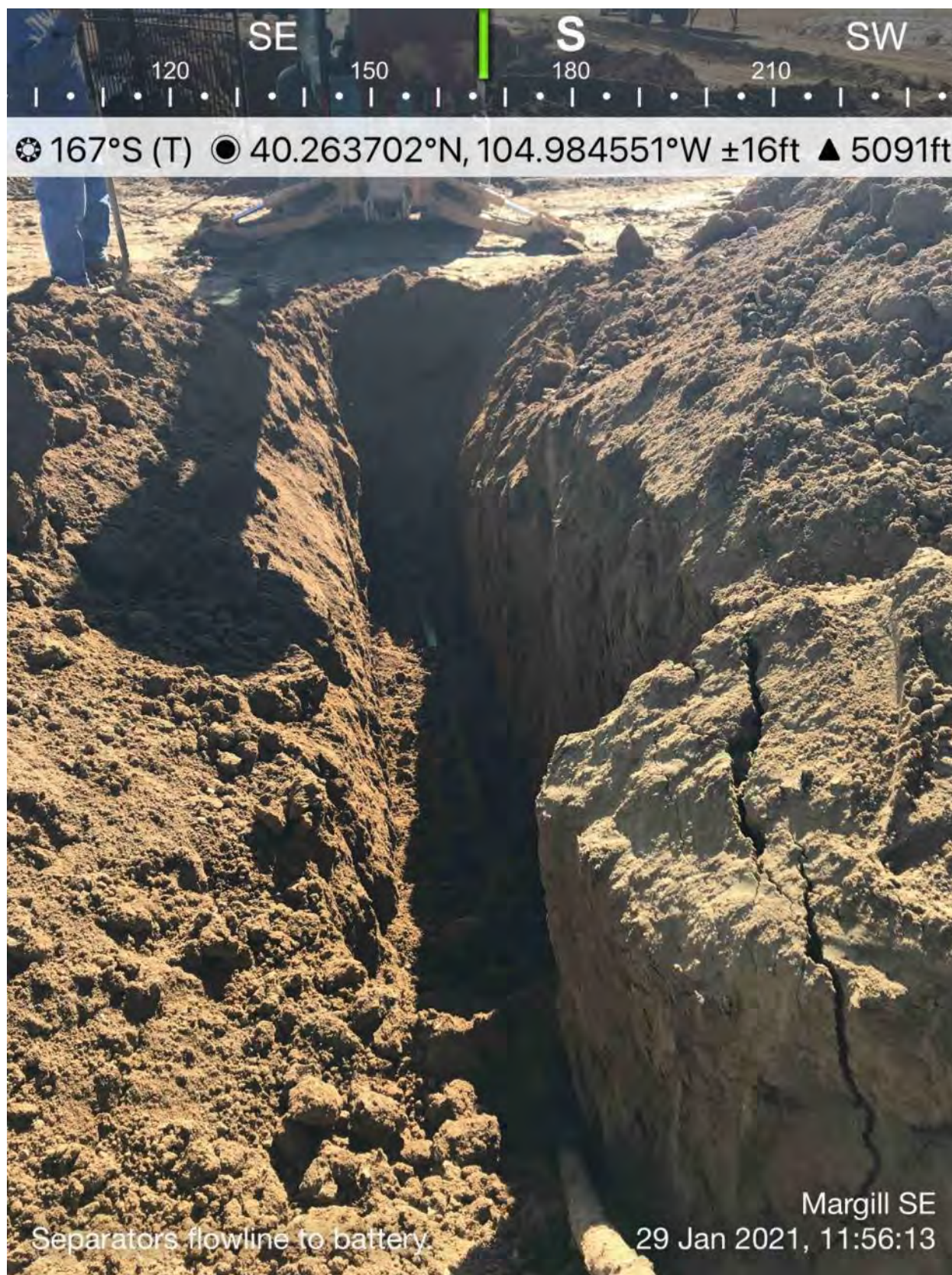
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ATTACHMENT B
FIELD CHECKLISTS

Tank Battery Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: <u>Morgil SE →</u>		Date: <u>4/27/88</u> <u>1/26/21</u>					Remediation Project #: <u>16322</u>	
Associated Wells: <u>34TD, 34PD, 34-34D</u>		Age of Site: <u>2012</u>					Number of Photos Attached: <u>526</u> for	
Location: (GPS coordinate of southeast corner) <u>40.263261° N -104.984334° W</u>							Estimated Facility Size (acres): <u>1.5</u>	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <u>Overall great condition</u>								
USCS Soil Type: <u>GP, CL, ML</u>					Estimated Depth to Groundwater: <u>50 ft - bgs</u>			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <u>None visually. Analytical exceedance at SS2-1, <10 yd³ removed.</u>								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <u>None</u>								
Tanks								
Tank Contents	<u>Crude</u>	<u>Crude</u>	<u>Crude</u>	<u>Crude</u>	<u>Crude</u>	<u>Crude</u>	<u>Crude</u>	
Size (barrels)	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	
Age								
Construction	<u>Steel</u>	<u>Steel</u>	<u>Steel</u>	<u>Steel</u>	<u>Steel</u>	<u>Steel</u>	<u>Steel</u>	
Tank type	<u>AST</u>	<u>AST</u>	<u>AST</u>	<u>AST</u>	<u>AST</u>	<u>AST</u>	<u>AST</u>	
Visual Integrity	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	
Condition of tank	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	
PID Readings	<u>0</u>	<u>1.2</u>	<u>20</u>	<u>5.2</u>	<u>5.4</u>	<u>5.6</u>	<u>3.0</u>	
Soil impacts present at valves or hatch box?	<u>No</u>	<u>yes</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	
PID Readings	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	
Sample taken? Location/ Sample ID#	<u>SS1-1</u>	<u>SS2-1</u>	<u>SS3-1</u>	<u>SS4-1</u>	<u>SS5-1</u>	<u>SS6-1</u>	<u>SS7-1</u>	
Photo Number(s)	<u>5-6</u>	<u>7,9</u>	<u>8,11</u>	<u>10,12</u>	<u>14-15</u>	<u>17,19</u>	<u>18,20</u>	
Other observations regarding tanks: <u><10 yd³ impacted soil removed at SS2-1</u>								
Separators								
Separator size	<u>10</u>	<u>15</u>	<u>10</u>	<u>15</u>				
Vertical or Horizontal	<u>H</u>	<u>H</u>	<u>H</u>	<u>H</u>				
Age								
Soil impacts	<u>No</u>	<u>yes</u>	<u>No</u>	<u>No</u>				
PID Readings	<u>5.1</u>	<u>989.1</u>	<u>5.1</u>	<u>4.9</u>				
Sample taken? Location/ Sample ID#	<u>SS8-1</u>	<u>SS9</u>	<u>SS14-1</u>	<u>SS15-1</u>				
Photo Number(s)	<u>23</u>	<u>34,39-45</u>	<u>35</u>	<u>36</u>				
Other observations regarding separators: <u>Approx 23 yd³ removed at SS9, reported as separate F19.</u>								
Third Party Equipment								
Type	<u>Motor Shed</u>							
Age	<u>-</u>							

Third Party	DGP								
Removal Date	08/2/11								
Sample taken?	No								
PID Readings	0								
Photo Number(s)	21								

Other Facility Equipment

Equipment type	Field Compressor								
Equipment	Good								
Age	Unk.								
Soil impacts	No								
PID Readings	0								
Sample taken?	No								
Photo Number(s)	22								

Other observations regarding other facility or third party equipment:

None

Summary

Was impacted soil identified?		No	Yes, less than 10 cubic yards	Yes, more than 10 cubic yards
Total number of samples field screened:		38	Total number of samples collected: 20 19	
Highest PID Reading:		989.1	Total number of samples submitted to lab for analysis: 20 19	
If more than 10 cubic yards of impacted soil were observed:				
Vertical extent:		26 ft-bgs	Estimated spill volume: Unknown	
Lateral extent:		13' x 11'	Volume of soil removed: 23 yd ³	
Is additional investigation required?		No		
Was groundwater encountered during the investigation?				
(No) Yes - not impacted or in contact with impacted soils		Yes - groundwater impacted and/or in contact with impacted soils		
Measured depth to groundwater:		NA	Was remedial groundwater removal conducted? Yes No NA	
Date Groundwater was encountered:			Commencement date of removal:	
Sheen on groundwater?		Yes No	Volume of groundwater removed prior to sampling:	
Free product observed?		Yes No	Volume of groundwater removed post sampling:	
Total number of samples collected:			Total Volume of groundwater removed:	
Total number of samples submitted to lab for analysis:				

Buried or Partially Buried Vessel Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional)		Pit Closure		Wellhead Closure		Flowline Closure		Tank Battery Closure
Site Name & COGCC Facility Number: <u>Macy 1 SE →</u>		Date: <u>4/27/21</u>				Remediation Project #: <u>16322</u>		
Associated Wells: <u>34TD, 34PD, 34-34D</u>		Age of Site: <u>2012</u>				Number of Photos Attached: <u>see log</u>		
Location: (GPS coordinates of vault or southeastern tank berm for multiple)						Estimated Facility Size (acres): <u>1.5</u>		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <div style="text-align: center; font-size: 1.2em;">overall great condition</div>								
USCS Soil Type: <u>GP, CL, ML</u>				Estimated Depth to Groundwater: <u>50 ft-bys</u>				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed								
Buried or Partially Buried Vessels								
Tank Contents	<u>PW</u>	<u>PW</u>						
Size (barrels)	<u>250</u>	<u>250</u>						
Age	<u>-</u>	<u>-</u>						
Construction	<u>fiberglass</u>	<u>fiberglass</u>						
Visual Integrity	<u>good</u>	<u>good</u>						
Condition of tank	<u>good</u>	<u>good</u>						
PID Readings	<u>3.6</u>	<u>0.1</u>						
Condition of	<u>-</u>	<u>-</u>						
PID Readings	<u>-</u>	<u>-</u>						
Sample taken?	<u>SS10, SS12</u>	<u>SS11, SS13</u>						
Location Sample	<u>1111</u>							
Photo Number(s)	<u>26-33</u>	<u>26-33</u>						
Other observations regarding partially buried vessels:								
Inorganics reported at 7 ft-bys, interpreted as native levels								
Summary								
Was impacted soil identified?								
No <input type="radio"/> Yes <input checked="" type="radio"/> less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: <u>8</u>				Total number of samples collected: <u>4</u>				
Highest PID Reading: <u>3.6</u>				Total number of samples submitted to lab for analysis: <u>4</u>				
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent: <u>NA</u>				Estimated spill volume: <u>NA</u>				
Lateral extent: <u>NA</u>				Volume of soil removed: <u>NA</u>				
Is additional investigation required?								
No								
Was groundwater encountered during the investigation?								
No <input checked="" type="radio"/> Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater: <u>NA</u>				Was remedial groundwater removal conducted? Yes No <u>NA</u>				
Date Groundwater was encountered:				Commencement date of removal:				
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:				
Free product observed? Yes No				Volume of groundwater removed post sampling:				
Total number of samples collected:				Total Volume of groundwater removed:				
Total number of samples submitted to lab for analysis: <u>✓</u>				<u>✓</u>				

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional)		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure																																																						
Site Name & COGCC Facility Number: Marg 1 SE 427888		Date: 2/11/21						Remediation Project #: 16322																																																						
Associated Wells: 34TD, 34PD, 34-34D		Age of Site: 2012						Number of Photos Attached: see log																																																						
Location: GPS coordinates of wellhead or southeastern most wellhead for multiple: 40.264072°N, -104.0184295°W								Estimated Facility Size (acres): 1.5																																																						
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Overall great condition																																																														
USCS Soil Type: GP, CL, ML				Estimated Depth to Groundwater: 50 ft-bgs																																																										
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) none observed																																																														
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed																																																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">Wellhead</th> <th style="width: 20%;">34TD</th> <th style="width: 20%;">34PD</th> <th style="width: 20%;">Wellhead(s)</th> <th style="width: 20%;">34-34D</th> <th style="width: 15%;">(W)</th> </tr> <tr> <td>Well/API</td> <td>123-35159</td> <td>123-35152</td> <td></td> <td>123-35167</td> <td></td> </tr> <tr> <td>Age</td> <td>2011</td> <td>2011</td> <td></td> <td>2011</td> <td></td> </tr> <tr> <td>Condition of surface around wellhead</td> <td>Great</td> <td>Great</td> <td>(X)</td> <td>Great</td> <td></td> </tr> <tr> <td>PID Readings</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> </tr> <tr> <td>Condition of subsurface (assuming recent)</td> <td>Great</td> <td>Great</td> <td></td> <td>Great</td> <td></td> </tr> <tr> <td>PID Readings</td> <td>2.8</td> <td>2.2</td> <td>(X)</td> <td>7.6</td> <td></td> </tr> <tr> <td>Sample taken? Location/Sample ID</td> <td>SS22-1</td> <td>SS21-1</td> <td></td> <td>SS20-1</td> <td></td> </tr> <tr> <td>Photo Number(s)</td> <td>64</td> <td>62</td> <td></td> <td>62</td> <td></td> </tr> </table>									Wellhead	34TD	34PD	Wellhead(s)	34-34D	(W)	Well/API	123-35159	123-35152		123-35167		Age	2011	2011		2011		Condition of surface around wellhead	Great	Great	(X)	Great		PID Readings	-	-		-		Condition of subsurface (assuming recent)	Great	Great		Great		PID Readings	2.8	2.2	(X)	7.6		Sample taken? Location/Sample ID	SS22-1	SS21-1		SS20-1		Photo Number(s)	64	62		62	
Wellhead	34TD	34PD	Wellhead(s)	34-34D	(W)																																																									
Well/API	123-35159	123-35152		123-35167																																																										
Age	2011	2011		2011																																																										
Condition of surface around wellhead	Great	Great	(X)	Great																																																										
PID Readings	-	-		-																																																										
Condition of subsurface (assuming recent)	Great	Great		Great																																																										
PID Readings	2.8	2.2	(X)	7.6																																																										
Sample taken? Location/Sample ID	SS22-1	SS21-1		SS20-1																																																										
Photo Number(s)	64	62		62																																																										
Other observations regarding wellheads: None, lines pulled from separator area																																																														
Summary																																																														
Was impacted soil identified? (No) Yes - less than 10 cubic yards Yes - more than 10 cubic yards																																																														
Total number of samples field screened: 11				Total number of samples collected: 3																																																										
Highest PID Reading: 14.0				Total number of samples submitted to lab for analysis: 3																																																										
If more than 10 cubic yards of impacted soil were observed:																																																														
Vertical extent: NA				Estimated spill volume: NA																																																										
Lateral extent: ↓				Volume of soil removed: ↓																																																										
Is additional investigation required?																																																														
Was groundwater encountered during the investigation? (No) Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils																																																														
Measured depth to groundwater: NA				Was remedial groundwater removal conducted? Yes No NA																																																										
Date Groundwater was encountered:				Commencement date of removal:																																																										
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:																																																										
Free product observed? Yes No				Volume of groundwater removed post sampling:																																																										
Total number of samples collected:				Total Volume of groundwater removed:																																																										
Total number of samples submitted to lab for analysis:																																																														

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:	Tank Battery Closure	Wellhead Closure	Pit Closure	Partially Buried Vault Closure
Site Name & COGCC Facility Number: <u>Margyl SE</u> →	Date: <u>1/28/21 - 1/29/21</u>	Remediation Project #: <u>16322</u>		
Associated Wells: <u>34TD, 34PD, 34-34D</u>	Age of Site: <u>2012</u>	Number of Photos Attached: <u>See log</u>		
Starting point: (GPS coordinates and descriptions) <u>(SE Berm) 40.263261°N, -104.984334°W</u>				
End point: (GPS coordinates and descriptions) <u>NA</u>				
USCS Soil Type: <u>GP, CL, ML</u>		Estimated Depth to Groundwater: <u>50 ft-bgs</u>		
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <u>None observed</u>				
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <u>None observed</u>				
Flowlines				
Flowline type	<u>Cinder</u>	<u>PW</u>	<u>Gas</u>	
Depth	<u>3-4'</u>	<u>3-4'</u>	<u>3-4'</u>	
Age	<u>-</u>	<u>-</u>	<u>-</u>	
Length	<u>-</u>	<u>-</u>	<u>-</u>	
Construction Material	<u>Steel</u>	<u>Poly</u>	<u>Poly</u>	
Were flowlines pulled?	<u>yes</u>	<u>yes</u>	<u>yes</u>	
Visual Integrity of lines	<u>Good</u>	<u>Good</u>	<u>Good</u>	
Visual impacts if trenched	<u>None</u>	<u>None</u>	<u>None</u>	
PID Readings if trenched	<u><6</u>	<u><6</u>	<u><6</u>	
Sample taken? Location/Sample ID#	<u>No</u>	<u>No</u>	<u>No</u>	
Photo Number(s)	<u>46-48, 53-56</u>			
Other observations regarding on location flowlines: <u>None</u>				
Summary				
Was impacted soil identified? <u>(No)</u> Yes - less than 10 cubic yards Yes - more than 10 cubic yards				
Total number of samples field screened: <u>8</u>		Total number of samples collected: <u>0</u>		
Highest PID Reading: <u>0.7</u>		Total number of samples submitted to lab for analysis: <u>0</u>		
If more than 10 cubic yards of impacted soil were observed:				
Vertical extent: <u>NA</u>		Estimated spill volume: <u>NA</u>		
Lateral extent: <u>NA</u>		Volume of soil removed: <u>NA</u>		
Is additional investigation required? <u>No</u>				
Was groundwater encountered during the investigation? <u>(No)</u> Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils				
Measured depth to groundwater: <u>NA</u>		Was remedial groundwater removal conducted? Yes <u>NA</u> No		
Date Groundwater was encountered:		Commencement date of removal:		
Sheen on groundwater? Yes No		Volume of groundwater removed prior to sampling:		
Free product observed? Yes No		Volume of groundwater removed post sampling:		
Total number of samples collected:		Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:				

ATTACHMENT C
ANALYTICAL REPORTS



February 05, 2021

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Margil SE

Project Number - 020-006

Attached are your analytical results for Margil SE received by Origins Laboratory, Inc. January 26, 2021. This project is associated with Origins project number Y101294-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG1-1	Y101294-01	Soil	January 26, 2021 8:36	01/26/2021 16:00
SS1-1	Y101294-02	Soil	January 26, 2021 8:50	01/26/2021 16:00
SS2-1	Y101294-03	Soil	January 26, 2021 8:55	01/26/2021 16:00
SS3-1	Y101294-04	Soil	January 26, 2021 9:10	01/26/2021 16:00
SS4-1	Y101294-05	Soil	January 26, 2021 9:18	01/26/2021 16:00
SS5-1	Y101294-06	Soil	January 26, 2021 9:33	01/26/2021 16:00
SS6-1	Y101294-07	Soil	January 26, 2021 10:00	01/26/2021 16:00
SS7-1	Y101294-08	Soil	January 26, 2021 10:20	01/26/2021 16:00
SS8-1	Y101294-09	Soil	January 26, 2021 10:46	01/26/2021 16:00
SS10-7	Y101294-10	Soil	January 26, 2021 12:45	01/26/2021 16:00
SS11-7	Y101294-11	Soil	January 26, 2021 13:00	01/26/2021 16:00
SS12-4	Y101294-12	Soil	January 26, 2021 13:10	01/26/2021 16:00
SS13-4	Y101294-13	Soil	January 26, 2021 13:15	01/26/2021 16:00
SS14-1	Y101294-14	Soil	January 26, 2021 13:25	01/26/2021 16:00

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS15-1	Y101294-15	Soil	January 26, 2021 13:30	01/26/2021 16:00

Per Ben on 01/28/21, sample BG1-1 taken off hold for pH, EC, boron, and SAR (saturated paste prep). JEP

Per the email from Ben on 02/02/21, Arsenic was added to sample BG1-1 on a three day TAT. JEP

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: 020-006
Project: Margil SE

www.originslab.com
410294
page 1 of 2

ORIGINS
LABORATORY, INC

Client: Entrada Consulting Group
Address: NA
Project Manager: Ben Baugh
Project Name: Margil SE
Project Number: 020-006
Telephone Number: 804-513-0707
Email Address: bbaugh@entradaconsult.com
Samples Collected By: Ben Baugh
Bill to Jason Davidson at GWOC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Alt Source #	Other	BTEXN	TPH		EC/SAP
B6-1	1/24/21	836	3					X					X	Total pending results!
S51-1		850	1										X	
S52-1		855	1										X	
S53-1		910	1										X	
S54-1		918	1										X	
S55-1		933	1										X	
S56-1		1000	1										X	
S57-1		1020	1										X	
S58-1		1046	1										X	
S59-7	✓ 1/24/21	1245	3										X	
Relinquished By: <i>[Signature]</i>	Date: 1/26/21	Time: 1600		Received By: <i>[Signature]</i>	Date: 1/26/21	Time: 1600		Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard						

Temp Received: 0.1 Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Margil SE

[illegible]

Origins Laboratory, Inc.

Jeff Pellgrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Origins Laboratory

Sample Receipt Checklist

F-012207-01-R1
Effective Date: 01/09/12

Origins Work Order: Y101294

Client: Entrada

Client Project ID: Margil SE

Checklist Completed by: dm

Shipped Via: HTD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1-26-21

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 0.8 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: dm (Project Manager)

Date/Time Reviewed: 1-27-21

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

BG1-1

1/26/2021 8:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc. Y101294-01 (Soil)

Boron (Sorbitol)

Boron	0.6	mg/L	1	[none]		01/28/2021	02/01/2021
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Metals (Saturated Paste Prep)

Calcium	2.12	me/L	1	[none]		"	02/01/2021
Magnesium	0.94	"	"	"		"	"
Sodium	0.40	"	"	"		"	"

pH in Soil by EPA 9045D

pH	8.37	pH Units	1	B1A2806	KDK	01/28/2021	01/28/2021
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SAR by 20B Saturated Paste

SAR	0.32		1	[none]		01/28/2021	02/01/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.633	0.00500	mmhos/cm	1	B1A2807	KDK	01/28/2021	01/28/2021
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Total Metals by 6020A

Arsenic	3.88	0.25	mg/Kg	5	L534832		02/04/2021	02/04/2021
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS1-1

1/26/2021 8:50:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101294-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2605	KDK	01/26/2021	01/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 84.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2611	KDK	01/26/2021	01/26/2021	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "

Surrogate: Toluene-d8 98.2 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS2-1

1/26/2021 8:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
Y101294-03 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	375	50.0	mg/kg	1	B1A2605	KDK	01/26/2021	01/26/2021	
Residual Range Organics (C28-C40)	575	200	"	"	"	KDK	"	"	

Surrogate: o-Terphenyl	100 %	50-150			"	"	"	
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GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	0.322	0.200	mg/kg	1	B1A2611	KDK	01/26/2021	01/26/2021	
Benzene	0.002	0.002	"	"	"	KDK	"	"	
Toluene	0.003	0.002	"	"	"	KDK	"	"	
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS3-1

1/26/2021 9:10:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101294-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2605	KDK	01/26/2021	01/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 85.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2.73	0.200	mg/kg	1	B1A2611	KDK	01/26/2021	01/26/2021	
Benzene	0.083	0.002	"	"	"	KDK	"	"	
Toluene	0.187	0.002	"	"	"	KDK	"	"	
Ethylbenzene	0.020	0.002	"	"	"	KDK	"	"	
Xylenes, total	0.131	0.002	"	"	"	KDK	"	"	
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "

Surrogate: Toluene-d8 97.9 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 111 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS4-1

1/26/2021 9:18:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101294-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2605	KDK	01/26/2021	01/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 95.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	0.575	0.200	mg/kg	1	B1A2611	KDK	01/26/2021	01/26/2021	
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	0.002	0.002	"	"	"	KDK	"	"	
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "

Surrogate: Toluene-d8 99.2 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 111 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS5-1

1/26/2021 9:33:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101294-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2605	KDK	01/26/2021	01/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 90.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	0.240	0.200	mg/kg	1	B1A2611	KDK	01/26/2021	01/26/2021	
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	0.002	0.002	"	"	"	KDK	"	"	
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	0.005	0.002	"	"	"	KDK	"	"	
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "

Surrogate: Toluene-d8 98.2 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS6-1

1/26/2021 10:00:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101294-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	73.9	50.0	mg/kg	1	B1A2605	KDK	01/26/2021	01/26/2021	
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 94.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1.89	0.200	mg/kg	1	B1A2604	TEM	01/26/2021	01/26/2021	
Benzene	0.005	0.002	"	"	"	TEM	"	"	
Toluene	0.004	0.002	"	"	"	TEM	"	"	
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	0.011	0.002	"	"	"	TEM	"	"	
Naphthalene	0.010	0.008	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 98.5 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS7-1

1/26/2021 10:20:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101294-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2703	KDK	01/26/2021	01/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 106 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	0.528	0.200	mg/kg	1	B1A2604	TEM	01/26/2021	01/26/2021	
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.002	"	"	"	TEM	"	"	U
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 96.0 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS8-1

1/26/2021 10:46:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101294-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2703	KDK	01/26/2021	01/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 92.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2604	TEM	01/26/2021	01/26/2021	U
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.002	"	"	"	TEM	"	"	U
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "

Surrogate: Toluene-d8 102 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 97.2 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS10-7

1/26/2021 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc. Y101294-10 (Soil)

Boron (Sorbitol)

Boron	1.6		mg/L	1	[none]		01/28/2021	02/01/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2605	KDK	01/26/2021	01/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	90.3 %	50-150			"	"	"	
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GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2604	TEM	01/26/2021	01/26/2021	U
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.002	"	"	"	TEM	"	"	U
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.2 %	70-130			"	"	"

Metals (Saturated Paste Prep)

Calcium	12.21		me/L	1	[none]		01/28/2021	02/01/2021
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Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS10-7

1/26/2021 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.

Y101294-10 (Soil)

Metals (Saturated Paste Prep)

Magnesium	27.37		me/L	1	[none]		01/28/2021	02/01/2021	
Sodium	26.89		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	7.90		pH Units	1	B1A2707	DJL	01/27/2021	01/27/2021	
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SAR by 20B Saturated Paste

SAR	6.04			1	[none]		01/28/2021	02/01/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	7.57	0.00500	mmhos/cm	1	B1A2708	DJL	01/27/2021	01/27/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS11-7

1/26/2021 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc. Y101294-11 (Soil)

Boron (Sorbitol)

Boron	2.0		mg/L	1	[none]		01/28/2021	02/01/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2605	KDK	01/26/2021	01/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	88.7 %	50-150			"	"	"	
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GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2604	TEM	01/26/2021	01/26/2021	U
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.002	"	"	"	TEM	"	"	U
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"

Metals (Saturated Paste Prep)

Calcium	3.73		me/L	1	[none]		01/28/2021	02/01/2021
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Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS11-7

1/26/2021 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc. Y101294-11 (Soil)

Metals (Saturated Paste Prep)

Magnesium	7.79		me/L	1	[none]		01/28/2021	02/01/2021	
Sodium	14.61		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	7.96		pH Units	1	B1A2707	DJL	01/27/2021	01/27/2021	
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SAR by 20B Saturated Paste

SAR	6.09			1	[none]		01/28/2021	02/01/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.79	0.00500	mmhos/cm	1	B1A2708	DJL	01/27/2021	01/27/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS12-4

1/26/2021 1:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101294-12 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2605	KDK	01/26/2021	01/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 101 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2604	TEM	01/26/2021	01/26/2021	U
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.002	"	"	"	TEM	"	"	U
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "

Surrogate: Toluene-d8 102 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS13-4

1/26/2021 1:15:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101294-13 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2605	KDK	01/26/2021	01/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 88.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2604	TEM	01/26/2021	01/26/2021	U
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.002	"	"	"	TEM	"	"	U
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS14-1

1/26/2021 1:25:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101294-14 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2703	KDK	01/26/2021	01/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 90.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2604	TEM	01/26/2021	01/26/2021	U
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.002	"	"	"	TEM	"	"	U
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.2 % 70-130 " " "

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS15-1

1/26/2021 1:30:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101294-15 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	122	50.0	mg/kg	1	B1A2703	KDK	01/26/2021	01/26/2021	
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 100 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	0.430	0.200	mg/kg	1	B1A2604	TEM	01/26/2021	01/26/2021	
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	0.002	0.002	"	"	"	TEM	"	"	
Xylenes, total	0.018	0.002	"	"	"	TEM	"	"	
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "

Surrogate: Toluene-d8 102 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 99.0 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1A2604 - EPA 5030 (soil)										
Blank (B1A2604-BLK1)					Prepared: 01/26/2021 Analyzed: 01/26/2021					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1A2604 - EPA 5030 (soil)										
LCS (B1A2604-BS1)					Prepared: 01/26/2021 Analyzed: 01/26/2021					
Benzene	0.043	0.002	mg/kg	0.0500		86.1	70-130			
Toluene	0.047	0.002	"	0.0500		93.6	70-130			
Ethylbenzene	0.049	0.002	"	0.0500		97.6	70-130			
m,p-Xylene	0.103	0.004	"	0.100		103	70-130			
o-Xylene	0.051	0.002	"	0.0500		102	70-130			
Naphthalene	0.044	0.008	"	0.0500		88.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2604 - EPA 5030 (soil)

Matrix Spike (B1A2604-MS1)		Source: Y101263-01			Prepared: 01/26/2021 Analyzed: 01/26/2021					
Benzene	0.048	0.002	mg/kg	0.0500	ND	95.2	70-130			
Toluene	0.050	0.002	"	0.0500	ND	100	70-130			
Ethylbenzene	0.052	0.002	"	0.0500	ND	104	70-130			
m,p-Xylene	0.111	0.004	"	0.100	ND	111	70-130			
o-Xylene	0.058	0.002	"	0.0500	ND	115	70-130			
Naphthalene	0.057	0.008	"	0.0500	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2604 - EPA 5030 (soil)

Matrix Spike Dup (B1A2604-MSD1)		Source: Y101263-01			Prepared: 01/26/2021 Analyzed: 01/26/2021					
Benzene	0.052	0.002	mg/kg	0.0500	ND	105	70-130	9.41	20	
Toluene	0.056	0.002	"	0.0500	ND	111	70-130	10.2	20	
Ethylbenzene	0.058	0.002	"	0.0500	ND	115	70-130	10.3	20	
m,p-Xylene	0.123	0.004	"	0.100	ND	123	70-130	9.47	20	
o-Xylene	0.063	0.002	"	0.0500	ND	127	70-130	9.41	20	
Naphthalene	0.060	0.008	"	0.0500	ND	119	70-130	4.64	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1A2605 - EPA 3550B										
Blank (B1A2605-BLK1)					Prepared: 01/26/2021 Analyzed: 01/26/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	25.0		99.1	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2605 - EPA 3550B

LCS (B1A2605-BS1)

Prepared: 01/26/2021 Analyzed: 01/26/2021

Diesel (C10-C28)	981	50.0	mg/kg	1000		98.1	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	57		"	50.0		114	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2605 - EPA 3550B

Matrix Spike (B1A2605-MS1)		Source: Y101282-01			Prepared: 01/26/2021 Analyzed: 01/26/2021					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	116	96.2	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130			
Surrogate: o-Terphenyl	55		"	50.0		110	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2605 - EPA 3550B

Matrix Spike Dup (B1A2605-MSD1)		Source: Y101282-01			Prepared: 01/26/2021 Analyzed: 01/26/2021					
Diesel (C10-C28)	978	50.0	mg/kg	1000	116	86.2	70-130	9.74	35	
Residual Range Organics (C28-C40)	897	200	"	1000	ND	89.7	70-130	12.5	35	
Surrogate: o-Terphenyl	46		"	50.0		92.1	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1A2611 - EPA 5030 (soil)										
Blank (B1A2611-BLK1)					Prepared: 01/26/2021 Analyzed: 01/26/2021					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2611 - EPA 5030 (soil)

LCS (B1A2611-BS1)

Prepared: 01/26/2021 Analyzed: 01/26/2021

Benzene	0.057	0.002	mg/kg	0.0500		115	70-130			
Toluene	0.051	0.002	"	0.0500		103	70-130			
Ethylbenzene	0.054	0.002	"	0.0500		108	70-130			
m,p-Xylene	0.109	0.004	"	0.100		109	70-130			
o-Xylene	0.053	0.002	"	0.0500		107	70-130			
Naphthalene	0.048	0.008	"	0.0500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2611 - EPA 5030 (soil)

Matrix Spike (B1A2611-MS1)		Source: Y101294-05			Prepared: 01/26/2021 Analyzed: 01/26/2021					
Benzene	0.059	0.002	mg/kg	0.0500	0.0008	117	70-130			
Toluene	0.053	0.002	"	0.0500	0.002	102	70-130			
Ethylbenzene	0.053	0.002	"	0.0500	ND	106	70-130			
m,p-Xylene	0.108	0.004	"	0.100	ND	108	70-130			
o-Xylene	0.053	0.002	"	0.0500	0.0003	105	70-130			
Naphthalene	0.047	0.008	"	0.0500	0.001	92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2611 - EPA 5030 (soil)

Matrix Spike Dup (B1A2611-MSD1)		Source: Y101294-05			Prepared: 01/26/2021 Analyzed: 01/26/2021					
Benzene	0.057	0.002	mg/kg	0.0500	0.0008	112	70-130	3.73	20	
Toluene	0.051	0.002	"	0.0500	0.002	98.0	70-130	4.01	20	
Ethylbenzene	0.051	0.002	"	0.0500	ND	101	70-130	4.60	20	
m,p-Xylene	0.102	0.004	"	0.100	ND	102	70-130	5.20	20	
o-Xylene	0.050	0.002	"	0.0500	0.0003	100	70-130	5.30	20	
Naphthalene	0.046	0.008	"	0.0500	0.001	88.6	70-130	3.66	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2703 - EPA 3550B

Blank (B1A2703-BLK1)

Prepared: 01/27/2021 Analyzed: 01/27/2021

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	55		"	50.0		110	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2703 - EPA 3550B

LCS (B1A2703-BS1)

Prepared: 01/27/2021 Analyzed: 01/27/2021

Diesel (C10-C28)	930	50.0	mg/kg	1000		93.0	70-130			
Residual Range Organics (C28-C40)	947	200	"	1000		94.7	70-130			
Surrogate: o-Terphenyl	53		"	50.0		106	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2703 - EPA 3550B

Matrix Spike (B1A2703-MS1)		Source: Y101294-15			Prepared: 01/27/2021 Analyzed: 01/27/2021					
Diesel (C10-C28)	937	50.0	mg/kg	1000	122	81.5	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	162	86.0	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.4	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2703 - EPA 3550B

Matrix Spike Dup (B1A2703-MSD1)		Source: Y101294-15			Prepared: 01/27/2021 Analyzed: 01/27/2021					
Diesel (C10-C28)	966	50.0	mg/kg	1000	122	84.4	70-130	3.06	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	162	88.5	70-130	2.36	35	
Surrogate: o-Terphenyl	49		"	50.0		97.9	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2707 - NO PREP

Duplicate (B1A2707-DUP1)

Source: Y101288-01

Prepared: 01/27/2021 Analyzed: 01/27/2021

pH	7.08		pH Units	7.30		3.06	25
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Batch B1A2708 - NO PREP

Blank (B1A2708-BLK1)

Prepared: 01/27/2021 Analyzed: 01/27/2021

Specific Conductance (EC)	0.00430	0.00500	mmhos/cm
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Duplicate (B1A2708-DUP1)

Source: Y101288-01

Prepared: 01/27/2021 Analyzed: 01/27/2021

Specific Conductance (EC)	0.293	0.00500	mmhos/cm	0.250		15.8	25
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Batch B1A2806 - NO PREP

Duplicate (B1A2806-DUP1)

Source: Y101309-01

Prepared: 01/28/2021 Analyzed: 01/28/2021

pH	13.0		pH Units	13.0		0.154	25
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Batch B1A2807 - NO PREP

Blank (B1A2807-BLK1)

Prepared: 01/28/2021 Analyzed: 01/28/2021

Specific Conductance (EC)	0.00190	0.00500	mmhos/cm
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Duplicate (B1A2807-DUP1)

Source: Y101309-01

Prepared: 01/28/2021 Analyzed: 01/28/2021

Specific Conductance (EC)	14.9	0.00500	mmhos/cm	14.5		2.69	25
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Total Metals by 6020A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L534832 - 3050B										
MSD (L 92528-MSD-L534832)			Source: Y101294-01		Prepared: 02/04/2021 Analyzed: 02/04/2021					
Arsenic	5.36	0.0629	mg/Kg	2.49	3.88	60	75-125	2.7	20	*
MS (L 92528-MS-L534832)			Source: Y101294-01		Prepared: 02/04/2021 Analyzed: 02/04/2021					
Arsenic	5.51	0.0629	mg/Kg	2.48	3.88	66	75-125			*
LCS (LCS-L534832)			Prepared: 02/04/2021 Analyzed: 02/04/2021							
Arsenic	2.15	0.0629	mg/Kg	2.5		86	80-120			
LRB (LRB-L534832)			Prepared: 02/04/2021 Analyzed: 02/04/2021							
Arsenic	ND	0.25	mg/Kg				-			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: 020-006
Project: Margil SE

Notes and Definitions

U Sample is Non-Detect.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager



February 02, 2021

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Margil SE

Project Number - 020-006

Attached are your analytical results for Margil SE received by Origins Laboratory, Inc. January 27, 2021. This project is associated with Origins project number Y101315-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS9-6	Y101315-01	Soil	January 27, 2021 10:40	01/27/2021 15:20
SS16-3	Y101315-02	Soil	January 27, 2021 10:50	01/27/2021 15:20
SS17-3	Y101315-03	Soil	January 27, 2021 10:54	01/27/2021 15:20
SS18-3	Y101315-04	Soil	January 27, 2021 11:10	01/27/2021 15:20
SS19-3	Y101315-05	Soil	January 27, 2021 11:15	01/27/2021 15:20

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: 020-006
Project: Margil SE

Client: Entrada Consulting Group
Address: NA
Telephone Number: 804-513-0707
Email Address: bbaugh@entrada.com
Project Manager: Ben Baugh
Project Name: Margil SE
Project Number: 020-006
Samples Collected By: Ben Baugh
Bill to Jason Davidson at GUDC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa			Canister #
SS9-6	1/27	10:40	5						X				1
SS16-3	1/27	10:50	5						X				2
SS17-3	1/27	10:54	5						X				3
SS18-3	1/27	11:10	5						X				4
SS19-3	1/27	11:15	5						X				5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Ben Baugh	1/27/21	13:20	[Signature]	1/27/21	15:25	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

Temp Received: 26

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y101325

Client: Entrada

Client Project ID: Margil SE

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/27/21

Airbill #: N/A

Matrix(s) Received: (Check all that apply):

☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 12.6 °C

1 °C

1 °C

1 °C

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 5°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date, time and person contacted as well as the corrective action to be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager): [Signature]

Date/Time Reviewed: 1/27/21

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS9-6

1/27/2021 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc. Y101315-01 (Soil)

Boron (Sorbitol)

Boron	0.7		mg/L	1	[none]		01/28/2021	02/01/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2703	KDK	01/27/2021	01/27/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	102 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1A2702	KDK	01/27/2021	01/27/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS9-6

1/27/2021 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc. Y101315-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.33		me/L	1	[none]		01/28/2021	02/01/2021	
Magnesium	1.28		"	"	"		"	"	
Sodium	1.79		"	"	"		"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000752	0.00067	mg/Kg	1	L533679		"	01/28/2021	
2-Methylnaphthalene	0.00151	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000216	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	0.000362	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS9-6

1/27/2021 10:40:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y101315-01 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	68.7 %	33-115			L5336 79	01/28/2021	01/28/2021
Surrogate: 4-Terphenyl-d14	68.7 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	63.9 %	29-110			"	"	"

pH in Soil by EPA 9045D

pH	8.52	pH Units	1	B1A2806	KDK	01/28/2021	01/28/2021
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SAR by 20B Saturated Paste

SAR	1.57		1	[none]		01/28/2021	02/01/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.591	0.00500	mmhos/cm	1	B1A2807	KDK	01/28/2021	01/28/2021
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Total Metals by EPA 6020B

Arsenic	3.08	0.25	mg/Kg	5	L533800	01/29/2021	01/29/2021
Barium	187	2.5	"	50	"	"	"
Cadmium	0.191	0.25	"	5	"	"	" J
Copper	11.7	0.25	"	"	"	"	"
Lead	10.5	0.25	"	"	"	"	"
Nickel	14.2	0.25	"	"	"	"	"
Selenium	0.337	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS9-6

1/27/2021 10:40:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Waypoint Analytical, Inc.

Y101315-01 (Soil)

Total Metals by EPA 6020B

Silver	0.0417	0.25	mg/Kg	5	L533800	01/29/2021	01/29/2021	J
Zinc	48.8	2.5	"	"	"	"	"	

Total Metals by EPA 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L533832	01/27/2021	01/29/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS16-3

1/27/2021 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101315-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2703	KDK	01/27/2021	01/27/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 91.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2702	KDK	01/27/2021	01/27/2021	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	0.003	0.002	"	"	"	KDK	"	"	
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "

Surrogate: Toluene-d8 97.5 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS17-3

1/27/2021 10:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101315-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2703	KDK	01/27/2021	01/27/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 83.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2702	KDK	01/27/2021	01/27/2021	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "
 Surrogate: Toluene-d8 97.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS18-3

1/27/2021 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101315-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2703	KDK	01/27/2021	01/27/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 91.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2702	KDK	01/27/2021	01/27/2021	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	0.003	0.002	"	"	"	KDK	"	"	
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	0.007	0.002	"	"	"	KDK	"	"	
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "

Surrogate: Toluene-d8 97.2 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS19-3

1/27/2021 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101315-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2703	KDK	01/27/2021	01/27/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 88.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2702	KDK	01/27/2021	01/27/2021	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "

Surrogate: Toluene-d8 96.6 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2702 - EPA 5030 (soil)

Blank (B1A2702-BLK1)

Prepared: 01/27/2021 Analyzed: 01/27/2021

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
1,2,4-Trimethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
m,p-Xylene	ND	0.00400	"							U
o-Xylene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2702 - EPA 5030 (soil)

LCS (B1A2702-BS1)

Prepared: 01/27/2021 Analyzed: 01/27/2021

Benzene	0.045	0.002	mg/kg	0.0500		90.8	70-130			
Toluene	0.049	0.002	"	0.0500		97.6	70-130			
Ethylbenzene	0.053	0.002	"	0.0500		105	70-130			
m,p-Xylene	0.109	0.004	"	0.100		109	70-130			
o-Xylene	0.054	0.002	"	0.0500		109	70-130			
Naphthalene	0.047	0.008	"	0.0500		94.2	70-130			
1,2,4-Trimethylbenzene	0.0569	0.00200	"	0.0500		114	70-130			
Naphthalene	0.0471	0.0100	"	0.0500		94.2	70-130			
1,3,5-Trimethylbenzene	0.0541	0.00200	"	0.0500		108	70-130			
Benzene	0.0454	0.00200	"	0.0500		90.8	70-130			
Ethylbenzene	0.0527	0.00200	"	0.0500		105	70-130			
m,p-Xylene	0.109	0.00400	"	0.100		109	70-130			
o-Xylene	0.0545	0.00200	"	0.0500		109	70-130			
Toluene	0.0488	0.00200	"	0.0500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2702 - EPA 5030 (soil)

Matrix Spike (B1A2702-MS1)		Source: Y101310-01			Prepared: 01/27/2021 Analyzed: 01/27/2021					
Benzene	0.042	0.002	mg/kg	0.0500	ND	83.9	70-130			
Toluene	0.045	0.002	"	0.0500	0.001	87.2	70-130			
Ethylbenzene	0.045	0.002	"	0.0500	ND	90.4	70-130			
m,p-Xylene	0.095	0.004	"	0.100	0.001	93.5	70-130			
o-Xylene	0.047	0.002	"	0.0500	0.0005	93.8	70-130			
Naphthalene	0.046	0.008	"	0.0500	0.003	86.8	70-130			
1,2,4-Trimethylbenzene	0.0497	0.00200	"	0.0500	0.000560	98.2	70-130			
Naphthalene	0.0461	0.0100	"	0.0500	0.00268	86.8	70-130			
1,3,5-Trimethylbenzene	0.0470	0.00200	"	0.0500	ND	93.9	70-130			
Benzene	0.0420	0.00200	"	0.0500	ND	83.9	70-130			
Ethylbenzene	0.0452	0.00200	"	0.0500	0.000400	89.6	70-130			
m,p-Xylene	0.0946	0.00400	"	0.100	0.00108	93.5	70-130			
o-Xylene	0.0474	0.00200	"	0.0500	0.000520	93.8	70-130			
Toluene	0.0450	0.00200	"	0.0500	0.00134	87.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: 020-006
Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2702 - EPA 5030 (soil)

Matrix Spike Dup (B1A2702-MSD1)		Source: Y101310-01			Prepared: 01/27/2021 Analyzed: 01/27/2021					
Benzene	0.049	0.002	mg/kg	0.0500	ND	97.1	70-130	14.5	20	
Toluene	0.051	0.002	"	0.0500	0.001	100	70-130	13.3	20	
Ethylbenzene	0.052	0.002	"	0.0500	ND	104	70-130	13.6	20	
m,p-Xylene	0.109	0.004	"	0.100	0.001	108	70-130	13.8	20	
o-Xylene	0.054	0.002	"	0.0500	0.0005	107	70-130	13.2	20	
Naphthalene	0.055	0.008	"	0.0500	0.003	104	70-130	17.3	20	
1,2,4-Trimethylbenzene	0.0573	0.00200	"	0.0500	0.000560	114	70-130	14.3	20	
Naphthalene	0.0548	0.0100	"	0.0500	0.00268	104	70-130	17.3	20	
1,3,5-Trimethylbenzene	0.0541	0.00200	"	0.0500	ND	108	70-130	14.2	20	
Benzene	0.0485	0.00200	"	0.0500	ND	97.1	70-130	14.5	20	
Ethylbenzene	0.0518	0.00200	"	0.0500	0.000400	103	70-130	13.6	20	
m,p-Xylene	0.109	0.00400	"	0.100	0.00108	108	70-130	13.8	20	
o-Xylene	0.0541	0.00200	"	0.0500	0.000520	107	70-130	13.2	20	
Toluene	0.0513	0.00200	"	0.0500	0.00134	100	70-130	13.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1A2703 - EPA 3550B										
Blank (B1A2703-BLK1)					Prepared: 01/27/2021 Analyzed: 01/27/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	55		"	50.0		110	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2703 - EPA 3550B

LCS (B1A2703-BS1)

Prepared: 01/27/2021 Analyzed: 01/27/2021

Diesel (C10-C28)	930	50.0	mg/kg	1000		93.0	70-130			
Residual Range Organics (C28-C40)	947	200	"	1000		94.7	70-130			
Surrogate: o-Terphenyl	53		"	50.0		106	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2703 - EPA 3550B

Matrix Spike (B1A2703-MS1)		Source: Y101294-15			Prepared: 01/27/2021 Analyzed: 01/27/2021					
Diesel (C10-C28)	937	50.0	mg/kg	1000	122	81.5	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	162	86.0	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.4	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2703 - EPA 3550B

Matrix Spike Dup (B1A2703-MSD1)		Source: Y101294-15			Prepared: 01/27/2021 Analyzed: 01/27/2021					
Diesel (C10-C28)	966	50.0	mg/kg	1000	122	84.4	70-130	3.06	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	162	88.5	70-130	2.36	35	
Surrogate: o-Terphenyl	49		"	50.0		97.9	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2806 - NO PREP

Duplicate (B1A2806-DUP1)

Source: Y101309-01

Prepared: 01/28/2021 Analyzed: 01/28/2021

pH	13.0		pH Units	13.0		0.154	25
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Batch B1A2807 - NO PREP

Blank (B1A2807-BLK1)

Prepared: 01/28/2021 Analyzed: 01/28/2021

Specific Conductance (EC)	0.00190	0.00500	mmhos/cm
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Duplicate (B1A2807-DUP1)

Source: Y101309-01

Prepared: 01/28/2021 Analyzed: 01/28/2021

Specific Conductance (EC)	14.9	0.00500	mmhos/cm	14.5		2.69	25
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: 020-006
Project: Margil SE

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L533679 - 3550B

MSD (L 90434-MSD-L533679)		Source: Y101315-01			Prepared: 01/28/2021 Analyzed: 01/28/2021					
Benzo(a)anthracene	0.115	0.000441	mg/Kg	0.164	ND	70.1	30-130	5	30	
1-Methylnaphthalene	0.102	0.00048	"	0.164	0.000752	61.7	30-130	4.7	30	
2-Methylnaphthalene	0.105	0.000542	"	0.164	0.00151	63.1	30-130	5.5	30	
Anthracene	0.107	0.000426	"	0.164	ND	65.2	30-130	3.6	30	
Pyrene	0.112	0.000387	"	0.164	ND	68.2	30-130	5.2	30	
Naphthalene	0.096	0.000467	"	0.164	ND	58.5	30-130	5	30	
Indeno(1,2,3-cd)pyrene	0.104	0.000344	"	0.164	ND	63.4	30-130	6.5	30	
Acenaphthene	0.0974	0.000431	"	0.164	ND	59.3	30-130	5.5	30	
Fluorene	0.103	0.000501	"	0.164	ND	62.8	30-130	4.7	30	
Dibenz(a,h)anthracene	0.117	0.000279	"	0.164	ND	71.3	30-130	7.4	30	
Chrysene	0.106	0.000256	"	0.164	ND	64.6	30-130	6.3	30	
Benzo(k)fluoranthene	0.0954	0.000486	"	0.164	ND	58.1	30-130	6.6	30	
Benzo(b)fluoranthene	0.104	0.000138	"	0.164	0.000362	63.4	30-130	4.6	30	
Benzo(a)pyrene	0.114	0.000133	"	0.164	0.000216	69.5	30-130	5.1	30	
Fluoranthene	0.115	0.000529	"	0.164	ND	70.1	30-130	5	30	
Surrogate: 2-Fluorobiphenyl	67.9		"	0.328	228	67.9	33-115			
Surrogate: 4-Terphenyl-d14	74		"	0.328	228	74	33-122			
Surrogate: Nitrobenzene-d5	64.6		"	0.328	212	64.6	29-110			

MS (L 90434-MS-L533679)		Source: Y101315-01			Prepared: 01/28/2021 Analyzed: 01/28/2021					
Naphthalene	0.101	0.000467	mg/Kg	0.167	ND	60.4	30-130			
Anthracene	0.111	0.000426	"	0.167	ND	66.4	30-130			
Benzo(a)anthracene	0.121	0.000441	"	0.167	ND	72.4	30-130			
Benzo(a)pyrene	0.12	0.000133	"	0.167	0.000216	71.8	30-130			
Benzo(b)fluoranthene	0.109	0.000138	"	0.167	0.000362	65.2	30-130			
Benzo(k)fluoranthene	0.102	0.000486	"	0.167	ND	61	30-130			
Chrysene	0.113	0.000256	"	0.167	ND	67.6	30-130			

Origins Laboratory, Inc.



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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: 020-006
Project: Margil SE

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L533679 - 3550B

MS (L 90434-MS-L533679)		Source: Y101315-01			Prepared: 01/28/2021 Analyzed: 01/28/2021					
Dibenz(a,h)anthracene	0.126	0.000279	mg/Kg	0.167	ND	75.4	30-130			
Fluoranthene	0.121	0.000529	"	0.167	ND	72.4	30-130			
Indeno(1,2,3-cd)pyrene	0.111	0.000344	"	0.167	ND	66.4	30-130			
Acenaphthene	0.103	0.000431	"	0.167	ND	61.6	30-130			
1-Methylnaphthalene	0.107	0.00048	"	0.167	0.000752	63.6	30-130			
Pyrene	0.118	0.000387	"	0.167	ND	70.6	30-130			
Fluorene	0.108	0.000501	"	0.167	ND	64.6	30-130			
2-Methylnaphthalene	0.111	0.000542	"	0.167	0.00151	65.5	30-130			
Surrogate: Nitrobenzene-d5	63		"	0.333	212	63	29-110			
Surrogate: 2-Fluorobiphenyl	66.6		"	0.333	228	66.6	33-115			
Surrogate: 4-Terphenyl-d14	74.4		"	0.333	228	74.4	33-122			

LCS (LCS-L533679)

Prepared: 01/28/2021 Analyzed: 01/28/2021

Dibenz(a,h)anthracene	0.13	0.000279	mg/Kg	0.167		77.8	30-130
Pyrene	0.123	0.000387	"	0.167		73.6	30-130
2-Methylnaphthalene	0.115	0.000542	"	0.167		68.8	30-130
Acenaphthene	0.108	0.000431	"	0.167		64.6	30-130
Anthracene	0.115	0.000426	"	0.167		68.8	30-130
Naphthalene	0.107	0.000467	"	0.167		64	30-130
Indeno(1,2,3-cd)pyrene	0.117	0.000344	"	0.167		70	30-130
Benzo(a)anthracene	0.13	0.000441	"	0.167		77.8	30-130
Fluoranthene	0.125	0.000529	"	0.167		74.8	30-130
Chrysene	0.115	0.000256	"	0.167		68.8	30-130
Benzo(k)fluoranthene	0.115	0.000486	"	0.167		68.8	30-130
Benzo(b)fluoranthene	0.106	0.000138	"	0.167		63.4	30-130
Benzo(a)pyrene	0.126	0.000133	"	0.167		75.4	30-130
1-Methylnaphthalene	0.111	0.00048	"	0.167		66.4	30-130

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: 020-006
Project: Margil SE

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L533679 - 3550B										
LCS (LCS-L533679)					Prepared: 01/28/2021 Analyzed: 01/28/2021					
Fluorene	0.112	0.000501	mg/Kg	0.167		67	30-130			
Surrogate: Nitrobenzene-d5	75.9		"	0.333		75.9	29-110			
Surrogate: 2-Fluorobiphenyl	81.9		"	0.333		81.9	33-115			
Surrogate: 4-Terphenyl-d14	87.9		"	0.333		87.9	33-122			
LRB (LRB-L533679)					Prepared: 01/28/2021 Analyzed: 01/28/2021					
Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
Anthracene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	70.8		"	0.333		70.8	29-110			
Surrogate: 2-Fluorobiphenyl	76.2		"	0.333		76.2	33-115			
Surrogate: 4-Terphenyl-d14	78		"	0.333		78	33-122			

Origins Laboratory, Inc.



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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: 020-006
Project: Margil SE

Total Metals by EPA 6020B - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L533800 - 3050B										
MSD (L 90434-MSD-L533800)			Source: Y101315-01		Prepared: 01/29/2021 Analyzed: 02/01/2021					
Barium	196	0.41	mg/Kg	4.82	187	187	75-125	4	80	*
Cadmium	0.668	0.0391	"	0.482	0.191	139	75-125	6.8	80	*
Copper	13.6	0.118	"	2.41	11.7	79	75-125	1.4	80	
Lead	12.2	0.0115	"	2.41	10.5	71	75-125	0	80	*
Nickel	16	0.0743	"	2.41	14.2	75	75-125	1.2	80	
Selenium	3.38	0.102	"	4.82	0.337	63	75-125	9	80	*
Silver	0.477	0.0025	"	0.482	0.0417	99	75-125	2.4	80	
Zinc	70	0.438	"	24.1	48.8	88	75-125	2.2	80	
Arsenic	4.76	0.0433	"	2.41	3.08	70	75-125	0.2	80	*
MS (L 90434-MS-L533800)			Source: Y101315-01		Prepared: 01/29/2021 Analyzed: 01/29/2021					
Arsenic	4.77	0.0433	mg/Kg	2.45	3.08	69	75-125			*
Silver	0.489	0.0025	"	0.49	0.0417	100	75-125			
Zinc	71.6	0.438	"	24.5	48.8	93	75-125			
Nickel	16.2	0.0743	"	2.45	14.2	82	75-125			
Lead	12.2	0.0115	"	2.45	10.5	69	75-125			*
Copper	13.8	0.118	"	2.45	11.7	86	75-125			
Cadmium	0.624	0.0391	"	0.49	0.191	127	75-125			*
Selenium	3.7	0.102	"	4.9	0.337	69	75-125			*
Barium	204	0.41	"	4.9	187	347	75-125			*
LCS (LCS-L533800)			Prepared: 01/29/2021 Analyzed: 01/29/2021							
Selenium	4.91	0.102	mg/Kg	5		98	80-120			
Silver	0.475	0.0025	"	0.5		95	80-120			
Nickel	2.37	0.0743	"	2.5		95	80-120			
Lead	2.39	0.0115	"	2.5		96	80-120			
Copper	2.5	0.118	"	2.5		100	80-120			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Total Metals by EPA 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L533800 - 3050B

LCS (LCS-L533800)

Prepared: 01/29/2021 Analyzed: 01/29/2021

Cadmium	0.477	0.0391	mg/Kg	0.5		95	80-120			
Barium	4.56	0.041	"	5		91	80-120			
Arsenic	2.42	0.0433	"	2.5		97	80-120			
Zinc	24.2	0.438	"	25		97	80-120			

LRB (LRB-L533800)

Prepared: 01/29/2021 Analyzed: 01/29/2021

Zinc	<0.438	2.5	mg/Kg				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Silver	<0.0025	0.25	"				-			
Selenium	<0.102	0.25	"				-			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Total Metals by EPA 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L533832 -										
DUP (L 90434-DUP)	Source: Y101315-01				Prepared: Analyzed: 01/29/2021					
Chromium, Hexavalent	ND	0.287	mg/Kg		ND		-	0	20	
MS (L 90434-MS)	Source: Y101315-01				Prepared: Analyzed: 01/29/2021					
Chromium, Hexavalent	6.9	0.287	mg/Kg	7.96	ND	87	75-125			
LCS (LCS)					Prepared: Analyzed: 01/29/2021					
Chromium, Hexavalent	7.2	0.287	mg/Kg	8		90	75-125			
LRB (LRB)					Prepared: Analyzed: 01/29/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager



February 05, 2021

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Margil SE

Project Number - 020-006

Attached are your analytical results for Margil SE received by Origins Laboratory, Inc. January 28, 2021. This project is associated with Origins project number Y101352-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG2-1	Y101352-01	Soil	January 28, 2021 11:52	01/28/2021 15:00

Per the phone call from Ben on 02-01-21, Boron was added to the analysis. JEP

Per the mail from Ben on 02-02-21, Arsenic was added on a three day TAT. JEP

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Origins Laboratory

Sample Receipt Checklist

F-012207-01-R1
Effective Date: 01/09/12

Origins Work Order: Y101352

Client: Entrada
Client Project ID: Margil SE

Checklist Completed by: jm

Shipped Via: HTP
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/Time completed: 1-21-21

Airbill #: 111a

Matrix(s) Received: (Check all that apply): X Soil/Solid Water Other:

Cooler Number/Temperature: 1 21.5 °C °C °C (Describe) °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		
Is there ice present (document if blue ice is used)	X			same day
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)				
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			X	
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			X	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by jm (Project Manager)

2-1-21
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

BG2-1**1/28/2021 11:52:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y101352-01 (Soil)**Boron (Sorbitol)**

Boron	1.9		mg/L	1	[none]		02/01/2021	02/03/2021	
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Metals (Saturated Paste Prep)

Calcium	3.45		me/L	1	[none]		"	02/03/2021	
Magnesium	2.46		"	"	"		"	"	
Sodium	1.57		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	7.61		pH Units	1	B1B0106	DJL	02/01/2021	02/01/2021	
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SAR by 20B Saturated Paste

SAR	0.91			1	[none]		02/01/2021	02/03/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.55	0.00500	mmhos/cm	1	B1B0107	DJL	02/01/2021	02/01/2021	
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Total Metals by 6020A

Arsenic	3.75	0.25	mg/Kg	5	L534832		02/04/2021	02/04/2021	
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Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1B0106 - NO PREP										
Duplicate (B1B0106-DUP1)		Source: Y101352-01			Prepared: 02/01/2021 Analyzed: 02/01/2021					
pH	7.57		pH Units		7.61			0.527	25	
Batch B1B0107 - NO PREP										
Blank (B1B0107-BLK1)		Prepared: 02/01/2021 Analyzed: 02/01/2021								
Specific Conductance (EC)	0.00320	0.00500	mmhos/cm							
Duplicate (B1B0107-DUP1)		Source: Y101352-01			Prepared: 02/01/2021 Analyzed: 02/01/2021					
Specific Conductance (EC)	1.72	0.00500	mmhos/cm		1.55			10.1	25	

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Total Metals by 6020A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L534832 - 3050B										
MSD (L 92528-MSD-L534832)	Source: 92528				Prepared: 02/04/2021 Analyzed: 02/04/2021					
Arsenic	5.36	0.0629	mg/Kg	2.49	3.88	60	75-125	2.7	20	*
MS (L 92528-MS-L534832)	Source: 92528				Prepared: 02/04/2021 Analyzed: 02/04/2021					
Arsenic	5.51	0.0629	mg/Kg	2.48	3.88	66	75-125			*
LCS (LCS-L534832)					Prepared: 02/04/2021 Analyzed: 02/04/2021					
Arsenic	2.15	0.0629	mg/Kg	2.5		86	80-120			
LRB (LRB-L534832)					Prepared: 02/04/2021 Analyzed: 02/04/2021					
Arsenic	ND	0.25	mg/Kg				-			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Notes and Definitions

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager



February 01, 2021

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Margil SE

Project Number - 020-006

Attached are your analytical results for Margil SE received by Origins Laboratory, Inc. January 29, 2021. This project is associated with Origins project number Y101363-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS2-4	Y101363-01	Soil	January 29, 2021 10:15	01/29/2021 13:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y10363

Client: Entrada

Client Project ID: Margil SE

Checklist Completed by: KDK

Shipped Via: FIP
(UPS, FedEx, Hand Delivery, Pick-up, etc.)

Date/time completed: 01-29-21

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1, 14.3 °C / _____ °C _____ °C / _____ °C (Describe)

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		Same Day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

02-01-21
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS2-4

1/29/2021 10:15:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.

Y101363-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1A2908	TEM	01/29/2021	01/29/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	82.9 %	50-150	"	"	"
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2908 - EPA 3580

Blank (B1A2908-BLK1)

Prepared: 01/29/2021 Analyzed: 01/29/2021

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	25.0		99.5	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2908 - EPA 3580**LCS (B1A2908-BS1)**

Prepared: 01/29/2021 Analyzed: 01/29/2021

Diesel (C10-C28)	1100	50.0	mg/kg	1000		110	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	61		"	50.0		122	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1A2908 - EPA 3580

Matrix Spike (B1A2908-MS1)		Source: Y101358-01			Prepared: 01/29/2021 Analyzed: 01/29/2021					
Diesel (C10-C28)	952	50.0	mg/kg	1000	ND	95.2	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	78.4	93.1	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1A2908 - EPA 3580

Matrix Spike Dup (B1A2908-MSD1)		Source: Y101358-01			Prepared: 01/29/2021 Analyzed: 01/29/2021					
Diesel (C10-C28)	941	50.0	mg/kg	1000	ND	94.1	70-130	1.11	35	
Residual Range Organics (C28-C40)	996	200	"	1000	78.4	91.7	70-130	1.39	35	
Surrogate: o-Terphenyl	51		"	50.0		102	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager



February 19, 2021

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Margil SE

Project Number - 020-006

Attached are your analytical results for Margil SE received by Origins Laboratory, Inc. February 11, 2021. This project is associated with Origins project number Y102243-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS20-1	Y102243-01	Soil	February 11, 2021 9:30	02/11/2021 13:50
SS21-1	Y102243-02	Soil	February 11, 2021 10:30	02/11/2021 13:50
SS22-1	Y102243-03	Soil	February 11, 2021 11:45	02/11/2021 13:50

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: 020-006
Project: Margil SE

Y102243

page 1 of 1

Client: Entrada Consulting Group
Address: _____
Project Manager: Ben Baugh
Project Name: Margil SE
Project Number: _____
Telephone Number: 804-513-0707
Email Address: bb@entradaconsulting.com
Bill to Jason Davidson at EWOC
jdavidson@ewoc.com

Samples Collected By: BB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix	Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other		Groundwater	Soil	Air Summa #		Other
SS20-1	2/11/21	930	1					X					1
SS21-1	↓	1030	↓										2
SS22-1	↓	1145	↓										3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: <u>Ben Baugh</u>	Date:	2/11/21	Time:	1350	Received By:		Date:	2/11/21	Time:	1350	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
	Date:	2/11/21	Time:	1350	Received By:		Date:	2/11/21	Time:	1350	

Temp Received: 56.4 Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y102243

Client: Entrada

Client Project ID: Margil SE

Checklist Completed by: jm

Shipped Via: HP

Date/time completed: 2-12-21

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 9.8 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T603

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ ; HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) jm

2-19-21
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS20-1

2/11/2021 9:30:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y102243-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1B1105	KDK	02/11/2021	02/12/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 68.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1B1208	TEM	02/12/2021	02/12/2021	U
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.002	"	"	"	TEM	"	"	U
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "

Surrogate: Toluene-d8 95.9 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 94.4 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS21-1

2/11/2021 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y102243-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1B1105	KDK	02/11/2021	02/12/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 64.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1B1208	TEM	02/12/2021	02/12/2021	U
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.002	"	"	"	TEM	"	"	U
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "

Surrogate: Toluene-d8 96.1 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 94.3 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

SS22-1

2/11/2021 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y102243-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1B1105	KDK	02/11/2021	02/12/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 63.6 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1B1208	TEM	02/12/2021	02/12/2021	U
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.002	"	"	"	TEM	"	"	U
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 96.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.8 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1B1105 - EPA 3550B										
Blank (B1B1105-BLK1)					Prepared: 02/11/2021 Analyzed: 02/11/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	25.0		81.3	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1B1105 - EPA 3550B**LCS (B1B1105-BS1)**

Prepared: 02/11/2021 Analyzed: 02/11/2021

Diesel (C10-C28)	783	50.0	mg/kg	1000		78.3	70-130			
Residual Range Organics (C28-C40)	833	200	"	1000		83.3	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.8	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1B1105 - EPA 3550B

Matrix Spike (B1B1105-MS1)		Source: Y102215-01			Prepared: 02/11/2021 Analyzed: 02/11/2021					
Diesel (C10-C28)	720	50.0	mg/kg	1000	ND	72.0	70-130			
Residual Range Organics (C28-C40)	738	200	"	1000	ND	73.8	70-130			
Surrogate: o-Terphenyl	42		"	50.0		83.7	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1B1105 - EPA 3550B

Matrix Spike Dup (B1B1105-MSD1)		Source: Y102215-01			Prepared: 02/11/2021 Analyzed: 02/11/2021					
Diesel (C10-C28)	874	50.0	mg/kg	1000	ND	87.4	70-130	19.3	35	
Residual Range Organics (C28-C40)	908	200	"	1000	ND	90.8	70-130	20.7	35	
Surrogate: o-Terphenyl	44		"	50.0		87.4	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1B1208 - EPA 5030 (soil)										
Blank (B1B1208-BLK1)					Prepared: 02/12/2021 Analyzed: 02/12/2021					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1B1208 - EPA 5030 (soil)										
LCS (B1B1208-BS1)					Prepared: 02/12/2021 Analyzed: 02/12/2021					
Benzene	0.058	0.002	mg/kg	0.0500		115	70-130			
Toluene	0.055	0.002	"	0.0500		110	70-130			
Ethylbenzene	0.057	0.002	"	0.0500		115	70-130			
m,p-Xylene	0.116	0.004	"	0.100		116	70-130			
o-Xylene	0.056	0.002	"	0.0500		111	70-130			
Naphthalene	0.048	0.008	"	0.0500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1B1208 - EPA 5030 (soil)

Matrix Spike (B1B1208-MS1)		Source: Y102249-01			Prepared: 02/12/2021 Analyzed: 02/12/2021					
Benzene	0.056	0.002	mg/kg	0.0500	ND	111	70-130			
Toluene	0.051	0.002	"	0.0500	ND	103	70-130			
Ethylbenzene	0.052	0.002	"	0.0500	ND	103	70-130			
m,p-Xylene	0.106	0.004	"	0.100	ND	106	70-130			
o-Xylene	0.050	0.002	"	0.0500	ND	100	70-130			
Naphthalene	0.050	0.008	"	0.0500	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1B1208 - EPA 5030 (soil)

Matrix Spike Dup (B1B1208-MSD1)		Source: Y102249-01			Prepared: 02/12/2021 Analyzed: 02/12/2021					
Benzene	0.055	0.002	mg/kg	0.0500	ND	109	70-130	2.11	20	
Toluene	0.051	0.002	"	0.0500	ND	102	70-130	0.861	20	
Ethylbenzene	0.051	0.002	"	0.0500	ND	102	70-130	1.25	20	
m,p-Xylene	0.103	0.004	"	0.100	ND	103	70-130	2.11	20	
o-Xylene	0.050	0.002	"	0.0500	ND	101	70-130	0.159	20	
Naphthalene	0.053	0.008	"	0.0500	ND	106	70-130	5.77	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 020-006

Project: Margil SE

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

ATTACHMENT D
WASTE MANIFESTS



WASTE CONNECTIONS INC.
Connect with the future

NON-HAZARDOUS WASTE MANIFEST

Manifest Number: **00001**

Approval Number: **FR21005**

Expiration Date: **01/22/2024**

Section 1

Generator Information (generator to complete)

Generator Name: Great Western Oil and Gas Co
Address: 1001 17th St
Ste 2000
City, State: Denver, CO
Zip: 80202

Site Name: Allegit 3434 20 RD 7577
Address: 2541 17A 2000 324
City, State: _____
Zip: _____

Contact Person: Jason Davidson

Contact Person: _____

Phone #: 303-596-5693 Fax: _____

Phone #: _____ Fax: _____

Common Name of Waste: Hydrocarbon Impacted
Soil

Consultant: _____
Address: _____

Description of Waste: Hydrocarbon Impacted
Soil

City, State: _____
Zip: _____

Disposal Volume ☐ Yards ☐ Tons

Contact Person: _____

Other ☐ _____

Phone #: _____ Fax: _____

I hereby warrant that the above material is the same material represented on the Special Waste Application identified by the above Special Waste Approval Code and such material was delivered to the transporter on the shipment date referenced below.

GWOC
Generator's Authorized Agent Name (print / type)

Ben B...
Signature of Generator's Authorized Agent

Shipment Date

Section 2

Transporter Information (transporter to complete)

51703
Transporter Name: WasteConnections Inc
Address: 5500 Franklin St
City, State: Denver, CO
Zip: 80216

Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

Phone #: 303.288.2100

I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Armando Silva
Name of Driver (print / type)

Armando Silva
Signature of Driver

1/27/21
Date

Section 3

Destination Information (disposal facility to complete)

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes IC_PCSEP_T

Charge To 2099

Volume Received Ticket # 2035101
Yards 0 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent

1/27/21
Date

The material delivered above was received at the landfill.

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant



NON-HAZARDOUS WASTE MANIFEST

Manifest Number: **00007**Approval Number: **FR21005**Expiration Date: **01/22/2024****Section 1****Generator Information****(generator to complete)**

Generator Name: Great Western Oil and Gas Co
Address: 1001 17th St
Ste 2000
City, State: Denver, CO
Zip: 80202

Site Name: Margil SE
Address: _____
City, State: _____
Zip: _____

Contact Person: Jason Davidson

Contact Person: _____

Phone #: 303-596-5693 Fax: _____ Phone #: _____ Fax: _____

Common Name of Waste: Hydrocarbon Impacted Consultant: _____
Soil Address: _____

Description of Waste: Hydrocarbon Impacted City, State: _____
Soil Zip: _____

Disposal Volume ☐ Yards ☐ Tons Contact Person: _____Other ☐ Phone #: _____ Fax: _____

I hereby warrant that the above material is the same material represented on the Special Waste Application identified by the above Special Waste Approval Code and such material was delivered to the transporter on the shipment date referenced below.

Generator's Authorized Agent Name (print / type) _____

Signature of Generator's Authorized Agent _____

Shipment Date _____

Section 2**Transporter Information****(transporter to complete)**

Transporter Name: WasteConnections Inc
Address: 5500 Franklin St
City, State: Denver, CO
Zip: 80216

Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

Phone #: 303.288.2100

I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print / type) Brian Tindel

Signature of Driver _____

Date 2-12-21**Section 3****Destination Information****(disposal facility to complete)**

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes IC_PCSEP_TCharge To 2099

Volume Received Ticket # 2041972
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____

Signature of Landfill's Authorized Agent _____

Date 2-12-21

The material delivered above was received at the landfill.

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant