



CMU North Injection, CMU B #52

CLOSURE REPORT

API No. 30-025-01480

1RP-4773

Release Date: July 27th, 2017

Unit Letter G, Section 19, Township 17 South, Range 33 East

October 16, 2017

Prepared by:

Michael Burton, C&M Services

P.O Box 3470

Hobbs, NM 88240

Phone: (575)499-5306

Marineburton@gmail.com

Olivia Yu
Environmental Specialist
NM Oil Conservation District-Division 2
1625 N. French
Hobbs, NM 88240

RE: **Linn Energy, CMU North Injection, CMU #52– Closure Report**
UL/G, Section 19, T17S, R33E
API No. 30-025-01480

Ms. Yu,

Linn Energy (Linn) has retained C&M Service, to address environmental issues for the site detailed herein.

Site Assessment and Delineation

On July 27, 2017 C&M personnel responded to the release site and dug up the line so a crew could fix it. C&M then scraped up the affected area to minimize the environmental impact

On July 28, 2017 C&M personnel returned to the site and sampled the spill area. C&M sampled 18 points of the spill area. The samples were tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photo ionization Detector (PID). Clean samples were attained on all of the 18 samples plus 10' and sent to a lab for confirmation.

C&M has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 100 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Approvals

On September 1, 2017 Environmental Specialist of NM Oil Conservation District-Division 2, Olivia Yu approved the work plan. On August 22, 2017 Environmental Protection Specialist BLM-CFO, Shelly Tucker approved the work plan.

Site Activities

On September 18, 2017 C&M personnel started the cleanup of the approved work plan. The areas of SP #16, and SP #18 were excavated to 2' BGS. The areas of SP #2, SP #3, SP #11 and SP #13 were excavated to 3' BGS. The areas of SP # 1. SP #4- SP #10, SP#12, SP#14-#15, and SP#17 to 4' BGS and a .20 mil liner was installed as a barrier before backfill. Sidewall samples were taken during the excavation to ensure all contaminated soil was removed. Several sidewall samples were taken to Hall Laboratory for confirmation. All contaminated soil was taken to Lea Land, an approved NM State Disposal. The entire area was backfilled with like topsoil to surface grade, contoured and seeded with BLM LPC seed.

Due to the completion of approved corrective action, C&M, on behalf of Linn Energy, submits the final C-141, and respectfully requests the closure of the regulatory file for this site.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,



Michael Burton
Environmental Superintendent
C&M Service.
P.O Box 3470
Hobbs, NM 88241
Mobile: (575)499-5306
Email: marineburton@gmail.com

Attachments: Final Form C-141
Site/Sample Map
Sample Data
GPS coordinates per sample point

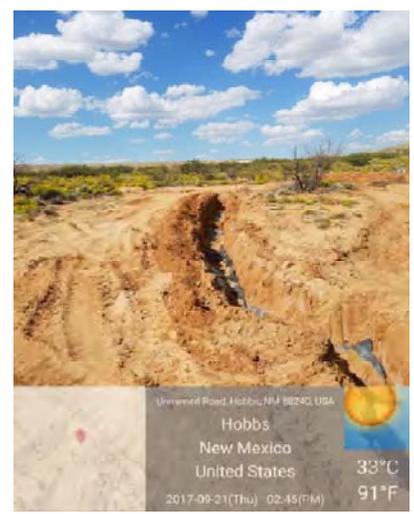


CMU North Injection, CMU B #052

CLOSURE PHOTO PAGE



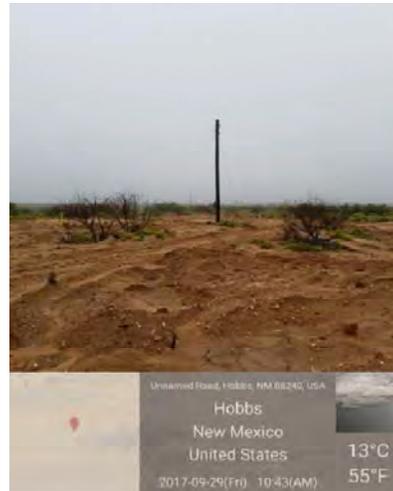
SP 1-3 area



SP 5 area



Back fill area SP 11-15



Back fill area SP16-18



Disking in seed



Seeding

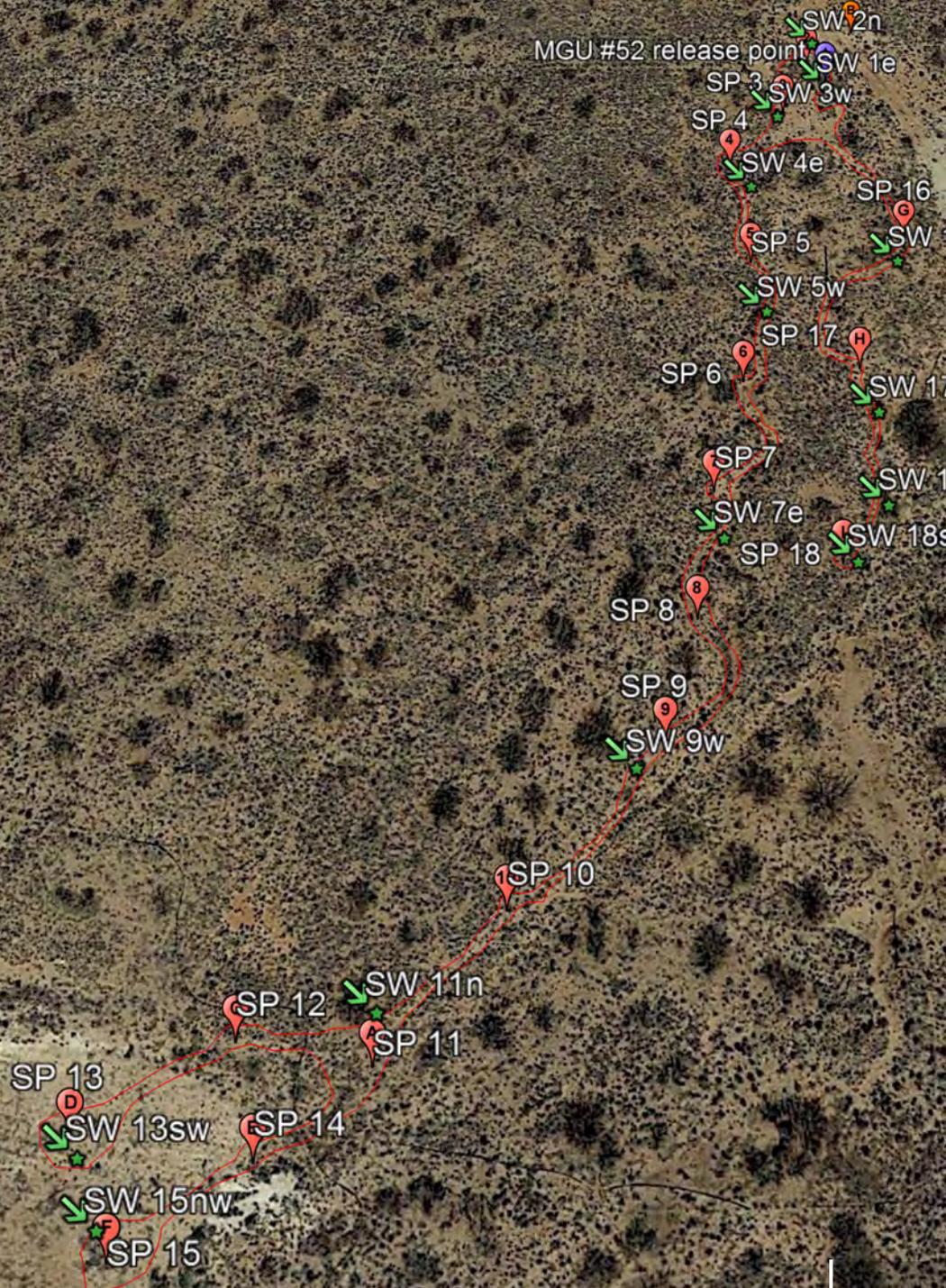
CMU N Inj. #52

Sample and sidewall points

Legend

-  Background
-  CMU 52 Spill Path
-  MGU #52 release point
-  SP 10
-  SP 11
-  SP 12
-  SP 13
-  SP 14
-  SP 15
-  SP 16
-  SP 17
-  SP 18
-  SP 2
-  SP 3
-  SP 4
-  SP 5
-  SP 6
-  SP 7
-  SP 8
-  SP 9
-  SW

MGU #52 release point



CMU N Inj. #52

Sidewall points.

Legend

-  Background
-  CMU 52 Spill Path
-  MGU #52 release point
-  SP 10
-  SP 11
-  SP 12
-  SP 13
-  SP 14
-  SP 15
-  SP 16
-  SP 17
-  SP 18
-  SP 2
-  SP 3
-  SP 4
-  SP 5
-  SP 6
-  SP 7
-  SP 8
-  SP 9
-  SW

MGU #52 release point

SW 2n

SW 1e

SW 3w

SW 4e

SW 16e

SW 5w

SW 17w

SW 18e

SW 18s

SW 7e

SW 9w

SW 11n

SW 13sw

SW 15nw



Liner SP 1-9

Liner outlined in Blue

Legend

-  CMU 52 Spill Path
-  Liner
-  SP 10
-  SP 11
-  SP 12
-  SP 13
-  SP 14
-  SP 15
-  SP 18
-  SP 8
-  SP 9

SP 2

MGU #52 release point

SP 3

SP 4

SP 5

SP 16

SP 6

SP 17

SP 7

SP 18

SP 8

SP 9



Liner SP 9-15

Liner outlined in Blue

Legend

- CMU 52 Spill Path
- Liner
- SP 10
- SP 11
- SP 12
- SP 13
- SP 14
- SP 15
- SP 18
- SP 8
- SP 9



| SWSP11 | CHL | PID | SWSP12 | CHL | PID | SWSP13 | CHL | PID | SWSP14 | CHL | PID | SWSP15 | CHL | PID |
|--------|------|-------|--------|------|-----|--------|------|-------|--------|------|-----|--------|------|-------|
| North | <250 | 0 | North | <250 | 0 | North | <250 | 0 | North | <250 | 0 | North | <250 | 0 |
| South | <250 | 0 | South | <250 | 0 | South | <250 | 0 | South | <250 | 0 | South | <250 | 0 |
| East | <250 | 0 | East | <250 | 0 | East | <250 | 0 | East | <250 | 0 | East | <250 | 0 |
| West | <250 | 0 | West | <250 | 0 | West | <250 | 0 | West | <250 | 0 | West | <250 | 0 |
| | | | | | | | | | | | | | | |
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| Bottom | <250 | 0 | | | | Bottom | <250 | 0 | | | | | | |
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| | | | | | | | | | | | | | | |
| North | ND | TPH 0 | | | | SW | ND | TPH 0 | | | | NW | ND | TPH 0 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | |
|--|--|
| | Lab Confirmation Sample |
| | Field Sampling |
| | Needs Delineation and confirmation samples |

| SWSP16 | CHL | PID | SWSP17 | CHL | PID | SWSP18 | CHL | PID | | CHL | PID | | CHL | PID |
|--------|------|-------|--------|------|-------|--------|------|-------|--|-----|-----|--|-----|-----|
| North | <250 | 0 | North | <250 | 0 | North | <250 | 0 | | | | | | |
| South | <250 | 0 | South | <250 | 0 | South | <250 | 0 | | | | | | |
| East | <250 | 0 | East | <250 | 0 | East | <250 | 0 | | | | | | |
| West | <250 | 0 | West | <250 | 0 | West | <250 | 0 | | | | | | |
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| Bottom | <250 | 0 | | | | Bottom | <250 | 0 | | | | | | |
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| | | | | | | | | | | | | | | |
| East | ND | TPH 0 | West | ND | TPH 0 | East | ND | TPH 0 | | | | | | |
| | | | | | | South | ND | TPH 0 | | | | | | |
| | | | | | | | | | | | | | | |

| | |
|--|--|
| | Lab Confirmation Sample |
| | Field Sampling |
| | Needs Delineation and confirmation samples |

Linn Energy
CMU North Injection, CMU B #52
Sample point GPS

Liner

Background 32.822181, -103.700495

SP #1 release point 32.82209, -103.70055

SP #2 32.82212, -103.70058

SP #3 32.82203, -103.70063

SP #4 32.82193, -103.70073

SP #5 32.82176, -103.70071

SP #6 32.82156, -103.70074

SP #7 32.82139, -103.70080

SP #8 32.82120, -103.70084

SP #9 32.82103, -103.70090

SP #10 32.82081, -103.70114

SP #11 32.82062, -103.70133

SP #12 32.82065, -103.70152

SP #13 32.82054, -103.70174

SP #14 32.82051, -103.70149

SP #15 32.82040, -103.70168

SP #16 32.82180, -103.70045

SP #17 32.82158, -103.70055

SP #18 32.82128, -103.70061

Sidewall Labs GPS

SW @ SP1 32.822064, -103.700569

SW @ SP 2 32.822146, -103.700585

SW @ SP 3 32.822007,-103.700659
SW @ SP 4 32.821880,-103.700715
SW @ SP 5 32.821660,-103.700710
SW @ SP 7 32.821304,-103.700808
SW @ SP 9 32.820981,-103.700963
SW @ SP 11 32.820672,-103.701342
SW @ SP 13 32.820503,-103.701745
SW @ SP 15 32.820423,-103.701713
SW @ SP 16 32.821745,-103.700485
SW @ SP 17 32.821496,-103.700546
SW @ SP 18E 32.821351,-103.700548
SW @ SP 18S 32.821266,-103.700606

Curtis and Curtis, Inc.

4500 North Prince
Clovis, NM 88101
Phone: (575) 762-4759
www.curtisseed.com

C & M Services / Mike Burton
2 Acre LPC Mix, Broadcast Rate
4 - 1/2 Acre Bags @ 27.88 Bulk Pounds Each
Job: CMU North Injection #52

Lot#: M-14758

| Item | Origin | Purity | Germ | Dormant | Total Germination | Test Date | Total PLS Pounds |
|---------------------|----------|--------|--------|---------|-------------------|-----------|------------------|
| Plains Bristlegrass | Oklahoma | 18.30% | 72.00% | 26.00% | 98.00% | 06/17 | 20.00 |
| Not Stated | | | | | | | |
| Sand Bluestem | Texas | 18.88% | 95.00% | 0.00% | 95.00% | 01/17 | 20.00 |
| Woodward | | | | | | | |
| Little Bluestem | Texas | 11.96% | 90.00% | 0.00% | 90.00% | 06/17 | 12.00 |
| Cimarron | | | | | | | |
| Big Bluestem | Kansas | 21.97% | 98.00% | 0.00% | 98.00% | 08/17 | 24.00 |
| Kaw | | | | | | | |
| Coreopsis | Kansas | 7.48% | 96.00% | 0.00% | 96.00% | 06/17 | 8.00 |
| Plains | | | | | | | |
| Sand Dropseed | Colorado | 3.82% | 31.00% | 63.00% | 94.00% | 05/17 | 4.00 |
| Not Stated | | | | | | | |

Other Crop: 2.05% There Are 4 Bags For This Mix Total Bulk Pounds: 111.51
 Weed Seed: 0.05% This Bag Weighs 27.88 Bulk Pounds
 Inert Matter: 15.49% Use This Bag For 1/2 Acres

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| Woodward | | | | | | | |
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| Cimarron | | | | | | | |
| Big Bluestem | Kansas | 21.97% | 98.00% | 0.00% | 98.00% | 08/17 | 24.00 |
| Kaw | | | | | | | |
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| Plains | | | | | | | |
| Sand Dropseed | Colorado | 3.82% | 31.00% | 63.00% | 94.00% | 05/17 | 4.00 |
| Not Stated | | | | | | | |

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 Job: CMU North Injection #52

Lot#: M-14758

| Item | Origin | Purity | Germ | Dormant | Total Germination | Test Date | Total PLS Pounds |
|---------------------|----------|--------|--------|---------|-------------------|-----------|------------------|
| Plains Bristlegrass | Oklahoma | 18.50% | 72.00% | 26.00% | 98.00% | 06/17 | 20.00 |
| Not Stated | Texas | 18.88% | 95.00% | 0.00% | 95.00% | 06/17 | 12.00 |
| Sand Bluestem | Texas | 11.96% | 90.00% | 0.00% | 90.00% | 08/17 | 24.00 |
| Woodward | Texas | 21.97% | 91.00% | 0.00% | 91.00% | 09/17 | 8.00 |
| Little Bluestem | Kansas | 7.48% | 96.00% | 0.00% | 96.00% | 05/17 | 4.00 |
| Cimarron | Kansas | 3.82% | 31.00% | 63.00% | 94.00% | | |
| Big Bluestem | | | | | | | |
| Kaw | | | | | | | |
| Coreopsis | | | | | | | |
| Plains | | | | | | | |
| Sand Dropseed | | | | | | | |
| Not Stated | | | | | | | |
| Total Bulk Pounds: | | | | | | | 111.51 |

Other Crop: 2.05%
 Weed Seed: 0.05%
 Inert Matter: 15.49%

There Are 4 Bags For This Mix
 This Bag Weighs 27.88 Bulk Pounds
 Use This Bag For 1/2 Acres

Curtis and Curtis, Inc.

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 Clovis, NM 88101
 Phone: (575) 762-4759
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C & M Services / Mike Burton
 2 Acre LPC Mix, Broadcast Rate
 4 - 1/2 Acre Bags @ 27.88 Bulk Pounds Each
 Job: CMU North Injection #52

Lot#: M-14758

| Item | Origin | Purity | Germ | Dormant | Total Germination | Test Date | Total PLS Pounds |
|---------------------|----------|--------|--------|---------|-------------------|-----------|------------------|
| Plains Bristlegrass | Oklahoma | 18.50% | 72.00% | 26.00% | 98.00% | 06/17 | 20.00 |
| Not Stated | Texas | 18.88% | 95.00% | 0.00% | 95.00% | 01/17 | 20.00 |
| Sand Bluestem | Texas | 11.96% | 90.00% | 0.00% | 90.00% | 06/17 | 12.00 |
| Woodward | Texas | 21.97% | 98.00% | 0.00% | 98.00% | 08/17 | 24.00 |
| Little Bluestem | Kansas | 7.48% | 96.00% | 0.00% | 96.00% | 06/17 | 8.00 |
| Cimarron | Kansas | 3.82% | 31.00% | 63.00% | 94.00% | 05/17 | 4.00 |
| Big Bluestem | | | | | | | |
| Kaw | | | | | | | |
| Coreopsis | | | | | | | |
| Plains | | | | | | | |
| Sand Dropseed | | | | | | | |
| Not Stated | | | | | | | |
| Total Bulk Pounds: | | | | | | | 111.51 |

Other Crop: 2.05%
 Weed Seed: 0.05%
 Inert Matter: 15.49%

There Are 4 Bags For This Mix
 This Bag Weighs 27.88 Bulk Pounds
 Use This Bag For 1/2 Acres



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 12, 2017

Mike Burton
CM Services
PO Box 3470
Hobbs, NM 88241
TEL: (575) 499-5306
FAX

RE: CMU N inj 52

OrderNo.: 1710328

Dear Mike Burton:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/5/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710328

Date Reported: 10/12/2017

CLIENT: CM Services
Project: CMU N inj 52
Lab ID: 1710328-001

Matrix: SOIL

Client Sample ID: SW-SP 18 S
Collection Date: 10/3/2017 5:00:00 PM
Received Date: 10/5/2017 9:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/9/2017 11:23:17 PM | 34311 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | 12 | 9.2 | | mg/Kg | 1 | 10/9/2017 4:27:02 PM | 34277 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 10/9/2017 4:27:02 PM | 34277 |
| Surr: DNOP | 96.3 | 70-130 | | %Rec | 1 | 10/9/2017 4:27:02 PM | 34277 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/9/2017 4:39:45 PM | 34265 |
| Surr: BFB | 86.7 | 54-150 | | %Rec | 1 | 10/9/2017 4:39:45 PM | 34265 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/9/2017 4:39:45 PM | 34265 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/9/2017 4:39:45 PM | 34265 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/9/2017 4:39:45 PM | 34265 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/9/2017 4:39:45 PM | 34265 |
| Surr: 4-Bromofluorobenzene | 93.1 | 66.6-132 | | %Rec | 1 | 10/9/2017 4:39:45 PM | 34265 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710328

Date Reported: 10/12/2017

CLIENT: CM Services
Project: CMU N inj 52
Lab ID: 1710328-002

Matrix: SOIL

Client Sample ID: SW-SP 18 E
Collection Date: 10/3/2017 5:05:00 PM
Received Date: 10/5/2017 9:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 12:00:31 AM | 34311 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 10/9/2017 5:50:35 PM | 34277 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 10/9/2017 5:50:35 PM | 34277 |
| Surr: DNOP | 94.1 | 70-130 | | %Rec | 1 | 10/9/2017 5:50:35 PM | 34277 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/7/2017 2:09:36 AM | 34265 |
| Surr: BFB | 87.7 | 54-150 | | %Rec | 1 | 10/7/2017 2:09:36 AM | 34265 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 10/7/2017 2:09:36 AM | 34265 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/7/2017 2:09:36 AM | 34265 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/7/2017 2:09:36 AM | 34265 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/7/2017 2:09:36 AM | 34265 |
| Surr: 4-Bromofluorobenzene | 95.1 | 66.6-132 | | %Rec | 1 | 10/7/2017 2:09:36 AM | 34265 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710328

12-Oct-17

Client: CM Services
Project: CMU N inj 52

| Sample ID MB-34311 | SampType: mblk | | TestCode: EPA Method 300.0: Anions | | | | | | | |
|-----------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 34311 | | RunNo: 46232 | | | | | | | |
| Prep Date: 10/9/2017 | Analysis Date: 10/9/2017 | | SeqNo: 1472108 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID LCS-34311 | SampType: lcs | | TestCode: EPA Method 300.0: Anions | | | | | | | |
|-----------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 34311 | | RunNo: 46232 | | | | | | | |
| Prep Date: 10/9/2017 | Analysis Date: 10/9/2017 | | SeqNo: 1472109 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 91.4 | 90 | 110 | | | |

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710328

12-Oct-17

Client: CM Services
Project: CMU N inj 52

| Sample ID MB-34277 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|--------------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 34277 | | RunNo: 46198 | | | | | | | |
| Prep Date: 10/6/2017 | Analysis Date: 10/9/2017 | | SeqNo: 1471363 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.3 | | 10.00 | | 92.9 | 70 | 130 | | | |

| Sample ID 1710328-001AMS | SampType: MS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|---------------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: SW-SP 18 S | Batch ID: 34277 | | RunNo: 46198 | | | | | | | |
| Prep Date: 10/6/2017 | Analysis Date: 10/9/2017 | | SeqNo: 1471636 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 58 | 9.6 | 48.08 | 11.92 | 94.9 | 55.8 | 122 | | | |
| Surr: DNOP | 4.8 | | 4.808 | | 99.4 | 70 | 130 | | | |

| Sample ID 1710328-001AMSD | SampType: MSD | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|----------------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: SW-SP 18 S | Batch ID: 34277 | | RunNo: 46198 | | | | | | | |
| Prep Date: 10/6/2017 | Analysis Date: 10/9/2017 | | SeqNo: 1471637 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 54 | 9.8 | 49.21 | 11.92 | 85.3 | 55.8 | 122 | 6.57 | 20 | |
| Surr: DNOP | 4.8 | | 4.921 | | 98.0 | 70 | 130 | 0 | 0 | |

| Sample ID LCS-34277 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 34277 | | RunNo: 46198 | | | | | | | |
| Prep Date: 10/6/2017 | Analysis Date: 10/9/2017 | | SeqNo: 1471655 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 46 | 10 | 50.00 | 0 | 91.4 | 73.2 | 114 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 93.3 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710328

12-Oct-17

Client: CM Services
Project: CMU N inj 52

| Sample ID MB-34265 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 34265 | | RunNo: 46173 | | | | | | | |
| Prep Date: 10/5/2017 | Analysis Date: 10/6/2017 | | SeqNo: 1470392 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 870 | | 1000 | | 87.0 | 54 | 150 | | | |

| Sample ID LCS-34265 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 34265 | | RunNo: 46173 | | | | | | | |
| Prep Date: 10/5/2017 | Analysis Date: 10/6/2017 | | SeqNo: 1470393 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28 | 5.0 | 25.00 | 0 | 114 | 76.4 | 125 | | | |
| Surr: BFB | 990 | | 1000 | | 99.0 | 54 | 150 | | | |

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710328

12-Oct-17

Client: CM Services
Project: CMU N inj 52

| Sample ID MB-34265 | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 34265 | | RunNo: 46173 | | | | | | | |
| Prep Date: 10/5/2017 | Analysis Date: 10/6/2017 | | SeqNo: 1470424 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.94 | | 1.000 | | 93.8 | 66.6 | 132 | | | |

| Sample ID LCS-34265 | SampType: LCS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 34265 | | RunNo: 46173 | | | | | | | |
| Prep Date: 10/5/2017 | Analysis Date: 10/6/2017 | | SeqNo: 1470425 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.025 | 1.000 | 0 | 97.1 | 80 | 120 | | | |
| Toluene | 0.98 | 0.050 | 1.000 | 0 | 97.6 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 101 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 100 | 66.6 | 132 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

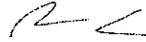
Client Name: **CM SERVICES**

Work Order Number: **1710328**

RcptNo: **1**

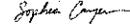
Received By: **Richie Eriacho**

10/5/2017 9:45:00 AM



Completed By: **Sophia Campuzano**

10/5/2017 11:06:38 AM



Reviewed By:



10/5/17

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

| |
|--|
| # of preserved bottles checked for pH: _____ (<2 or >12 unless noted) Adjusted? _____ Checked by: _____ |
|--|

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

| | |
|----------------------------|--|
| Person Notified: _____ | Date: _____ |
| By Whom: _____ | Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: _____ | |
| Client Instructions: _____ | |

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp. °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|----------|-----------|-------------|---------|-----------|-----------|
| 1 | 3.8 | Good | Yes | | | |

Chain-of-Custody Record

Client: CDM Services
 (Linn Energy)
 Mailing Address: P.O. Box 3470
Hobbs NM 88246
 Phone #: 575-499-5306

email or Fax#: Marineburton@gmail.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. |
|-------|------|--------|-------------------|----------------------|-------------------|----------|
| 03-17 | | soil | | Jew | ICE | 1710328 |
| ↓ | 1700 | ↓ | SW-SP18S | ↓ | ↓ | -001 |
| ↓ | 1705 | ↓ | SW-SP18E | ↓ | ↓ | -002 |

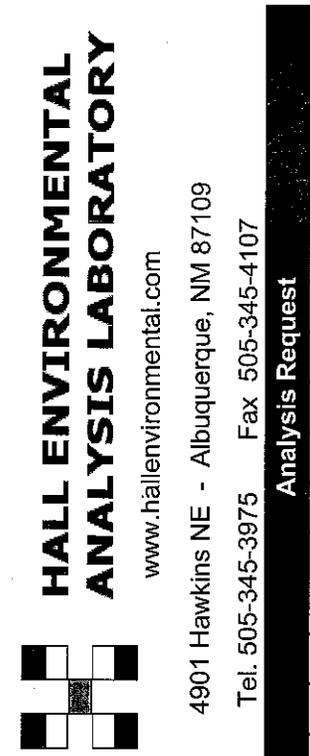
Date: 04/17 Time: 1400 Relinquished by: Mike Burton
 Date: 04/17 Time: 1900 Relinquished by: [Signature]

Turn-Around Time: Standard Rush
 Project Name: CMU N Inj #52
 Project #: _____

Project Manager: Mike Burton
 Sampler: Mike Burton
 On Ice: Yes No
 Sample Temperature: 3.8

| TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) |
|-----------------------------|--------------------|--------------------|---------------------------|---------------|--|------------------------------|-------------|-----------------|
| ✓ | | | | | ✓ | | | |
| ✓ | | | | | ✓ | | | |

Received by: [Signature] Date: 10/14/17 Time: 1400
 Received by: [Signature] Date: 10/15/17 Time: 0845



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Analysis Request | Remarks: |
|--|----------|
| BTEX + MTBE + TMB's (8021) | |
| BTEX + MTBE + TPH (Gas only) | |
| TPH 8015B (GRO / DRO / MRO) | |
| TPH (Method 418.1) | |
| EDB (Method 504.1) | |
| PAH's (8310 or 8270 SIMS) | |
| RCRA 8 Metals | |
| Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | |
| 8081 Pesticides / 8082 PCB's | |
| 8260B (VOA) | |
| 8270 (Semi-VOA) | |
| Air Bubbles (Y or N) | |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 11, 2017

Mike Burton
CM Services
PO Box 3470
Hobbs, NM 88241
TEL: (575) 499-5306
FAX

RE: CMU N inj S2

OrderNo.: 1710182

Dear Mike Burton:

Hall Environmental Analysis Laboratory received 12 sample(s) on 10/4/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-001

Matrix: SOIL

Client Sample ID: SW-SP2 N
Collection Date: 10/2/2017 3:00:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 12:49:05 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 10/5/2017 10:29:23 AM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 10/5/2017 10:29:23 AM | 34244 |
| Surr: DNOP | 93.5 | 70-130 | | %Rec | 1 | 10/5/2017 10:29:23 AM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/5/2017 2:02:05 PM | 34233 |
| Surr: BFB | 89.3 | 54-150 | | %Rec | 1 | 10/5/2017 2:02:05 PM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2017 2:02:05 PM | 34233 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/5/2017 2:02:05 PM | 34233 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/5/2017 2:02:05 PM | 34233 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/5/2017 2:02:05 PM | 34233 |
| Surr: 4-Bromofluorobenzene | 94.6 | 66.6-132 | | %Rec | 1 | 10/5/2017 2:02:05 PM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-002

Matrix: SOIL

Client Sample ID: SW-SP1 E
Collection Date: 10/2/2017 3:03:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 1:26:19 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 10/5/2017 11:43:26 AM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 10/5/2017 11:43:26 AM | 34244 |
| Surr: DNOP | 97.5 | 70-130 | | %Rec | 1 | 10/5/2017 11:43:26 AM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 10/5/2017 7:06:25 PM | 34233 |
| Surr: BFB | 88.8 | 54-150 | | %Rec | 1 | 10/5/2017 7:06:25 PM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 10/5/2017 7:06:25 PM | 34233 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 10/5/2017 7:06:25 PM | 34233 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 10/5/2017 7:06:25 PM | 34233 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 10/5/2017 7:06:25 PM | 34233 |
| Surr: 4-Bromofluorobenzene | 94.4 | 66.6-132 | | %Rec | 1 | 10/5/2017 7:06:25 PM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-003

Matrix: SOIL

Client Sample ID: SW-SP3 W
Collection Date: 10/2/2017 3:05:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 1:38:43 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 10/5/2017 12:08:11 PM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 10/5/2017 12:08:11 PM | 34244 |
| Surr: DNOP | 97.1 | 70-130 | | %Rec | 1 | 10/5/2017 12:08:11 PM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 10/5/2017 7:29:48 PM | 34233 |
| Surr: BFB | 88.5 | 54-150 | | %Rec | 1 | 10/5/2017 7:29:48 PM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 10/5/2017 7:29:48 PM | 34233 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 10/5/2017 7:29:48 PM | 34233 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 10/5/2017 7:29:48 PM | 34233 |
| Xylenes, Total | ND | 0.091 | | mg/Kg | 1 | 10/5/2017 7:29:48 PM | 34233 |
| Surr: 4-Bromofluorobenzene | 92.9 | 66.6-132 | | %Rec | 1 | 10/5/2017 7:29:48 PM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-004

Matrix: SOIL

Client Sample ID: SW-SP4 E
Collection Date: 10/2/2017 3:10:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 1:51:07 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 10/5/2017 12:33:01 PM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 10/5/2017 12:33:01 PM | 34244 |
| Surr: DNOP | 96.5 | 70-130 | | %Rec | 1 | 10/5/2017 12:33:01 PM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 10/5/2017 7:53:09 PM | 34233 |
| Surr: BFB | 88.0 | 54-150 | | %Rec | 1 | 10/5/2017 7:53:09 PM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2017 7:53:09 PM | 34233 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 10/5/2017 7:53:09 PM | 34233 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 10/5/2017 7:53:09 PM | 34233 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 10/5/2017 7:53:09 PM | 34233 |
| Surr: 4-Bromofluorobenzene | 93.9 | 66.6-132 | | %Rec | 1 | 10/5/2017 7:53:09 PM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-005

Matrix: SOIL

Client Sample ID: SW-SP5 W
Collection Date: 10/2/2017 3:15:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 2:03:32 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 10/5/2017 12:57:41 PM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 10/5/2017 12:57:41 PM | 34244 |
| Surr: DNOP | 98.2 | 70-130 | | %Rec | 1 | 10/5/2017 12:57:41 PM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/5/2017 8:16:32 PM | 34233 |
| Surr: BFB | 87.3 | 54-150 | | %Rec | 1 | 10/5/2017 8:16:32 PM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2017 8:16:32 PM | 34233 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/5/2017 8:16:32 PM | 34233 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/5/2017 8:16:32 PM | 34233 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/5/2017 8:16:32 PM | 34233 |
| Surr: 4-Bromofluorobenzene | 91.2 | 66.6-132 | | %Rec | 1 | 10/5/2017 8:16:32 PM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-006

Matrix: SOIL

Client Sample ID: SW-SP7 E
Collection Date: 10/2/2017 3:20:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 2:15:57 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/5/2017 1:22:27 PM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 10/5/2017 1:22:27 PM | 34244 |
| Surr: DNOP | 93.8 | 70-130 | | %Rec | 1 | 10/5/2017 1:22:27 PM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/5/2017 8:39:52 PM | 34233 |
| Surr: BFB | 88.4 | 54-150 | | %Rec | 1 | 10/5/2017 8:39:52 PM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2017 8:39:52 PM | 34233 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/5/2017 8:39:52 PM | 34233 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/5/2017 8:39:52 PM | 34233 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/5/2017 8:39:52 PM | 34233 |
| Surr: 4-Bromofluorobenzene | 94.1 | 66.6-132 | | %Rec | 1 | 10/5/2017 8:39:52 PM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-007

Matrix: SOIL

Client Sample ID: SW-SP9 W
Collection Date: 10/2/2017 3:25:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 2:53:10 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 10/5/2017 1:47:11 PM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 10/5/2017 1:47:11 PM | 34244 |
| Surr: DNOP | 92.9 | 70-130 | | %Rec | 1 | 10/5/2017 1:47:11 PM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/5/2017 9:03:13 PM | 34233 |
| Surr: BFB | 88.7 | 54-150 | | %Rec | 1 | 10/5/2017 9:03:13 PM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 10/5/2017 9:03:13 PM | 34233 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/5/2017 9:03:13 PM | 34233 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/5/2017 9:03:13 PM | 34233 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/5/2017 9:03:13 PM | 34233 |
| Surr: 4-Bromofluorobenzene | 94.8 | 66.6-132 | | %Rec | 1 | 10/5/2017 9:03:13 PM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-008

Matrix: SOIL

Client Sample ID: SW-SP11 N
Collection Date: 10/2/2017 3:30:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 3:05:35 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/5/2017 2:12:07 PM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 10/5/2017 2:12:07 PM | 34244 |
| Surr: DNOP | 92.4 | 70-130 | | %Rec | 1 | 10/5/2017 2:12:07 PM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 10/5/2017 9:26:34 PM | 34233 |
| Surr: BFB | 89.5 | 54-150 | | %Rec | 1 | 10/5/2017 9:26:34 PM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 10/5/2017 9:26:34 PM | 34233 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 10/5/2017 9:26:34 PM | 34233 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 10/5/2017 9:26:34 PM | 34233 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 10/5/2017 9:26:34 PM | 34233 |
| Surr: 4-Bromofluorobenzene | 96.0 | 66.6-132 | | %Rec | 1 | 10/5/2017 9:26:34 PM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-009

Matrix: SOIL

Client Sample ID: SW-SP13 SW
Collection Date: 10/2/2017 3:35:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 3:18:00 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 10/5/2017 2:36:53 PM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 10/5/2017 2:36:53 PM | 34244 |
| Surr: DNOP | 93.0 | 70-130 | | %Rec | 1 | 10/5/2017 2:36:53 PM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 10/5/2017 9:49:54 PM | 34233 |
| Surr: BFB | 90.5 | 54-150 | | %Rec | 1 | 10/5/2017 9:49:54 PM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 10/5/2017 9:49:54 PM | 34233 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 10/5/2017 9:49:54 PM | 34233 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 10/5/2017 9:49:54 PM | 34233 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 10/5/2017 9:49:54 PM | 34233 |
| Surr: 4-Bromofluorobenzene | 96.7 | 66.6-132 | | %Rec | 1 | 10/5/2017 9:49:54 PM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-010

Matrix: SOIL

Client Sample ID: SW-SP15 NW
Collection Date: 10/2/2017 3:40:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 3:30:25 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 10/5/2017 3:01:41 PM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 10/5/2017 3:01:41 PM | 34244 |
| Surr: DNOP | 93.3 | 70-130 | | %Rec | 1 | 10/5/2017 3:01:41 PM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/5/2017 10:13:15 PM | 34233 |
| Surr: BFB | 89.9 | 54-150 | | %Rec | 1 | 10/5/2017 10:13:15 PM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 10/5/2017 10:13:15 PM | 34233 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/5/2017 10:13:15 PM | 34233 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/5/2017 10:13:15 PM | 34233 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/5/2017 10:13:15 PM | 34233 |
| Surr: 4-Bromofluorobenzene | 95.6 | 66.6-132 | | %Rec | 1 | 10/5/2017 10:13:15 PM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-011

Matrix: SOIL

Client Sample ID: SW-SP16 E
Collection Date: 10/2/2017 3:45:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 3:42:49 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.3 | | mg/Kg | 1 | 10/5/2017 3:34:55 PM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 10/5/2017 3:34:55 PM | 34244 |
| Surr: DNOP | 90.9 | 70-130 | | %Rec | 1 | 10/5/2017 3:34:55 PM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/5/2017 10:36:33 PM | 34233 |
| Surr: BFB | 92.0 | 54-150 | | %Rec | 1 | 10/5/2017 10:36:33 PM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2017 10:36:33 PM | 34233 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/5/2017 10:36:33 PM | 34233 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/5/2017 10:36:33 PM | 34233 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/5/2017 10:36:33 PM | 34233 |
| Surr: 4-Bromofluorobenzene | 96.9 | 66.6-132 | | %Rec | 1 | 10/5/2017 10:36:33 PM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710182

Date Reported: 10/11/2017

CLIENT: CM Services
Project: CMU N inj S2
Lab ID: 1710182-012

Matrix: SOIL

Client Sample ID: SW-SP17 W
Collection Date: 10/2/2017 3:50:00 PM
Received Date: 10/4/2017 9:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/10/2017 3:55:13 PM | 34331 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 10/5/2017 3:59:40 PM | 34244 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 10/5/2017 3:59:40 PM | 34244 |
| Surr: DNOP | 94.2 | 70-130 | | %Rec | 1 | 10/5/2017 3:59:40 PM | 34244 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/6/2017 12:10:08 AM | 34233 |
| Surr: BFB | 86.8 | 54-150 | | %Rec | 1 | 10/6/2017 12:10:08 AM | 34233 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/6/2017 12:10:08 AM | 34233 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/6/2017 12:10:08 AM | 34233 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/6/2017 12:10:08 AM | 34233 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/6/2017 12:10:08 AM | 34233 |
| Surr: 4-Bromofluorobenzene | 93.1 | 66.6-132 | | %Rec | 1 | 10/6/2017 12:10:08 AM | 34233 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| | S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710182

11-Oct-17

Client: CM Services
Project: CMU N inj S2

| Sample ID MB-34331 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|------------------------------|----------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 34331 | RunNo: 46260 | | | | | | | | |
| Prep Date: 10/10/2017 | Analysis Date: 10/10/2017 | SeqNo: 1473216 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID LCS-34331 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|------------------------------|----------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 34331 | RunNo: 46260 | | | | | | | | |
| Prep Date: 10/10/2017 | Analysis Date: 10/10/2017 | SeqNo: 1473217 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.0 | 90 | 110 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710182

11-Oct-17

Client: CM Services
Project: CMU N inj S2

| Sample ID | 1710182-001AMS | SampType: | MS | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
|-----------------------------|-----------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | SW-SP2 N | Batch ID: | 34244 | RunNo: | 46122 | | | | | |
| Prep Date: | 10/4/2017 | Analysis Date: | 10/5/2017 | SeqNo: | 1467626 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42 | 9.6 | 47.76 | 1.915 | 84.4 | 55.8 | 122 | | | |
| Surr: DNOP | 4.4 | | 4.776 | | 92.5 | 70 | 130 | | | |

| Sample ID | 1710182-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
|-----------------------------|------------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | SW-SP2 N | Batch ID: | 34244 | RunNo: | 46122 | | | | | |
| Prep Date: | 10/4/2017 | Analysis Date: | 10/5/2017 | SeqNo: | 1467631 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45 | 9.9 | 49.46 | 1.915 | 87.2 | 55.8 | 122 | 6.45 | 20 | |
| Surr: DNOP | 4.5 | | 4.946 | | 90.5 | 70 | 130 | 0 | 0 | |

| Sample ID | LCS-34244 | SampType: | LCS | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 34244 | RunNo: | 46122 | | | | | |
| Prep Date: | 10/4/2017 | Analysis Date: | 10/5/2017 | SeqNo: | 1467640 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 43 | 10 | 50.00 | 0 | 85.1 | 73.2 | 114 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.3 | 70 | 130 | | | |

| Sample ID | MB-34244 | SampType: | MBLK | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | | |
|--------------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 34244 | RunNo: | 46122 | | | | | |
| Prep Date: | 10/4/2017 | Analysis Date: | 10/5/2017 | SeqNo: | 1467644 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.3 | | 10.00 | | 92.7 | 70 | 130 | | | |

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710182

11-Oct-17

Client: CM Services
Project: CMU N inj S2

| Sample ID MB-34233 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 34233 | | RunNo: 46134 | | | | | | | |
| Prep Date: 10/4/2017 | Analysis Date: 10/5/2017 | | SeqNo: 1468607 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 880 | | 1000 | | 87.8 | 54 | 150 | | | |

| Sample ID LCS-34233 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 34233 | | RunNo: 46134 | | | | | | | |
| Prep Date: 10/4/2017 | Analysis Date: 10/5/2017 | | SeqNo: 1468608 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 29 | 5.0 | 25.00 | 0 | 116 | 76.4 | 125 | | | |
| Surr: BFB | 1000 | | 1000 | | 101 | 54 | 150 | | | |

| Sample ID 1710182-002AMS | SampType: MS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|---------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: SW-SP1 E | Batch ID: 34233 | | RunNo: 46134 | | | | | | | |
| Prep Date: 10/4/2017 | Analysis Date: 10/5/2017 | | SeqNo: 1468611 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 32 | 4.6 | 23.00 | 0 | 140 | 77.8 | 128 | | | S |
| Surr: BFB | 940 | | 920.0 | | 102 | 54 | 150 | | | |

| Sample ID 1710182-002AMSD | SampType: MSD | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|----------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: SW-SP1 E | Batch ID: 34233 | | RunNo: 46134 | | | | | | | |
| Prep Date: 10/4/2017 | Analysis Date: 10/5/2017 | | SeqNo: 1468612 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 32 | 4.7 | 23.63 | 0 | 135 | 77.8 | 128 | 1.09 | 20 | S |
| Surr: BFB | 960 | | 945.2 | | 101 | 54 | 150 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710182

11-Oct-17

Client: CM Services
Project: CMU N inj S2

| Sample ID MB-34233 | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 34233 | | RunNo: 46134 | | | | | | | |
| Prep Date: 10/4/2017 | Analysis Date: 10/5/2017 | | SeqNo: 1468636 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.94 | | 1.000 | | 94.0 | 66.6 | 132 | | | |

| Sample ID LCS-34233 | SampType: LCS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 34233 | | RunNo: 46134 | | | | | | | |
| Prep Date: 10/4/2017 | Analysis Date: 10/5/2017 | | SeqNo: 1468637 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.025 | 1.000 | 0 | 103 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 105 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 106 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.97 | | 1.000 | | 96.9 | 66.6 | 132 | | | |

| Sample ID 1710182-001AMS | SampType: MS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|---------------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: SW-SP2 N | Batch ID: 34233 | | RunNo: 46134 | | | | | | | |
| Prep Date: 10/4/2017 | Analysis Date: 10/5/2017 | | SeqNo: 1468639 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.023 | 0.9158 | 0 | 112 | 80.9 | 132 | | | |
| Toluene | 1.0 | 0.046 | 0.9158 | 0.01050 | 113 | 79.8 | 136 | | | |
| Ethylbenzene | 1.1 | 0.046 | 0.9158 | 0 | 118 | 79.4 | 140 | | | |
| Xylenes, Total | 3.3 | 0.092 | 2.747 | 0 | 119 | 78.5 | 142 | | | |
| Surr: 4-Bromofluorobenzene | 0.92 | | 0.9158 | | 101 | 66.6 | 132 | | | |

| Sample ID 1710182-001AMSD | SampType: MSD | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|----------------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: SW-SP2 N | Batch ID: 34233 | | RunNo: 46134 | | | | | | | |
| Prep Date: 10/4/2017 | Analysis Date: 10/5/2017 | | SeqNo: 1468640 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.024 | 0.9615 | 0 | 108 | 80.9 | 132 | 1.09 | 20 | |
| Toluene | 1.1 | 0.048 | 0.9615 | 0.01050 | 110 | 79.8 | 136 | 1.98 | 20 | |
| Ethylbenzene | 1.1 | 0.048 | 0.9615 | 0 | 116 | 79.4 | 140 | 2.89 | 20 | |
| Xylenes, Total | 3.4 | 0.096 | 2.885 | 0 | 116 | 78.5 | 142 | 2.80 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.96 | | 0.9615 | | 99.4 | 66.6 | 132 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client Name: **CM SERVICES**

Work Order Number: **1710182**

RcptNo: **1**

Received By: **Sophia Campuzano** 10/4/2017 9:10:00 AM

Completed By: **Ashley Gallegos** 10/4/2017 9:31:16 AM

Reviewed By: **SRL 10/04/17**

Sophia Campuzano
AJG

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

| |
|--|
| # of preserved bottles checked for pH: _____ (<2 or >12 unless noted) Adjusted? _____ Checked by: _____ |
|--|

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 3.6 | Good | Yes | | | |

Chain-of-Custody Record

Client: C+M Services
(Linnenergy)
 Mailing Address: P.O. Box 3470
Hobbs NM 88240
 Phone #: 575-499-5306

email or Fax#: Marinburton@gmail.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush
 Project Name:
CMU N ins
#52
 Project #:
 Project Manager:
Mike Burton
 Sampler:
Mike Burton

On Ice: Yes No
 Sample Temperature: 3.6
 Container Type and #
 Preservative Type
 HEAL No.
1710182

| Date | Time | Matrix | Sample Request ID |
|---------|------|--------|-------------------|
| 10-2-17 | 1500 | Soil | SW-SP 2 N |
| 1303 | | | SW-SP 1 E |
| 1505 | | | SW-SP 3 W |
| 1510 | | | SW-SP 4 E |
| 1515 | | | SW-SP 5 W |
| 1520 | | | SW-SP 7 E |
| 1525 | | | SW-SP 9 W |
| 1530 | | | SW-SP 11 N |
| 1535 | | | SW-SP 13 SW |
| 1540 | | | SW-SP 15 NW |
| 1545 | | | SW-SP 16 E |
| 1550 | | | SW-SP 17 W |

Relinquished by:
Mike Burton
 Date: 10-3-17 Time: 1015
 Relinquished by:
[Signature]
 Date: 10/3/17 Time: 1900

| Analysis Request | Remarks: |
|--|----------|
| BTEX + MTBE + TMBs (8021) | ✓ |
| BTEX + MTBE + TPH (Gas only) | ✓ |
| TPH 8015B (GRO / DRO / MRO) | ✓ |
| TPH (Method 418.1) | |
| EDB (Method 504.1) | |
| PAH's (8310 or 8270 SIMS) | |
| RCRA 8 Metals | ✓ |
| Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | ✓ |
| 8081 Pesticides / 8082 PCB's | |
| 8260B (VOA) | |
| 8270 (Semi-VOA) | |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.