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Oil Conservation Division

Incide	ent ID	nAB1723329504
Distri	ct RP	2RP-4351
Facili	ty ID	
Appli	cation ID	

Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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

Printed Name: Charles R. Beauvais II	Title: Senior Environmental Engineer
Signature: Charles R. Beauvais 99	Date: 4/11/2023
email: charles.r.beauvais@conocophillips.com	Telephone: <u>575-988-2043</u>
OCD Orth	
OCD Only	
Received by:	Date:

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

Closure Approved by: Buttan Hall	Date: <u>5/2/2023</u>
Printed Name: Brittany Hall	Title: Environmental Specialist



REMEDIATION SUMMARY AND

RISK-BASED SITE CLOSURE REQUEST

COG Operating, LLC GJ West Coop Unit #108 Eddy County, New Mexico Unit Letter "E", Section 28, Township 17 South, Range 29 East Latitude 32.8073502° North, Longitude 104.0862198° West NMOCD Reference No. 2RP-4351

COG Operating, LLC GJ West Coop Unit #011 Eddy County, New Mexico Unit Letter "E", Section 28, Township 17 South, Range 29 East Latitude 32.8073502° North, Longitude 104.0862198° West NMOCD Reference No. 2RP-4454

Prepared For:

COG Operating, LLC 600 W Illinois Avenue Midland, Texas 79701

Prepared By:

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April 2019

Jared E. Stoffel, PG Staff Geologist

Curt Stanley Senior Project Manager

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- Appendix A Laboratory Analytical Reports
- Appendix B General Photographs
- Appendix C Release Notification and Corrective Action (Form C-141)

INTRODUCTION & BACKGROUND INFORMATION

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG), has prepared this *Remediation Summary and Risk-Based Soil Closure Request* for the Release Sites known as GJ West Coop Unit #108 (2RP-4351) and GJ West Coop Unit #011 (2RP-4454). The legal description of the Sites is Unit Letter "E", Section 28, Township 17 South, Range 29 East, in Eddy County, New Mexico. The subject property is owned by the State of New Mexico and administered by New Mexico State Land Office (NMSLO). Based on the proximity, cause and current status of each of the Release Sites, the Sites were remediated concurrently under one (1) Approved Workplan. A "Site Location Map" is provided as Figure 1. General Photographs are provided in Appendix B.

GJ West Coop Unit #108 (2RP-4351)

On August 7, 2017, COG discovered a release had occurred from the previously plugged and abandoned GJ West Coop Unit #108 well. During initial response activities, the affected portion of the well casing was exhumed and the Release was mitigated. The initial Release Notification and Corrective Action (Form C-141) indicated approximately three thousand, seventy-five (3,075) barrels (bbls) of produced water was released with approximately three thousand, fifty-five (3,055) bbls of produced water recovered. After the completion of recovery efforts it was determined seven thousand, seven hundred eleven (7,711) bbls of produced water was recovered, which will be reflected on the Final C-141. During initial response activities, released fluids were diverted into a makeshift containment in an effort to minimize the affected area and assist in fluid recovery. In an effort to exhume the casing, isolate the release, and re-plug the well, an approximate twenty-eight (28) ft. excavation was conducted around the affected well. After completion of excavation and sloping activities, approximately 7,847 cubic yards (cy) of affected soil was excavated from an area measuring approximately twenty-two thousand (22,000) sq. ft. Excavated soil was transported to an NMOCD-approved disposal facility. A copy of the initial Form C-141 for the GJ West Coop Unit #108 (2RP-4351) is provided in Appendix C.

GJ West Coop Unit #011 (2RP-4454)

On October 15, 2017, a similar release occurred on an adjacent plugged and abandoned well, the GJ West Coop Unit #011 (2RP-4454). During initial response activities, the release was mitigated and the affected well was re-plugged. The initial Release Notification and Corrective Action (Form C-141) indicated an unknown volume of produced water was released with approximately eight thousand, seven hundred forty (8,740) bbls of produced water recovered. After completion of recovery efforts it was determined eleven thousand, four hundred thirty (11,430) bbls of produced water was recovered, which will be reflected on the Final C-141. The Release affected an area measuring approximately sixteen thousand (16,000) sq. ft. A majority of the Release was limited to the former well pad location and the adjacent well pad to the south of the subject well. Portions of the release affected the caliche access road and an area within the pasture north of the subject well. A copy of the initial Form C-141 for the GJ West Coop Unit #011 is provided in Appendix C.

NMOCD SITE CLASSIFICATION

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 28, Township 17 South, Range 29 East. A

reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred seventy-five (175) feet (ft.) below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No water wells were observed within one-thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one-thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one-thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one-thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. Based on the NMOCD Site Classification criteria, the Recommended Remediation Action Levels (RRAL) are 10 mg/kg for benzene, 50 mg/kg for benzene, toluene, ethylbenzene and xylenes (BTEX), and 5,000 mg/kg for total petroleum hydrocarbons (TPH). As per the NMOCD, the Recommended Remediation Action Levels for chloride will be 600 mg/kg.

INITIAL INVESTIGATION AND PROPOSED REMEDIATION WORKPLAN

GJ West Coop Unit #108 (2RP-4351)

On August 17, 2017, during initial response activities and exhumation of the affected well casing, a COG representative collected four (4) soil samples (S1 3'-4', S1 5'-6', S1 13'-14', and S1 16'-17') southwest of the affected casing. The collected soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of chloride concentrations using method 4500 Cl-B. Laboratory analytical results indicated chloride concentrations ranged from 28,000 mg/kg in soil sample S1 5'-6' to 992 mg/kg in soil sample S1 3'-4'. Impacted soil represented by soil samples S1 3'-4', S1 5'-6', S1 13'-14', and S1 16'-17' was excavated and transported to an NMOCD-approved disposal facility during initial response activities. Please reference Figure 2A – Site & Sample Location Map – Initial Investigation (2RP-4351).

On March 22 and 23, 2018, TRC conducted an initial soil investigation at the Release Site. During the initial soil investigation, eight (8) test trenches (NE-1, SE-2, SE-1, S-2, S-1, SW-1, NW-1, and N-1) were advanced at the Release Site in an effort to characterize the affected area. The test trenches were advanced vertically and horizontally to the maximum extent practicable, or until chloride field test results suggested soil was no longer affected above the NMOCD regulatory guidelines for chloride concentrations.

Test trench NE-1 was advanced radially toward the northeast from the affected well. During the advancement of the test trench, six (6) soil samples (NE-1A @ 18', NE-1B @ 10', NE-1B @ 20', NE-1C @ 3', NE-1C @ 12', and NE-1C @ 20') were collected from three (3) sample points and submitted to Xenco Laboratories in Midland, Texas for analysis of chloride concentrations using Method E300. Laboratory analytical results indicated chloride concentrations ranged from 723 mg/kg in soil sample NE-1A @ 18' to 72.4 mg/kg in soil sample NE-1C @ 20'. Soil samples collected from sample points NE-1A and NE-1B were analyzed for concentrations of BTEX using Method SW 846-8021B and TPH using Method SW 846-8015M. Analytical results indicated BTEX and TPH concentrations were less than the applicable laboratory reporting limit (RL) in each of the submitted soil samples. Based on laboratory analytical results, soil was not affected above the NMOCD regulatory guidelines for chloride horizontally toward the northeast beyond sample point NE-1B.

Test trench SE-2 was advanced radially toward the east-southeast from the affected well. During the advancement of the test trench, thirteen (13) soil samples (SE-2A @ 18', SE-2B @ 10', SE-2B @ 20', SE-2C @ 3', SE-2C @ 6', SE-2C @ 12', SE-2C @ 20', SE-2D @ 3', SE-2D @ 9', SE-2D @ 12', SE-2D @ 20', SE-2E @ 3', and SE-2E @ 6') were collected from five (5) sample points and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 20,600 mg/kg in soil sample SE-2D @ 3' to 48.7 mg/kg in soil sample SE-2B @ 20'. Soil samples collected from sample points SE-2A and SE-2B were analyzed for concentrations of BTEX and TPH, which were determined to be less than the applicable laboratory RL in each of the submitted soil samples. Laboratory analytical results indicated soil was not affected above the NMOCD regulatory guidelines for chloride beyond eighteen (18) ft. bgs in the area characterized by sample point SE-2A, ten (10) ft. bgs in the area characterized by sample point SE-2B, six (6) ft. bgs in the area characterized by sample point SE-2C, twelve (12) ft. bgs in the area characterized by sample point SE-2D and six (6) ft. bgs in the area characterized by sample point SE-2E. Review of laboratory analytical results suggests impacted soil affected above the NMOCD regulatory guidelines for chloride concentrations in the areas characterized by sample points SE-2A and SE-2B was removed during initial response activities. Impacted soil affected above the NMOCD regulatory guidelines remaining in-situ in the areas characterized by sample points SE-2C, SE-2D, and SE-2E was limited to the top six (6) ft. to twelve (12) ft bgs.

Test trench SE-1 was advanced radially toward the southeast from the affected well. During the advancement of the test trench, six (6) soil samples (SE-1A @ 18', SE-1B @ 10', SE-1B @ 20', SE-1C @ 3', SE-1C @ 12' and SE-1C @ 20') were collected from three (3) sample points and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 2,940 mg/kg in soil sample SE-1B @ 10' to 65.7 mg/kg in soil sample SE-2C @ 20'. Soil samples collected from sample points SE-1A and SE-1B were analyzed for concentrations of BTEX and TPH, which were determined to be less than the applicable laboratory RL in each of the submitted soil samples. Based on laboratory analytical results, soil was not affected above the NMOCD regulatory guidelines for chloride concentrations horizontally toward the southeast beyond sample point SE-1C.

Test trench S-2 was advanced on the southern edge of the existing excavation. During the advancement of the test trench, three (3) soil samples (S-2 @ 3', S-2 @ 12', and S-2 @ 20') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 169 mg/kg in soil sample S-2 @ 3' to less than the laboratory RL in soil sample S-2 @ 20'. Based on laboratory analytical results, soil was not affected above the NMOCD regulatory guidelines for chloride concentrations horizontally toward the south beyond test trench S-2.

Test trench S-1 was advanced radially toward the south-southwest from the affected well. During the advancement of the test trench, six (6) soil samples (S-1A @ 18', S-1B @ 10', S-1B @ 20', S-1C @ 3', S-1C @ 12', and SE-1C @ 20') were collected from three (3) sample points and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 18,500 mg/kg in soil sample S-1B @ 10' to less than the laboratory RL in soil sample S-1C @ 20'. Soil samples collected from sample points S-1A and S-1B were analyzed for concentrations of BTEX and TPH, which were determined to be less than the applicable laboratory RL in each of the submitted soil samples. Based on laboratory analytical results, soil was not affected above the NMOCD regulatory guidelines for chloride

concentrations horizontally toward the south-southwest beyond sample point S-1C. Impacted soil in the areas characterized by sample points S-1A and S-1B was excavated in an effort to increase the stability of the southern portion of the excavation. Excavated soil was stockpiled on-site, atop an impermeable liner pending final disposition.

Test trench SW-1 was advanced radially toward the southwest from the affected well. During the advancement of the test trench, six (6) soil samples (SW-1A @ 18', SW-1B @ 10', SW-1B @ 20', SW-1C @ 3', SW-1C @ 12', and SW-1C @ 20') were collected from three (3) sample points and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 257 mg/kg in soil sample SW-1C @ 3' to 25.8 mg/kg in soil sample SW-1C @ 20'. Soil samples collected from sample points SW-1A and SW-1B were analyzed for concentrations of BTEX and TPH, which were determined to be less than the applicable laboratory RL in each of the submitted soil samples. Review of laboratory analytical results suggests impacted soil affected above the NMOCD regulatory guidelines for chloride concentrations in the areas characterized by test trench SW-1 was removed during initial response activities.

Test trench NW-1 was advanced radially toward the northwest from the affected well. During the advancement of the test trench, eleven (11) soil samples (NW-1A @ 18', NW-1B @ 10', NW-1B @ 20', NW-1C @ 3', NW-1C @ 6', NW-1C @ 9', NW-1C @ 20', NW-1D @ 3', NW-1D @ 6', NW-1D @ 9', and NW-1D @ 20') were collected from four (4) sample points and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 5,700 mg/kg in soil sample NW-1C @ 20' to 29.5 mg/kg in soil sample NW-1D @ 3'. Soil samples collected from sample points NW-1A and NW-1B were analyzed for concentrations of BTEX and TPH, which were determined to be less than the applicable laboratory RL in each of the submitted soil samples. During the advancement of the test trench, evidence of a historical drilling reserve pit were discovered. Based on the presence of a historical drilling reserve pit were discovered. Based on the presence of a historical drilling reserve pit were discovered. Based on the presence of a historical drilling reserve pit were discovered. Based on the presence of a historical drilling reserve pit were discovered. Based on the presence of a historical drilling reserve pit were discovered. Based on the presence of a historical drilling reserve pit were discovered. Based on the presence of a historical drilling reserve pit were discovered. Based on the presence of a historical drilling reserve pit were discovered.

Test trench N-1 was advanced radially toward the north from the affected well. During the advancement of the test trench, four (4) soil samples (N-1A @ 18', N-1B @ 10', N-1B @ 20', and N-1C @ 3') were collected from three (3) sample points and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 1,260 mg/kg in soil sample N-1A @ 18' to 583 mg/kg in soil sample N-1C @ 3'. Soil samples collected from sample points N-1A and N-1B were analyzed for concentrations of BTEX and TPH, which were determined to be less than the applicable laboratory RL in each of the submitted soil samples, with the exception of soil sample N-1B @ 10', which exhibited a TPH concentration of 245.3 mg/kg. During the advancement of the test trench N-1, evidence of a historical drilling reserve pit was discovered. Based on the presence of the historical drilling reserve pit, further advancement of test trench N-1 was precluded.

Following the advancement of test trenches NE-1, SE-2, SE-1, S-2, S-1, SW-1, NW-1, N-1, and stabilizing portions of the open excavation, the excavated area was backfilled to approximately nineteen (19') ft. bgs with locally sourced, non-impacted material, in an effort to mitigate safety hazards and facilitate further investigation of soil impact from within the open excavation.

On March 29, 2018, following the backfilling of the excavated area to nineteen (19) ft. bgs, two (2) test trenches (RP-N and RP-S) were advanced adjacent to the release point in an effort to determine the vertical extent of soil impact.

Test trench RP-N was advanced approximately ten (10) ft. north of the affected well. During the advancement of the test trench, two (2) soil samples (RP-N @ 28' and RP-N @ 37') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated soil samples RP-N @ 28' and RP-N @ 37' exhibited chloride concentrations of 3,440 mg/kg and 8,560 mg/kg, respectively. Further advancement of test trench RP-N was precluded due to the limitations of the heavy equipment. Based on laboratory analytical results, further delineation was required in the area characterized by test trench RP-N.

Test trench RP-S was advanced approximately ten (10) ft. south of the affected well. During the advancement of the test trench, three (3) soil samples (RP-S @ 28', RP-S @ 31', and RP-S @ 34') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 1,830 mg/kg in soil sample RP-S @ 28' to 853 mg/kg in soil sample RP-S @ 34'.

Additionally, soil samples were collected from deeper intervals in the areas characterized by sample points N-1A and NW-1A in an effort to further characterize soil impacts in the vicinity of the inferred historic drilling reserve pit. During the advancement of the test trenches, six (6) soil samples (N-1A @ 20', N-1A @ 23', N-1A @ 26',NW-A @ 20', NW-A @ 23', and NW-A @ 29') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 564 mg/kg in soil sample N-1A @ 20' to 179 mg/kg in soil sample NW-A @ 20'. Laboratory analytical results indicated chloride concentrations y guidelines in each of the submitted soil samples.

On April 24, 2018, TRC collected one (1) soil sample (S-3) from soil remaining in-situ beneath the former makeshift containment utilized to contain the release and assist in fluid recovery. The collected soil sample was submitted to the laboratory for analysis of chloride concentrations, which were determined to be 10,000 mg/kg. Please reference Table 1 – Concentrations of Benzene, BTEX, TPH and Chloride in Soil (2RP-4454). Laboratory analytical results are provided as Appendix A.

GJ West Coop Unit #011 (2RP-4454)

On March 30, 2018, an initial investigation was conducted at the adjacent Release Site. During the initial investigation, six (6) test trenches (RP, RP-2, DT-1, DT-2, DT-3 and N) were advanced at the Release Site in an effort to characterize the vertical extent of soil impacts. Please reference Figure 2B – Site & Sample Location Map – Initial Investigation (2RP-4454).

Test trench RP was advanced approximately ten (10) ft. south of the affected well. During the advancement of the test trench, three (3) soil samples (RP @ 3', RP @ 9', and RP @ 18') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 1,890 mg/kg in soil sample RP @ 9' to 241 mg/kg in soil sample RP @ 18'. Soil samples RP @ 3' and RP @ 18' were analyzed for concentrations of BTEX and/or TPH, which were determined to be below the applicable

laboratory RL in each of the analyzed soil samples. Based on laboratory analytical results, soil was not affected above the NMOCD regulatory guidelines for chloride concentrations beyond eighteen (18) ft. bgs in the area characterized by test trench RP.

Test trench RP-2 was advanced approximately ten (10) ft. north of the affected well. During the advancement of the test trench, three (3) soil samples (RP-2 @ 3', RP-2 @ 6', and RP-2 @ 18') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 1,410 mg/kg in soil sample RP-2 @ 3' to 105 mg/kg in soil sample RP-2 @ 18'. Soil samples RP-2 @ 3' and RP-2 @ 18' were also analyzed for concentrations of BTEX and/or TPH, which were determined to be below the applicable laboratory RL in each of the analyzed soil samples. Based on laboratory analytical results, soil was not affected above the NMOCD regulatory guidelines for chloride concentrations beyond six (6) ft. bgs in the area characterized by test trench RP-2.

Test trench DT-1 was advanced in the central portion of the release flow path. During the advancement of the test trench, three (3) soil samples (DT-1 @ 3', DT-1 @ 6', and DT-1 @ 18') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 2,900 mg/kg in soil sample DT-1 @ 3' to 101 mg/kg in soil sample DT-1 @ 6'. Soil samples DT-1 @ 3' and DT-1 @ 18' were analyzed for concentrations of BTEX and/or TPH, which were determined to be below the applicable laboratory RL in each of the analyzed soil samples. Based on laboratory analytical results, soil was not affected above the NMOCD regulatory guidelines for chloride beyond six (6) ft. bgs in the area characterized by test trench DT-1.

Test trench DT-2 was advanced in the south-central portion of the release flow path. During the advancement of the test trench, three (3) soil samples (DT-2 @ Surface, DT-2 @ 4', and DT-2 @ 8') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 53,100 mg/kg in soil sample DT-2 @ Surface to 16.4 mg/kg in soil sample DT-2 @ 4'. Soil samples DT-2 @ Surface and DT-2 @ 8' were analyzed for concentrations of BTEX and/or TPH, which were determined to be below the applicable laboratory RL in each of the analyzed soil samples, with the exception of soil sample DT-2 @ SURFACE, which exhibited a TPH concentration of 26.1 mg/kg. Based on laboratory analytical results, soil was not affected above the NMOCD regulatory guidelines for chloride concentrations beyond four (4) ft. bgs in the area characterized by test trench DT-2.

Test trench DT-3 was advanced in the southern portion of the release flow path. During the advancement of the test trench, three (3) soil samples (DT-3 @ Surface, DT-3 @ 4', and DT-3 @ 8') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 15,600 mg/kg in soil sample DT-3 @ Surface to 7.10 mg/kg in soil sample DT-3 @ 4'. Soil samples DT-3 @ Surface and DT-3 @ 8' were analyzed for concentrations of BTEX and/or TPH, which were determined to be below the applicable laboratory RL in each of the analyzed soil samples, with the exception of soil sample DT-3 @ SURFACE, which exhibited a TPH concentration of 66.1 mg/kg. Based upon laboratory analytical results, soil was not affected above the NMOCD regulatory guidelines for chloride concentrations beyond four (4) ft. bgs in the area characterized by test trench DT-3.

Test trench N was advanced in the northern portion of the release flow path, adjacent to the affected well. During the advancement of the test trench, three (3) soil samples (N @ 3', N @ 6',

and N @ 18') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 1,390 mg/kg in soil sample N @ 6' to 178 mg/kg in soil sample N @ 3'. Soil samples N @ 3' and N @ 18' were analyzed for concentrations of BTEX and/or TPH, which were determined to be below the applicable laboratory RL in each of the analyzed soil samples. Based on laboratory analytical results, further delineation was required in the area characterized by test trench N.

Additionally, TRC advanced six (6) test trenches (N-2, E, E-2, W, W-2 and S) at the inferred margins of the affected area in an effort to characterize the horizontal extent of soil impact. During the advancement of the test trenches, eighteen (18) soil samples (N-2 @ 3', N-2 @ 6', N-2 @ 18', E @ 3', E @ 9', E @ 18', E-2 @ 3', E-2 @ 9', E-2 @ 18', W @ 3', W @ 6', W @ 18', W-2 @ Surface, W-2 @ 2', W-2 @ 8', S @ Surface, S @ 2', and S @ 8') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 1,840 mg/kg in soil sample S @ Surface to below the applicable laboratory RL in soil sample W-2 @ 8'. Chloride concentrations were below the NMOCD regulatory guidelines in each of the submitted soil samples, with the exception of soil sample S @ Surface, which exhibited a chloride concentration of 1,840 mg/kg. Soil samples N-2 (a) 3', N-2 (a) 18', E (a) 3', E (a) 18', E-2 (a) 3', E-2 (a) 18', W (a) 3', W (a) 18', W-2 (a) Surface, W-2 @ 8', S @ Surface, and S @ 8' were analyzed for concentrations of BTEX and/or TPH, which were determined to be below the applicable laboratory RL in each of the analyzed soil samples, with the exception of soil sample S @ Surface, which exhibited a TPH concentration of 36.3 mg/kg. BTEX and TPH concentrations were below the NMOCD regulatory guidelines for TPH and BTEX concentrations in each of the analyzed soil samples. Based on laboratory analytical results, further delineation and excavation was required south of the area characterized by soil sample S @ Surface. Please reference Table 2 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil (2RP-4454).

On July 19, 2018, COG submitted a *Soil Investigation Summary and Proposed Remediation Workplan (Workplan)* to the NMOCD and NMSLO, proposing the following remediation activities designed to advance the Sites toward an approved closure:

GJ West Coop Unit #108 (2RP-4351)

- Advance the upper four (4) ft. of the current open excavation sidewall in the area characterized by test trench SE-2 to beyond sample point SE-2E. Excavated soil will be stockpiled on-site, atop an impermeable liner pending final disposition.
- Advance the upper four (4) ft. of the current open excavation sidewall in the area characterized by test trench NE-1 to sample point NE-1C. Excavated soil will be placed into a separate soil stockpile, pending laboratory analysis for potential use as "clean" backfill.
- Advance the upper four (4) ft. of the current open excavation sidewall in the area characterized by test trench N-1 to beyond sample point N-1C. Excavated soil will be placed into a separate soil stockpile, pending laboratory analysis for potential use as "clean" backfill.
- Advance the upper four (4) ft. of the current open excavation sidewall in the area characterized by test trench NW-1 to sample point NW-1C. Excavated soil will be placed

into a separate soil stockpile, pending laboratory analysis for potential use as "clean" backfill.

- Laboratory analytical results indicated further excavation is not required in the area represented by test trench SW.
- Advance the upper four (4) ft. of the current open excavation sidewall in the area characterized by test trench S-1 to sample point S-1C. Excavated soil will be placed into a separate soil stockpile, pending laboratory analysis for potential use as "clean" backfill.
- Advance the upper four (4) ft. of the current open excavation sidewall in the area characterized by soil sample S-3 @ 4' to beyond sample point S-2. Excavated soil will be stockpiled on-site, atop an impermeable liner pending final disposition.
- Advance the upper four (4) ft. of the current open excavation sidewall in the area characterized by test trench SE-1 to beyond sample point SE-1C. Excavated soil will stockpiled on-site, atop an impermeable liner pending final disposition.
- After advancing the excavation sidewalls horizontally at four (4) ft. bgs, effectively "benching" the open excavation, and receiving laboratory analytical results from confirmation soil samples, install a bentonite or polyurethane liner on the floor of the excavated area at approximately nineteen (19) ft. bgs. This engineering control is designed to mitigate the vertical migration of contaminants. During the installation of the liner an approximate six (6)-inch layer of "pad sand" will be installed above and below the liner in an effort to maintain its integrity during backfilling activities.
- After installing the liner on the floor of the excavated area, an eight (8)-inch PVC conduit will be installed, and extended vertically to the surface, in the area requiring additional vertical delineation, represented by test trench RP-N.
- After receiving laboratory analytical results from confirmation soil samples and installing the bentonite or polyurethane liner and associated PVC casing, backfill the excavated area to approximately four (4) ft. bgs utilizing stockpiled soil generated from "benching" the subject excavation, excavation activities associated with the remediation of GJ West Coop Unit #011 and locally sourced non-impacted material.
- After backfilling the excavated area to four (4) ft. bgs, install a second bentonite or polyurethane liner at four (4) ft. bgs atop impacted soil exhibiting chloride concentrations above the NMOCD regulatory guidelines. The liner will be extended vertically along the excavation sidewalls in the area of the inferred historical drilling reserve pit in an effort to limit the amount of moisture shed toward the north in the vicinity of the historical drilling reserve pit. This engineering control is designed to mitigate the vertical migration of contaminants left in-situ along with contaminants within portions of the proposed fill material. During the installation of the liner an approximate six (6)-inch layer of "pad sand" will be installed above and below the liner in an effort to maintain its integrity during backfilling activities.
- The eight (8)-inch PVC conduit will be extended through the second bentonite or polyurethane liner, to the surface for the advancement of a proposed investigative soil boring.
- After installing the second bentonite or polyurethane liner, backfill the remaining excavated area with locally sourced, non-impacted topsoil.
- Utilizing mechanical equipment, advance one (1) investigative soil bore through the established PVC casing in an effort to determine the vertical extent of chloride impact. The investigative soil bore will be advanced until chloride field screen results suggests two consecutive soil samples collected at five (5) ft. intervals exhibit chloride

concentrations below the NMOCD regulatory guidelines; soil samples will also be collected for confirmation laboratory analysis.

GJ West Coop Unit #011 (2RP-4454)

- Utilizing mechanical equipment, excavate impacted soil within the release margins in the area characterized by test trench DT-1 to a depth of approximately four (4) to six (6) ft. bgs or until laboratory analytical results from confirmation soil samples indicate chloride concentrations are below the NMOCD regulatory guidelines. Advance the excavation sidewalls until laboratory analytical results indicate chloride concentrations are below the NMOCD regulatory guidelines. Advance the excavation sidewalls until laboratory analytical results indicate chloride concentrations are below the NMOCD regulatory guidelines. Excavated soil will be stockpiled on-site, atop an impermeable liner pending final disposition.
- Excavate impacted soil within the release margins in the areas characterized by test trenches DT-2 and DT-3 to a depth of approximately one (1) to four (4) ft. bgs or until laboratory analytical results from confirmation soil samples indicate chloride concentrations are below the NMOCD regulatory guidelines. Advance the excavation sidewalls until laboratory analytical results indicate chloride concentrations are below the NMOCD regulatory guidelines. Excavated soil will be stockpiled on-site, atop an impermeable liner pending final disposition.
- Excavate impacted soil within the release margins in the areas characterized by test trenches RP, RP-2 and N to a depth of approximately four (4) ft. bgs. Advance the excavation sidewalls until laboratory analytical results indicate chloride concentrations are below the NMOCD regulatory guidelines. Excavated soil will be stockpiled on-site, atop an impermeable liner pending final disposition.
- Install a bentonite or polyurethane liner on the floor of the excavation at approximately four (4) ft bgs in the areas characterized by test trenches RP, RP-2 and N. This engineering control is designed to mitigate the vertical migration of contaminants left insitu. During the installation of the liner an approximate six (6)-inch layer of "pad sand" will be installed above and below the liner in an effort to maintain its integrity during backfilling activities.
- After installing the liner on the floor of the excavated area, an eight (8)-inch PVC conduit will be installed, and extended vertically to the surface, in the area requiring additional vertical delineation, represented by test trench N.
- After receiving laboratory analytical results from confirmation soil samples and installing the bentonite or polyurethane liner and associated PVC casing, backfill the excavated area with locally sourced, non-impacted "like" material.
- Utilizing mechanical equipment, advance one (1) investigative soil bore through the established PVC casing in an effort to determine the vertical extent of chloride impact. The investigative soil bore will be advanced until chloride field screen results suggests two (2) consecutive soil samples collected at five (5) ft. intervals exhibit chloride concentrations below the NMOCD regulatory guidelines; soil samples will also be collected for confirmation laboratory analysis.

The Workplan was subsequently approved.

SUMMARY OF SOIL REMEDIATION ACTIVITIES

GJ West Coop Unit #108 (2RP-4351)

On August 14, 2018, excavation activities commenced at the Release Site. As per the approved *Workplan*, the open excavation was 'benched' to increase sidewall stability for the nineteen (19) ft. open excavation. On August 15, 2018, a twenty (20) mil polyurethane liner was placed at the base of the open nineteen (19) ft. bgs excavation, and an eight (8) inch PVC conduit was installed through the liner. The excavation was subsequently backfilled with locally sourced non-impacted soil to a depth of four (4) feet bgs. Excavated soil was stockpiled on-site pending final disposition.

On August 22, 2018, six (6) confirmation soil samples (RP NSW-1 @ 2', RP NSW-2 @ 2', RP ESW-1 @ 2', RP ESW-2 @ 2', RP WSW-1 @ 2', and RP WSW-2 @ 2') were collected from the sidewalls of the remaining excavation, which had a depth of approximately four (4) feet bgs. The collected soil samples were submitted for chloride analysis. The concentrations of chloride in the submitted soil samples were below NMOCD regulatory guidelines for chlorides. The excavation was subsequently advanced laterally to remove the remaining impacts above NMOCD regulatory guidelines.

On September 25, 2018, ten (10) confirmation soil samples (108-SSW#1, 108-SSW#3, 108-SSW#4, 108-NSW#1, 108-NSW#2, 108-NSW#3, 108-ESW#1, 108-SSW#2, 108-SSW#5, and 108-ESW#2) were collected from the sidewalls of the excavation and were submitted to the laboratory for chloride analysis. The concentrations of chloride in the submitted soil samples were below NMOCD regulatory guidelines for chlorides.

On October 8, 2018, as per the approved *Workplan*, a 20-mil polyurethane liner was installed in the entirety of the excavated area atop impacted soil affected above the NMOCD regulatory guidelines remaining in-situ. An approximate six (6)-inch layer of "pad sand" was installed above and below the liner in an effort to maintain the integrity of the liner during backfilling activities. This engineering control is designed to minimize the vertical migration of impact left in-situ. In accordance with the approved *Workplan*, an eight (8)-inch PVC conduit was installed to allow for the advancement of an investigative soil boring.

Following the installation of the liner atop the impacted soil affected above the NMOCD regulatory guidelines remaining in-situ, the excavated area was backfilled with locally sourced, non-impacted "like" material. Affected areas not on active oilfield production pads and/or lease roads were contoured to fit the surrounding topography and will be reseeded in accordance with NMSLO guidelines at a time more conducive to seed germination.

Prior to backfilling, the final dimensions of the excavated area were approximately two hundred and fifty (250) ft. in length, one hundred and fifty (150) ft. in width, and four (4) to nineteen (19) ft. in depth.

On March 21, 2019, in accordance with the NMOCD-approved *Workplan*, TRC advanced one (1) investigative soil boring (SB-1) through the PVC conduit installed above the affected area requiring additional vertical delineation. During the advancement of the soil boring, two (2) soil samples (SB-1 @ 35' and SB-1 @ 40') were collected and submitted to the laboratory for

analyses of TPH, BTEX, and chloride. Laboratory analytical results indicated TPH and BTEX concentrations were below the applicable laboratory RL for each constituent, with the exception of BTEX constituents in SB-1 @ 35', which were below NMOCD regulatory guidelines. Chloride concentrations were below NMOCD guidelines in both submitted soil samples. Soil boring samples SB-1 @ 35' and SB-1 @ 40' are representative of the chloride concentrations at depths ranging from thirty-five (35) to forty (40) ft. bgs. The elevated chloride concentration at thirty-seven (37) feet bgs in soil sample RP-N @ 37' was likely due to 'sluff' from impacted soil stratigraphically above thirty-seven (37) ft. bgs. Based on laboratory analytical results from delineation soil samples collected from the investigation soil boring, soil was not affected above the NMOCD regulatory guidelines beyond 35 ft. bgs in the area represented by soil boring SB-1. The soil boring conduit was filled with bentonite, capped with concrete, and cut to below grade.

GJ West Coop Unit #011 (2RP-4454)

On August 14, 2018, excavation activities commenced at the Release Site. As per the approved *Workplan*, the northern portion of the Release Site, in the areas characterized by delineation trenches RP, RP-2, and N were excavated to a depth of approximately four (4) ft. bgs. The floor of the excavation in the areas characterized by delineation trenches DT-1, DT-2, and DT-3 were advanced until chloride field test results suggested concentrations of chloride were below the NMOCD regulatory guidelines. Excavation sidewalls were advanced until chloride field test results suggested concentrations of chloride were below the NMOCD regulatory guidelines. Excavated soil was stockpiled on-site pending final disposition.

On August 22, 2018, following the excavation of the impacted soil from within the northern portion of the Release Site, TRC collected six (6) excavation confirmation soil samples (RP NSW-1 @ 2', RP NSW-2 @ 2', RP ESW-1 @ 2', RP ESW-2 @ 2', RP WSW-1 @ 2', and RP WSW-2 @ 2') from sidewalls of the excavated area and submitted the soil samples to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations were below the NMOCD regulatory guidelines in each of the submitted soil samples. Excavation activities continued toward the south. Please reference Figure 3B – Site & Confirmation Sample Location Map (2RP-4454).

On September 5, 2018, TRC collected eleven (11) excavation confirmation soil samples (DT-1 SSW-1 @ 3', DT-1 SSW-2 @ 3', DT-1 SSW-3 @ 3', DT-1 ESW @ 3', DT-1 ESW-2 @ 3', DT-1 ESW-3 @ 1.5', DT-1 WSW-1 @ 3', DT-1 WSW-2 @ 1.5' DT-1 FL-1 @ 6', DT-1 FL-2 @ 6' and DT-3 SSW @ 1') from the floor and sidewalls of the excavated area and submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations were below the NMOCD regulatory guidelines in each of the submitted soil samples. Excavation activities continued toward the south.

On September 12, 2018, TRC collected nine (9) excavation confirmation soil samples (DT-2 SSW-1 @ 1', DT-2 SSW-2 @ 1', DT-2 WSW @ 1', DT-2 FL-1 @ 2', DT-2 FL-2 @ 2', DT-3 WSW @ 1.5', DT-3 ESW-1 @ 1.5', DT-3 ESW-2 @ 1.5', and DT-3 FL @ 3') from the floor and sidewalls of the excavated area and submitted the soil samples to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations were below the NMOCD regulatory guidelines in each of the submitted soil samples. Excavation activities continued toward the south.

On September 17, 2018, TRC collected ten (10) excavation confirmation soil samples (DT-2 FL-3 @ 2', DT-2 NSW-1 @ 1', DT-2 NSW-2 @ 1', DT-2 WSW-2 @ 1', DT-2 ESW-1 @ 1', DT-2 ESW-2 @ 1', DT-2 SSW @ 1', DT-3 FL-2 @ 3', DT-3 NSW @ 1.5', and DT-3 WSW-2 @ 1.5') from the floor and sidewalls of the excavated area and submitted the soil samples to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations were below the NMOCD regulatory guidelines in each of the submitted soil samples.

On September 25, 2018, as per the approved *Workplan*, a 20-mil polyurethane liner was installed in the northern portion of the excavated area atop impacted soil affected above the NMOCD regulatory guidelines remaining in-situ. An approximate six (6)-inch layer of "pad sand" was installed above and below the liner in an effort to maintain the integrity of the liner during backfilling activities. This engineering control is designed to minimize the vertical migration of impact left in-situ. In accordance with the approved *Workplan*, an eight (8)-inch PVC conduit was installed in the area represented by test trench N to allow for the advancement of an investigative soil boring.

After installing the liner atop impacted soil affected above the NMOCD regulatory guidelines remaining in-situ, the excavated area was backfilled with locally sourced, non-impacted "like" material. Affected areas not on active oilfield production pads and/or lease roads were contoured to fit the surrounding topography and will be reseeded in accordance with NMSLO guidelines at a time more conducive to seed germination.

Prior to backfilling, the final dimensions of the excavated area were approximately three hundred (300) ft. in length, thirty-five (35) ft. to one hundred (100) ft. in width, and two (2) to six (6) ft. in depth.

On March 21, 2019, in accordance with the NMOCD-approved *Workplan*, TRC advanced one (1) investigative soil boring (SB-2) through the PVC conduit installed above the affected area requiring additional vertical delineation. During the advancement of the soil boring, four (4) soil samples (SB-2 @ 20', SB-2 @ 25', SB-2 @ 30', and SB-2 @ 35') were collected and submitted to the laboratory for analyses of TPH, BTEX, and chloride. Laboratory analytical results indicated chloride concentrations ranged from 337 mg/kg in soil sample SB-2 @ 20' to 50.3 mg/kg in soil sample SB-2 @ 30'. TPH and BTEX concentrations were below the applicable laboratory RL for each constituent. Based on laboratory analytical results from delineation soil samples collected from the investigation soil boring, soil was not affected above the NMOCD regulatory limits beyond 20 ft. bgs in the area represented by soil boring SB-2. The soil boring conduit was filled with bentonite, capped with concrete, and cut to below grade.

SITE CLOSURE REQUEST

Remediation activities were conducted in accordance with an NMOCD-approved *Workplan*. Laboratory analytical results from excavation confirmation soil samples indicated chloride concentrations were below the NMOCD regulatory guidelines in each of the submitted confirmation soil samples. Impacted soil affected above the NMOD regulatory guidelines remaining in-situ was capped with an NMOCD approved 20-mil polyurethane liner. This engineering control is designed to minimize the vertical migration of impact remaining in-situ. Approximately, two thousand, seven hundred forty (2,740) cy of impacted soil was transported to an approved disposal facility; the remaining portion of the excavated soil was reused in conjunction with the two (2) Release Sites.

Based on laboratory analytical results and field activities conducted to date, TRC recommends COG provide copies of this Remediation Summary and Risk-Based Site Closure Request to the NMOCD and NMSLO and request closure status to the GJ West Coop Unit #108 (2RP-4351) and GJ West Coop Unit #011 (2RP-4454).

LIMITATIONS

TRC has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

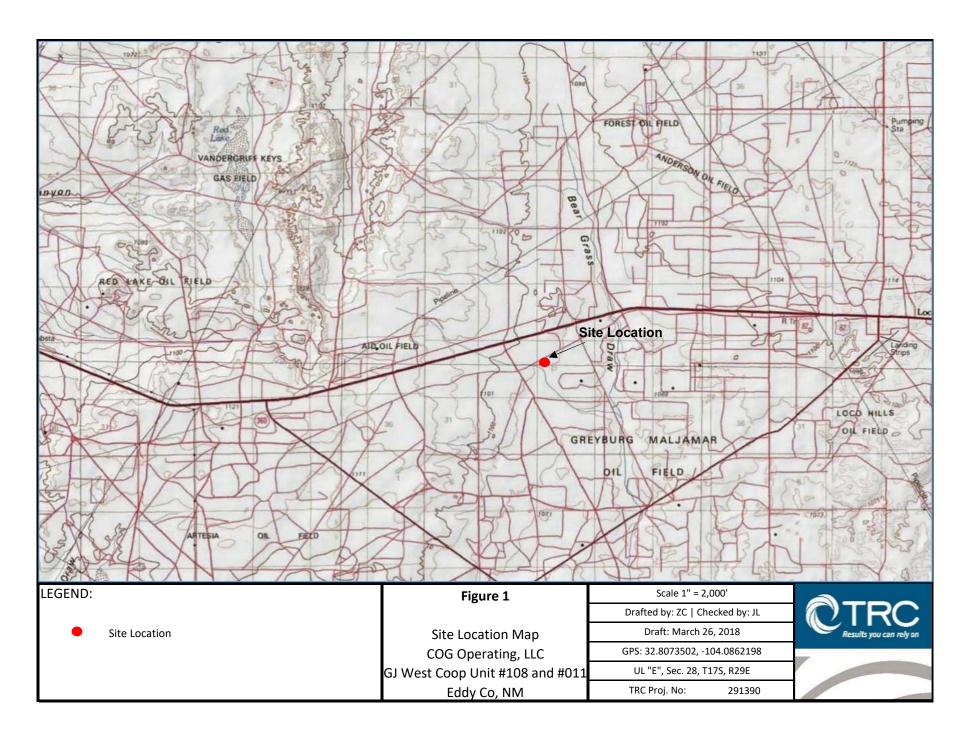
TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

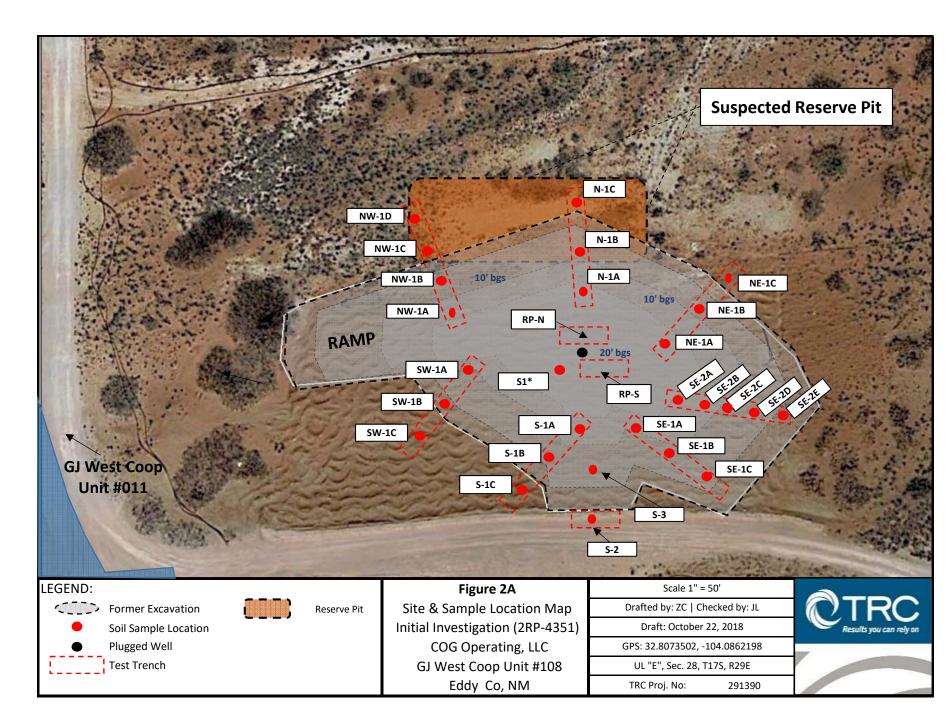
This report has been prepared for the benefit of COG Operating, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or COG Operating, LLC.

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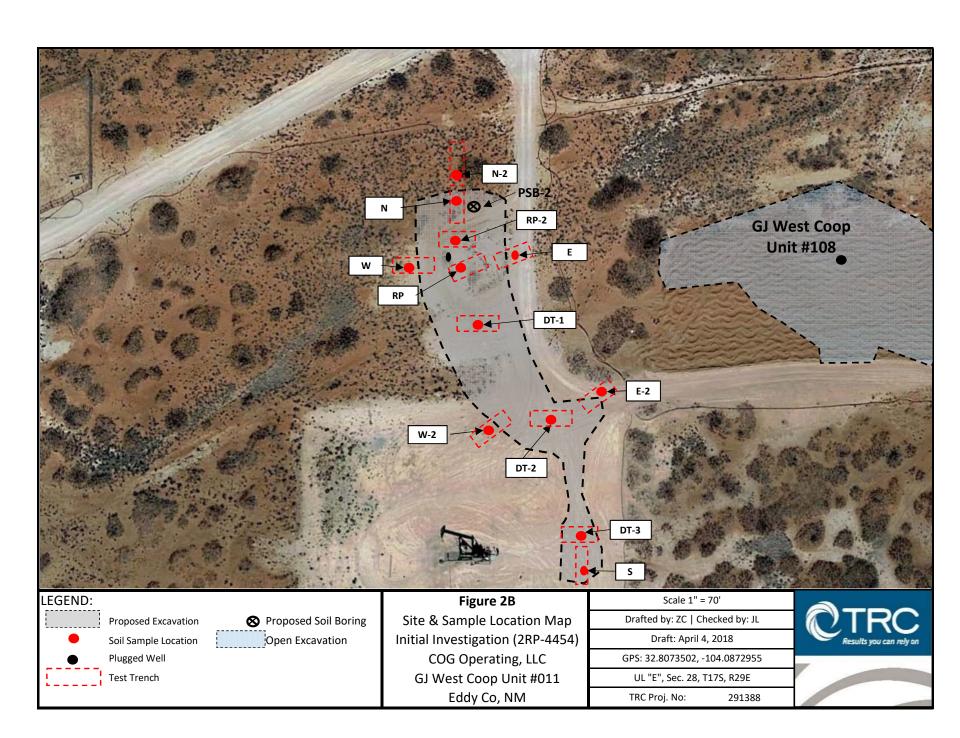
DISTRIBUTION

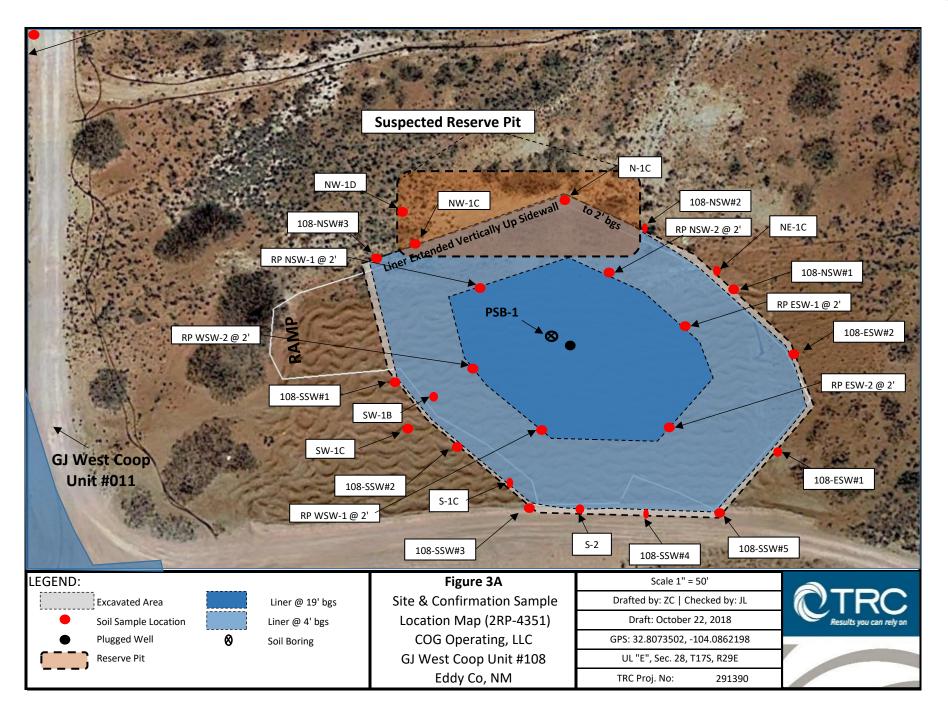
Copy 1:	Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210
Copy 2:	Ryan Mann Hobbs Field Office New Mexico State Land Office 2827 North Dal Paso St., Suite 117 Hobbs, New Mexico 88240
Copy 3:	Rebecca Haskell COG Operating, LLC 600 W. Illinois Avenue Midland, Texas 79701
Copy4:	TRC Environmental Corporation 10 Desta Drive STE 150E Midland, Texas 79705





Received by OCD: 4/7/2023 9:34:25 AM





* - Samples at this location collected by COG personnel

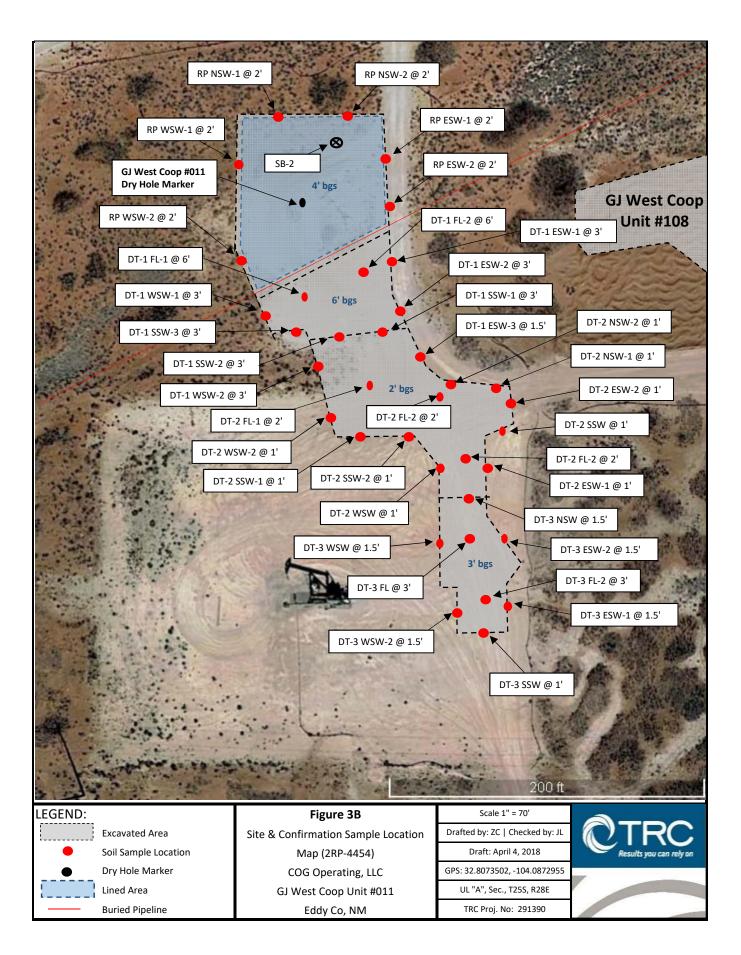


TABLE 1 Concentrations of BTEX, TPH and Chloride in Soil (2RP-4351) COG OPERATING, LLC GJ WEST COOP UNIT #108 EDDY COUNTY, NEW MEXICO

All concentrations are reported in mg/kg

SAMPLE LOCATION S1 3'-4' S1 5'-6' S 13'-14' S 16'-17' RP-N @ 28'	DEPTH 3'-4' 5'-6' 13-14' 16'-17'	SAMPLE DATE 8/14/2017 8/14/2017	SOIL STATUS	BENZENE	MET TOLUENE	HODS: SW 846 ETHYL-	8021b TOTAL	TOTAL	TPH GRO	METHOD:		TOTAL	E 300.1/4500 Clb
LOCATION \$1 3'-4' \$1 5'-6' \$ 13'-14' \$ 16'-17'	3'-4' 5'-6' 13-14'	DATE 8/14/2017	STATUS	BENZENE	TOLUENE	ETHYL-	TOTAL	TOTAL	TDU CDO	TRUDDO		TOTAL	
S1 3'-4' S1 5'-6' S 13'-14' S 16'-17'	5'-6' 13-14'	8/14/2017		DEIVEENE			TOTAL	TOTAL	TPH GRO	TPH DRO	TPH ORO	TPH	CHLORIDE
S1 5'-6' S 13'-14' S 16'-17'	5'-6' 13-14'		Excavated			BENZENE	XYLENES	BTEX	C6-C10	C10-C28	C28-C35	C ₆ -C ₃₅	CHLOKIDE
S 13'-14' S 16'-17'	13-14'	8/14/2017		-	-	-	-	-	- 0 - 10	- 10 - 20	- 28 - 55		992
S 16'-17'			Excavated	-	-	-	-	-	-	-	-	-	28,000
	16'-17'	8/14/2017	Excavated	-	-	-	-	-	-	-	-	-	7,200
RP-N @ 28'		8/14/2017	Excavated	-	-	-	-	-	-	-	-	-	21,200
	28'	3/29/2018	Lined	-	-	-	-	-	-	-	-	-	3,440
RP-N @ 37'	37'	3/29/2018	Lined	-	-	-	-	-	-	-	-	-	8,560
RP-S @ 28'	28'	3/29/2018	Lined	-	-	-	-	-	-	-	-	-	1,830
RP-S @ 31'	31'	3/29/2018	Lined	-	-	-	-	-	-	-	-	-	1,030
RP-S @ 34'	34'	3/29/2018	Lined	-	-	-	-	-	-	-	-	-	853
SE-1A @ 18'	18'	3/22/2018	Lined	< 0.00202	< 0.00202	< 0.00202	< 0.00202	< 0.00202	<15.0	<15.0	<15.0	<15.0	791
SE-1B @ 10'	10'	3/22/2018	Lined	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<15.0	<15.0	<15.0	<15.0	2,940
SE-1B @ 10	20'	3/22/2018	Lined	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	96.5
SE-1C @ 3'	3'	3/22/2018	Lined					-					255
SE-IC @ 3 SE-IC @ 12'	12'	3/22/2018	Lined	-	-	-	-	-	-	-	-	-	73.5
SE-1C @ 20'	20'	3/22/2018	Lined	-	-	-	-	-	-	-	-	-	65.7
SE-2A @ 18'	18'	3/22/2018	Lined	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	409
SE-2B @ 10'	10'	3/22/2018	In-Situ	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	491
SE-2B @ 10	20'	3/22/2018	In-Situ	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<14.9	<14.9	<14.9	<14.9	48.7
SE-2C @ 3'	3'	3/22/2018	Excavated	-	_	-					-		4,570
SE-2C @ 5	6'	3/22/2018	Lined	-	-	-	-	-	-	-	-	-	96.8
SE-2C @ 0 SE-2C @ 12'	12'	3/22/2018	Lined	-	-	-	-	-	-	-	-	-	267
SE-2C @ 20'	20'	3/22/2018	Lined	-	-	-	-	-	-	-	-	-	423
SE-2D @ 3'	3'	3/22/2018	Excavated	-	-	-	-	-		-	-	-	20,600
SE-2D @ 9'	9'	3/22/2018	Lined	-	-	-	-	-	-	-	-	-	8,210
SE-2D @ 12'	12'	3/22/2018	Lined	-	-	-	-	-	-	-	-	-	443
SE-2D @ 20'	20'	3/22/2018	Lined	-	-	-	-	-	-	-	-	-	374
SE-2E @ 3'	3'	3/22/2018	Excavated	-	-	-	-	-	-	-	-	-	687
SE-2E @ 6'	6'	3/22/2018	Lined	-	-	-	-	-	-	-	-	-	135
NE-1A @ 18'	18'	3/22/2018	Lined	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<15.0	<15.0	<15.0	<15.0	723
NE-1B @ 10'	10'	3/22/2018	Lined	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	302
NE-1B @ 10	20'	3/22/2018	Lined	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<14.9	<14.9	<14.9	<14.9	77.1
NE-1C @ 3'	3'	3/22/2018	Excavated	-	-	-	-	-	-	-	-	-	139
NE-1C @ 12'	12'	3/22/2018	Lined	-	-	-	-	-	-	-	-	-	84.0
NE-1C @ 20'	20'	3/22/2018	Lined	-	-	-	-	-	-	-	-	-	72.4
N-1A @ 18'	18'	3/22/2018	Lined	< 0.00202	< 0.00202	< 0.00202	< 0.00202	< 0.00202	<15.0	<15.0	<15.0	<15.0	1,260
N-1A @ 20'	20'	3/29/2018	Lined	-	-	-	-	-	-	-	-	-	564
N-1A @ 23'	23'	3/29/2018	Lined	-	-	-	-	-	-	-	-	-	486
N-1A @ 26'	26'	3/29/2018	Lined	-	-	-	-	-	-	-	-	-	412
N-1B @ 10'	10'	3/22/2018	Lined	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<15.0	216	29.3	245.3	593
N-1B @ 20'	20'	3/22/2018	Lined	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	866
N-1C @ 3'	3'	3/22/2018	In-Situ		-		_	_	-	-	-	-	583
NW-1A @ 18'	18'			< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	769
NW-IA @ 18		3/23/2018 nediation Ac	Lined	10	-		-	50	-	-	- 15.0	<15.0 5,000	600

TABLE 1 Concentrations of BTEX, TPH and Chloride in Soil (2RP-4351) COG OPERATING, LLC GJ WEST COOP UNIT #108 EDDY COUNTY, NEW MEXICO

All concentrations are reported in mg/kg													
					MET	HODS: SW 846	-8021b			METHOD:	SW 8015M		E 300.1/4500 Clb
SAMPLE LOCATION	DEPTH	SAMPLE DATE	SOIL STATUS	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C ₆ -C ₁₀	TPH DRO C ₁₀ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C6-C35	CHLORIDE
NW-A @ 20'	20'	3/29/2018	Lined	-	-	-	-	-	-	-	-	-	179
NW-A @ 23'	23'	3/29/2018	Lined	-	-	-	-	-	-	-	-	-	375
NW-A @ 29'	29'	3/29/2018	Lined	-	-	-	-	-	-	-	-	-	265
NW-1B @ 10'	10'	3/23/2018	Lined	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	38.8
NW-1B @ 20'	20'	3/23/2018	Lined	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<15.0	<15.0	<15.0	<15.0	1,300
NW-1C @ 3'	3'	3/23/2018	In-Situ	-	-	-	-	-	-	-	-	-	259
NW-1C @ 6'	6'	3/23/2018	In-Situ	-	-	-	-	-	-	-	-	-	414
NW-1C @ 9'	9'	3/23/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,570
NW-1C @ 20'	20'	3/23/2018	In-Situ	-	-	-	-	-	-	-	-	-	5,700
NW-1D @ 3'	3'	3/23/2018	In-Situ	-	-	-	-	-	-	-	-	-	29.5
NW-1D @ 6'	6'	3/23/2018	In-Situ	-	-	-	-	-	-	-	-	-	704
NW-1D @ 9'	9'	3/23/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,090
NW-1D @ 20'	20'	3/23/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,280
SW-1A @ 18'	18'	3/23/2018	Lined	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<14.9	<14.9	<14.9	<14.9	62.1
SW-1B @ 10'	10'	3/23/2018	In-Situ	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	76.4
SW-1B @ 10 SW-1B @ 20'	20'	3/23/2018	In-Situ	< 0.00201	< 0.00200	< 0.00201	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	29.6
SW-1C @ 3'	3'	3/23/2018	In-Situ									-	257
SW-1C @ 12'	12'	3/23/2018	In-Situ In-Situ	-	-	-	-	-	-	-	_	-	50.9
SW-1C @ 20'	20'	3/23/2018	In-Situ	-	-	-	-	-	-	-	-	-	25.8
S-1A @ 18'	18'	3/23/2018	Excavated	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<15.0	<15.0	<15.0	<15.0	7,660
S-1B @ 10'	10'	3/23/2018	Excavated	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	18,500
S-1B @ 10 S-1B @ 20'	20'	3/23/2018	Excavated	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	4,300
				-0.00201	~0.00201	~0.00201	-0.00201	<0.00201	<13.0	<15.0	<13.0	~15.0	
S-1C @ 3'	3'	3/23/2018	In-Situ	-	-	-	-	-	-	-	-	-	421
S-1C @ 12' S-1C @ 20'	12' 20'	3/23/2018 3/23/2018	In-Situ	-	-	-	-	-	-	-	-	-	26.7 <5.00
<u> </u>			In-Situ	-	-	-	-	-	-	-	-	-	
S-2 @ 3'	3'	3/23/2018	Excavated	-	-	-	-	-	-	-	-	-	169
S-2 @ 12' S-2 @ 20'	12' 20'	3/23/2018 3/23/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	14.9 <4.92
	4'	4/24/2018	Excavated	-	-	-	-	-	-	-	-	-	10,000
S-3									-	-			,
RP NSW-1 @ 2'	2'	8/22/2018	Excavated	-	-	-	-	-	-	-	-	-	<4.99
RP NSW-2 @ 2'	2'	8/22/2018	Excavated	-	-	-	-	-	-	-	-	-	235
RP ESW-1 @ 2'	2'	8/22/2018 8/22/2018	Excavated Excavated	-	-	-	-	-	-	-	-	-	12.9 210
RP ESW-2 @ 2' RP WSW-1 @ 2'	2'	8/22/2018	Excavated	-	-	-	-	-	-	-	-	-	153
RP-WSW-2 @ 2'	2'	8/22/2018	Excavated	-	-	-	-	-	-	-	-	-	97.8
108- SSW#1	3.5'	9/25/2018	In-Situ	-	-	-	_	_	_	-	-	-	26.2
108- SSW#1 108- SSW#3	3.5'	9/25/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	35.9
108- SSW#5	3.5'	9/25/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	47.8
108- NSW#1	3.5'	9/25/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	199
108-NSW#2	3.5'	9/25/2018	In-Situ	-	-	-	-	-	-	-	-	-	287
108- NSW#3	3.5'	9/25/2018	In-Situ	-	-	-	-	-	-	-	-	-	<25.0
108- ESW#1	3.5'	9/25/2018		-	-	-	-	-	-	-	-	-	224
108-SSW#2	3.5'	9/25/2018	In-Situ	-	-	-	-	-	-	-	-	-	<25.0
108- SSW#5	3.5'	9/25/2018	In-Situ	-	-	-	-	-	-	-	-	-	312
108- ESW#2	3.5'	9/25/2018	In-Situ	-	-	-	-	-	-	-	-	-	361
SB-1 @ 35'	35'	3/21/2019	Lined	< 0.00202	0.00267	< 0.00202	0.00513	0.0078	<15.0	<15.0	<15.0	<15	205
SB-1 @ 40'	40'	3/21/2019	Lined	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<15.0	<15.0	<15.0	<15	103
NMOCD Recom	mended Re	mediation A	ction Level	10	-	-	-	50	-	-	-	5,000	600

TABLE 2

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL (2RP-4454)

COG OPERATING, LLC GJ WEST COOP UNIT #011 EDDY COUNTY, NEW MEXICO

RP @ 3' RP @ 18' RP-2 @ 3' RP-2 @ 6' RP-2 @ 18' DT -1 @ 3' DT -1 @ 6' DT -1 @ 18' DT -2 @ SURFACE DT -2 @ 4' DT -3 @ SURFACE DT -3 @ SURFACE DT -3 @ 4' DT -3 @ 8' N @ 3' N @ 6' N @ 18' N-2 @ 3' E @ 3' E @ 9' E @ 18' E-2 @ 3' E-2 @ 18' W @ 3' W @ 3' W @ 3' W @ 18'	DEPTH 3' 9' 18' 3' 6' 18' 3' 6' 18' Surface 4' 8' Surface 4' 8' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 18' 18' 18' 18' 18' 18' 18' 18' 18' 18	SAMPLE DATE 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 3/30/2018	SOIL STATUS Excavated Risked Risked Risked In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ	BENZENE <0.00199 - - <0.00198 - - <0.00200 - - <0.00200 - - <0.00200 - - <0.00198 - - <0.00198 - - <0.00198 - - - <0.00198 - - - - - - - - - - - - -	TOLUENE <0.00199 - - <0.00198 - - <0.00200 - - <0.00200 - - <0.00200 - - <0.00198 - - <0.00198 - - - <0.00198 - - - - - - - - - - - - -	HODS: SW 846. ETHYL- BENZENE <0.00199 - - - <0.00198 - - - <0.00200 - - - <0.00200 - - - <0.00198 - - <0.00198 - - - <0.00198 - - - - <0.00199 - - - - - - - - - - - - - - - - - -	S021b TOTAL XYLENES <0.00199 - <0.00198 - <0.002 - <0.002 - <0.00198 - <0.002 - <0.00198 - <0.00198 - <0.00198 - <0.00201	TOTAL BTEX <0.00199<0.00198<0.002<0.002<0.002<0.00198	TPH GRO C ₆ -C ₁₀ <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - - <15.0 - - - - - - - - - - - - -	METHOD: TPH DRO C ₁₀ -C ₂₈ <15.0 <15.0 <15.0 <15.0 <15.0 <15.0 <14.9 26.1 - <14.9 26.1 - <14.9 26.2 -		TOTAL TPH C ₆ -C ₃₅ <15.0 <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <15.0 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - <14.9 - - - - - - - - - - - - -	E 300.1 CHLORIDE 977 1,890 241 1,410 145 105 2,900 101 124 53,100 16.4 19.4 15,600 7.10
RP @ 9' RP @ 18' RP-2 @ 3' RP-2 @ 6' RP-2 @ 18' DT -1 @ 3' DT -1 @ 6' DT -2 @ SURFACE DT -2 @ 4' DT -2 @ 8' DT -3 @ 8' N @ 3' N @ 18' N-2 @ 6' N-2 @ 3' E @ 3' E @ 3' E @ 3' E -2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 3' W @ 18'	9' 18' 3' 6' 18' 3' 6' 18' Surface 4' 8' Surface 4' 8' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 9' 18' 18' 18' 18' 18' 18' 18' 18' 18' 18	3/30/2018 3/30/2018 3/30/2018 3/30/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	Risked Risked Risked In-Situ In-Situ In-Situ In-Situ In-Situ Excavated In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ In-Situ	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- <15.0 <15.0 <15.0 <15.0 <14.9 <15.0 - <14.9 <15.0	- <15.0 <15.0 <15.0 <15.0 - <14.9 26.1 - <14.9 46.2	- <15.0 <15.0 <15.0 <15.0 - <14.9 <15.0 - <14.9 - <14.9 19.9	- <15.0 <15.0 <15.0 <15.0 - <14.9 26.1 - <14.9	1,890 241 1,410 145 105 2,900 101 124 53,100 16.4 19.4 15,600
RP @ 18' RP-2 @ 3' RP-2 @ 6' RP-2 @ 18' DT -1 @ 3' DT -1 @ 6' DT -2 @ 3' DT -2 @ 4' DT -2 @ 8' DT -3 @ SURFACE DT -3 @ 4' DT -3 @ 8' N @ 3' N @ 6' N-2 @ 3' N-2 @ 3' E @ 3' E @ 18' E-2 @ 3' E-2 @ 3' E-2 @ 18' W @ 3' W @ 3' W @ 3' W @ 18'	18' 3' 6' 18' 3' 5urface 4' 8' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18'	3/30/2018 3/30/2018 3/30/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	Risked Excavated Risked In-Situ In-Situ In-Situ Excavated In-Situ Excavated In-Situ In-Situ Excavated Risked Risked In-Situ In-Situ In-Situ In-Situ	- <0.00198 - - <0.00200 - - <0.00200 - - <0.00200 - - <0.00198 - - <0.00201 - - <0.00201 - - - - - - - - - - - - -	- <0.00198 - <0.00200 - - <0.00200 - - <0.00200 - - <0.00198 - - <0.00201 - - - - - - - - - - - - -	- <0.00198 - - <0.00200 - - <0.00200 - - <0.00200 - - <0.00198 - - <0.00198 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- <0.00198 - <0.002 - - <0.002 - - <0.00198 -	<15.0 <15.0 <15.0 <15.0 - <14.9 <15.0 - <14.9 <15.0	<15.0 <15.0 <15.0 - <14.9 26.1 - <14.9 46.2	<15.0 <15.0 <15.0 <15.0 <14.9 <14.9 <15.0 - <14.9 19.9	<15.0 <15.0 <15.0 <15.0 - <14.9 26.1 - <14.9	241 1,410 145 105 2,900 101 124 53,100 16.4 19.4 15,600
RP-2 @ 3' RP-2 @ 6' RP-2 @ 18' DT -1 @ 3' DT -1 @ 3' DT -1 @ 18' DT -2 @ 4' DT -2 @ 4' DT -3 @ SURFACE DT -3 @ 4' DT -3 @ 4' DT -3 @ 8' N @ 3' N @ 6' N-2 @ 3' R-2 @ 3' E @ 3' E @ 18' E-2 @ 3' E-2 @ 18' W @ 3' W @ 3' W @ 3' W @ 18'	3' 6' 18' 3' 6' 18' 8' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18'	3/30/2018 3/30/2018 3/30/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	Excavated Risked Risked In-Situ In-Situ Excavated In-Situ Excavated In-Situ In-Situ Excavated Risked Risked In-Situ In-Situ In-Situ In-Situ	<0.00198	<0.00198	<0.00198 - - <0.00200 - - <0.00200 - - - <0.00200 - - - <0.00198 - - - <0.00198 - - - - - - - - - - - - -	<0.00198 - - - - - - - - - - - - -	<0.00198 - - <0.002 - - <0.002 - - <0.00198 -	<15.0 - <15.0 - <14.9 <15.0 - <14.9 <15.0 <15.0	<15.0 - <15.0 - <14.9 26.1 - <14.9 46.2	<15.0 - <15.0 - <14.9 <15.0 - <14.9 - <14.9 19.9	<15.0 - <15.0 - <14.9 26.1 - - <14.9	1,410 145 105 2,900 101 124 53,100 16.4 19.4 15,600
RP-2 @ 6' RP-2 @ 18' DT -1 @ 3' DT -1 @ 6' DT -2 @ SURFACE DT -2 @ 4' DT -2 @ 8' DT -3 @ 8' DT -3 @ 3' N @ 3' N-2 @ 6' N-2 @ 6' N-2 @ 6' N-2 @ 18' E @ 3' E @ 9' E -2 @ 3' E-2 @ 18' W @ 3' W @ 3' W @ 18'	6' 18' 3' 6' 18' Surface 4' 8' Surface 4' 8' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18'	3/30/2018 3/30/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	Risked Risked In-Situ In-Situ Excavated In-Situ Excavated In-Situ In-Situ Excavated Risked Risked In-Situ In-Situ In-Situ In-Situ	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- <15.0 <15.0 - <14.9 <15.0 - <14.9 <15.0	- <15.0 <15.0 - <14.9 26.1 - <14.9 46.2	- <15.0 - <14.9 <15.0 - <14.9 - <14.9 19.9	<15.0 <15.0 - <14.9 26.1 - <14.9	145 105 2,900 101 124 53,100 16.4 19.4 15,600
DT -1 @ 3' DT -1 @ 6' DT -2 @ SURFACE DT -2 @ SURFACE DT -2 @ 4' DT -2 @ 8' DT -3 @ 8' DT -3 @ 8' N @ 3' N @ 6' N @ 18' N-2 @ 3' N-2 @ 6' N-2 @ 18' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	3' 6' 18' Surface 4' 8' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18'	4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	In-Situ In-Situ Excavated In-Situ In-Situ Excavated In-Situ In-Situ Excavated Risked Risked In-Situ In-Situ In-Situ In-Situ	<0.00200 - - - - - - - - - - - - -	<0.00200 - - - - - - - - - - - - -	<0.00200 - - - - - - - - - - - - -	<0.002 - - <0.002 - - <0.00198 - -	<0.002 - - - - - - - - -	<15.0 - <14.9 <15.0 - <14.9 <15.0	<15.0 - - 26.1 - - <14.9 46.2	<15.0 - <14.9 <15.0 - <14.9 19.9	<15.0 - <14.9 26.1 - <14.9	2,900 101 124 53,100 16.4 19.4 15,600
DT -1 @ 6' DT -1 @ 18' DT -2 @ SURFACE DT -2 @ 4' DT -2 @ 8' DT -3 @ SURFACE DT -3 @ 4' DT -3 @ 8' N @ 3' N @ 6' N-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	6' 18' Surface 4' 8' Surface 4' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18' 18' 3' 9' 18' 3' 18' 18' 18' 18' 18' 18' 18' 18' 18' 18	4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	In-Situ In-Situ In-Situ In-Situ Excavated In-Situ In-Situ Excavated Risked Risked In-Situ In-Situ In-Situ In-Situ	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - -	- - - - - - - - -	- <14.9 <15.0 - <14.9 <15.0	- <14.9 26.1 - <14.9 46.2	- <14.9 <15.0 - <14.9 19.9	- <14.9 26.1 - <14.9	101 124 53,100 16.4 19.4 15,600
DT -1 @ 18' DT -2 @ SURFACE DT -2 @ 4' DT -2 @ 8' DT -3 @ SURFACE DT -3 @ 4' DT -3 @ 8' N @ 3' N @ 6' N-2 @ 3' E @ 3' E @ 18' E-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	18' Surface 4' 8' Surface 4' 8' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18'	4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	In-Situ Excavated In-Situ Excavated In-Situ In-Situ Excavated Risked Risked In-Situ In-Situ In-Situ In-Situ	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - -	- - <0.00198 - - <0.00201	- <0.002 - - <0.00198 - -	- <0.002 - - <0.00198 -	<14.9 <15.0 - <14.9 <15.0	26.1 - <14.9 46.2	<14.9 <15.0 - <14.9 19.9	26.1 - <14.9	124 53,100 16.4 19.4 15,600
DT -2 @ SURFACE DT -2 @ 4' DT -2 @ 8' DT -3 @ SURFACE DT -3 @ 4' DT -3 @ 8' N @ 3' N @ 6' N-2 @ 3' E @ 3' E @ 3' E @ 18' E-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	Surface 4' 8' 4' 3' 6' 18' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18'	4/2/2018 4/2/2018 4/2/2018 4/2/2018 4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	Excavated In-Situ Excavated In-Situ Excavated Risked Risked In-Situ In-Situ In-Situ In-Situ	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - -	- - <0.00198 - - <0.00201	- - <0.00198 - -	- - <0.00198 -	<15.0 - <14.9 <15.0	26.1 - <14.9 46.2	<15.0 - <14.9 19.9	26.1 - <14.9	53,100 16.4 19.4 15,600
DT -2 @ 4' DT -2 @ 8' DT -3 @ SURFACE DT -3 @ 4' DT -3 @ 8' N @ 3' N @ 6' N-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	4' 8' Surface 4' 8' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18'	4/2/2018 4/2/2018 4/2/2018 4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	In-Situ In-Situ In-Situ In-Situ Excavated Risked Risked In-Situ In-Situ In-Situ	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - -	- - <0.00198 - - <0.00201	- - <0.00198 - -	- - <0.00198 -	- <14.9 <15.0	- <14.9 46.2	- <14.9 19.9	- <14.9	16.4 19.4 15,600
DT -3 @ SURFACE DT -3 @ 4' DT -3 @ 8' N @ 3' N @ 6' N-2 @ 3' N-2 @ 3' E @ 3' E @ 9' E @ 18' E-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	Surface 4' 8' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18'	4/2/2018 4/2/2018 4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	Excavated In-Situ In-Situ Excavated Risked In-Situ In-Situ In-Situ	<0.00198 - - <0.00201 - - <0.00201 -	<0.00198 - - <0.00201 - -	<0.00198 - - <0.00201	<0.00198 - -	<0.00198 -	<15.0	46.2	19.9		15,600
DT -3 @ 4' DT -3 @ 8' N @ 3' N @ 6' N @ 18' N-2 @ 3' N-2 @ 6' N-2 @ 18' E @ 9' E @ 18' E-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	4' 8' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18'	4/2/2018 4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	In-Situ In-Situ Excavated Risked In-Situ In-Situ In-Situ	- <0.00201 - - <0.00201 -	- - <0.00201 - -		-	-				66.1 -	,
DT -3 @ 8' N @ 3' N @ 6' N @ 18' N-2 @ 3' N-2 @ 6' N-2 @ 18' E @ 9' E @ 18' E-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	8' 3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18' 3' 9' 18'	4/2/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	In-Situ Excavated Risked In-Situ In-Situ In-Situ	- <0.00201 - - <0.00201 -	- <0.00201 - -	- <0.00201	-		-	-	-	-	7.10
N @ 3' N @ 6' N @ 18' N-2 @ 3' N-2 @ 6' N-2 @ 18' E @ 3' E @ 9' E @ 18' E-2 @ 3' E-2 @ 3' E-2 @ 18' W @ 3' W @ 6' W @ 18'	3' 6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18'	3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	Excavated Risked In-Situ In-Situ In-Situ	<0.00201 - - <0.00201 -	<0.00201 - -	< 0.00201			<15.0	<15.0	<15.0	<15.0	7.30
N @ 6' N @ 18' N-2 @ 3' N-2 @ 6' N-2 @ 18' E @ 3' E @ 9' E @ 18' E-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	6' 18' 3' 6' 18' 3' 9' 18' 3' 9' 18'	3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	Risked Risked In-Situ In-Situ In-Situ	- - <0.00201 -	-			< 0.00201	<13.0	<13.0	<13.0	<13.0	178
N-2 @ 3' N-2 @ 6' N-2 @ 18' E @ 3' E @ 9' E @ 18' E-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	3' 6' 18' 3' 9' 18' 3' 9' 18'	3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	In-Situ In-Situ In-Situ	-	-				-	-	-	-	1,390
N-2 @ 6' N-2 @ 18' E @ 3' E @ 9' E @ 18' E-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	6' 18' 3' 9' 18' 3' 9' 18'	3/30/2018 3/30/2018 3/30/2018 3/30/2018 3/30/2018	In-Situ In-Situ	-	0.00004	-	-	-	<15.0	<15.0	<15.0	<15.0	1,310
N-2 @ 18' E @ 3' E @ 9' E @ 18' E-2 @ 3' E-2 @ 3' E-2 @ 18' W @ 3' W @ 6' W @ 18'	18' 3' 9' 18' 3' 9' 18' 3' 9' 18'	3/30/2018 3/30/2018 3/30/2018 3/30/2018	In-Situ		< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	21.6
E @ 3' E @ 9' E @ 18' E-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	3' 9' 18' 3' 9' 18'	3/30/2018 3/30/2018 3/30/2018			-	-	-	-	-	-	-	-	322
E @ 9' E @ 18' E-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	9' 18' 3' 9' 18'	3/30/2018 3/30/2018	m-situ	- <0.00202	- <0.00202	- <0.00202	- <0.00202	- <0.00202	<15.0 <15.0	<15.0 <15.0	<15.0 <15.0	<15.0	119 214
E @ 18' E-2 @ 3' E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	18' 3' 9' 18'	3/30/2018	In-Situ	-	<0.00202	<0.00202	-	-				-13.0	84.1
E-2 @ 9' E-2 @ 18' W @ 3' W @ 6' W @ 18'	9' 18'		In-Situ	-	-	-	-	-	<14.9	<14.9	<14.9	<14.9	36.0
E-2 @ 18' W @ 3' W @ 6' W @ 18'	18'	3/30/2018	In-Situ	< 0.00198	< 0.00198	< 0.00198	< 0.00198	< 0.00198	<15.0	<15.0	<15.0	<15.0	82.7
W @ 3' W @ 6' W @ 18'		3/30/2018	In-Situ	-	-	-	-	-	-	-	-	-	54.6
W @ 6' W @ 18'		3/30/2018	In-Situ	-	-	-	-	-	<15.0	<15.0	<15.0	<15.0	23.8
W @ 18'	3' 6'	3/30/2018 3/30/2018	In-Situ In-Situ	<0.00200	<0.00200	<0.00200	<0.002	< 0.002	<15.0	<15.0	<15.0	<15.0	78.7 245
W-2 @ SURFACE	18'	3/30/2018	In-Situ	-	-	-	-	-	<15.0	<15.0	<15.0	<15.0	73.4
	Surface	3/30/2018	In-Situ	< 0.00202	< 0.00202	< 0.00202	< 0.00202	< 0.00202	<15.0	<15.0	<15.0	<15.0	253
W-2 @ 2'	2'	3/30/2018	In-Situ	-	-	-	-	-	-	-	-	-	9.55
W-2 @ 8'	8'	3/30/2018	In-Situ	-	-	-	-	-	<15.0	<15.0	<15.0	<15.0	<4.95
S @ SURFACE S @ 2'	Surface 2'	4/2/2018 4/2/2018	Excavated In-Situ	<0.00201	< 0.00201	< 0.00201	<0.00201	<0.00201	<15.0	36.3	<15.0	36.3	1,840 34.4
S @ 8'	2 8'	4/2/2018	In-Situ	-	-	-	-	-	<14.9	<14.9	<14.9	<14.9	11.8
RP NSW-1 @ 2'	2'	8/22/2018	In-Situ	-	-	-	-	-	-	-	-	-	<4.99
RP NSW-2 @ 2'	2'	8/22/2018		-	-	-	-	-	-	-	-	-	235
RP ESW-1 @ 2' RP ESW-2 @ 2'	2' 2'	8/22/2018 8/22/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	12.9 210
RP WSW-1 @ 2'	2'	8/22/2018	In-Situ	-	-	-	-	-	-	-	-	-	153
RP WSW-2 @ 2'	2'	8/22/2018	In-Situ	-	-	-	-	-	-	-	-	-	97.8
DT-1 SSW-1 @ 3'	3'	9/5/2018	In-Situ	-	-	-	-	-	-	-	-	-	82.5
DT-1 SSW-2 @ 3' DT-1 SSW-3 @ 3'	3' 3'	9/5/2018 9/5/2018	In-Situ In Situ	-	-	-	-	-	-	-	-	-	121 193
DT-1 ESW-1 @ 3'	3'	9/5/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	193
DT-1 ESW-2 @ 3'	3'	9/5/2018	In-Situ	-	-	-	-	-	-	-	-	-	179
DT-1 ESW-3 @ 1.5'	1.5'	9/5/2018	In-Situ	-	-	-	-	-	-	-	-	-	23.0
DT-1 WSW-1 @ 3' DT-1 WSW-2 @ 1.5'	3' 1.5'	9/5/2018 9/5/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	156 169
DT-1 FL-1 @ 6'	6'	9/5/2018	In-Situ	-	-	-	-	-	-	-	-	-	50.2
DT-1 FL-2 @ 6'	6'	9/5/2018	In-Situ	-	-	-	-	-	-	-	-	-	247
DT-3 SSW @ 1'	1'	9/5/2018	In-Situ	-	-	-	-	-	-	-	-	-	252
DT-2 SSW-1 @ 1' DT-2 SSW-2 @ 1'	1' 1'	9/12/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	36.4
DT-2 WSW @ 1'	1'	9/12/2018 9/12/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	30.5 156
DT-2 FL-1 @ 2'	2'	9/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	71.5
DT-2 FL-2 @ 2'	2'	9/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	33.5
DT-3 WSW @ 1.5' DT-3 ESW-1 @ 1.5'	1.5'	9/12/2018 9/12/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	30.7 319
DT-3 ESW-2 @ 1.5'	1.5'	9/12/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	96.5
DT-3 FL @ 3'	3'	9/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	20.2
DT-2 FL-3 @ 2'	2'	9/17/2018	In-Situ	-	-	-	-	-	-	-	-	-	59.9
DT-2 NSW-1 @ 1'	1'	9/17/2018	In-Situ	-	-	-	-	-	-	-	-	-	290
DT-2 NSW-2 @ 1' DT-2 WSW-2 @ 1'	1' 1'	9/17/2018 9/17/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	4.97 58.3
DT-2 ESW-1 @ 1'	1'	9/17/2018	In-Situ	-	-	-	-	-	-	-	-	-	234
DT-2 ESW-2 @ 1'	1'	9/17/2018	In-Situ	-	-	-	-	-	-	-	-	-	264
DT-2 SSW @ 1'	1'	9/17/2018	In-Situ	-	-	-	-	-	-	-	-	-	406
DT-3 FL-2 @ 3' DT-3 NSW @ 1.5'	3' 1.5'	9/17/2018 9/17/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	4.99 51.8
DT-3 WSW-2 @ 1.5'	1.5'	9/17/2018	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	<5.00
SB-2 @ 20'	20'	9/17/2018	Risked	< 0.00200	< 0.00200	< 0.00200	< 0.002	< 0.002	<15.0	<15.0	<15.0	<15.0	337
SB-2 @ 25'	25'	9/17/2018	Risked	< 0.00200	< 0.00200	< 0.00200	< 0.002	< 0.002	<15.0	<15.0	<15.0	<15.0	142
SB-2 @ 30' SB-2 @ 35'	30' 35'	9/17/2018 9/17/2018	Risked Risked	<0.00201 <0.00199	<0.00201 <0.00199	<0.00201 <0.00199	<0.00201 <0.00199	<0.00201 <0.00199	<15.0 <15.0	<15.0 <15.0	<15.0 <15.0	<15.0 <15.0	50.3 61.6
3D-2 @ 33		liation Actio	1	10		-0.00177	-0.00199	<0.00199 50	-	~13.0	-	5,000	61.0 600

Released to Imaging: 5/2/2023 2:27:04 PM

Analytical Report 597000

for TRC Solutions, Inc

Project Manager: Joel Lowry

GJ West Coop Unit #108

12-SEP-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





12-SEP-18

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **597000 GJ West Coop Unit #108** Project Address: Lea County,NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 597000. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 597000 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America





Sample Id

RP NSW-1 @ 2'
RP NSW-2 @ 2'
RP ESW-1 @ 2'
RP ESW-2 @ 2'
RP WSW-1 @ 2'
RP WSW-2 @ 2'

Sample Cross Reference 597000



TRC Solutions, Inc, Midland, TX

GJ West Coop Unit #108

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	08-22-18 09:00	2 ft	597000-001
S	08-22-18 09:15	2 ft	597000-002
S	08-22-18 09:30	2 ft	597000-003
S	08-22-18 09:45	2 ft	597000-004
S	08-22-18 10:00	2 ft	597000-005
S	08-22-18 10:15	2 ft	597000-006



Client Name: TRC Solutions, Inc Project Name: GJ West Coop Unit #108

Project ID: Work Order Number(s): 597000 Report Date:12-SEP-18Date Received:08/24/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Project Id:Contact:Joel LowryProject Location:Lea County,NM

Certificate of Analysis Summary 597000

TRC Solutions, Inc, Midland, TX Project Name: GJ West Coop Unit #108



Date Received in Lab:Fri Aug-24-18 12:29 pmReport Date:12-SEP-18Project Manager:Kelsey Brooks

	Lab Id:	597000-0	01	597000-0	02	597000-0	03	597000-0	04	597000-0	05	597000-0	06
Analysis Requested	Field Id:	RP NSW-1	@ 2'	RP NSW-2	@ 2'	RP ESW-1	@ 2'	RP ESW-2	@ 2'	RP WSW-1	@ 2'	RP WSW-2	@ 2'
	Depth:	2- ft		2- ft		2- ft		2- ft		2- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Aug-22-18 0	09:00	Aug-22-18 ()9:15	Aug-22-18 ()9:30	Aug-22-18 (9:45	Aug-22-18	10:00	Aug-22-18 1	10:15
Chloride by EPA 300	Extracted:	Aug-28-18 1	0:00	Aug-28-18	10:00	Aug-28-18 1	0:00	Aug-28-18 1	0:00	Aug-28-18	10:00	Aug-28-18 1	10:00
	Analyzed:	Aug-28-18 1	2:23	Aug-28-18	12:39	Aug-28-18 1	2:45	Aug-28-18 1	3:01	Aug-28-18	13:06	Aug-28-18 1	3:12
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<4.99	4.99	235	4.97	12.9	4.98	210	4.99	153	4.98	97.8	4.98

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kurs Boah

Kelsey Brooks Project Manager



Flagging Criteria



Page 31 of 116

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Form 3 - MS / MSD Recoveries

Project Name: GJ West Coop Unit #108



Work Order # :	597000	Project ID:													
Lab Batch ID:	3061452	QC- Sample ID:	596609	-025 S	Ba	tch #:	1 Matrix	k: Soil							
Date Analyzed:	08/28/2018	Date Prepared:	Date Prepared:08/28/2018Analyst:SCM												
Reporting Units:	mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY													
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag			
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD				
Chloride		324	283	599	97	283	599	97	0	90-110	20				
Lab Batch ID:	3061452	QC- Sample ID:	597000	-001 S	Ba	tch #:	1 Matrix	k: Soil							
Date Analyzed:	08/28/2018	Date Prepared:	08/28/2	018	An	alyst: S	SCM								
Reporting Units:	mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY													
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag			
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD				
Chloride		<4.99	250	243	97	250	243	97	0	90-110	20				

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

	Relinquished by:		Rollinguished hur YII	Relinguished by Samplers A	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURSES	TAT Starts Day received by I ah if received by 5-00 nm	3 Day EMERGENCY	2 Day EMERGENCY X Contract TAT	Next Day EMERGENCY	Same Day TAT 5 Day TAT		10	9	Ø	 6 RP WSW-2 @2'	5 RP WSW-1 @2'	4 RP ESW-2 @2'	3 RP ESW-1 @2'	2 RP NSW-2 @2'	1 RP NSW-1 @2'	rielu i i z i rolini, di Collectioni	Field ID / Boist of Collection	Samplers's Name Becky Griffin	Project Contact: Joel Lowry	110WTY(@)trcsolutions.com 432-466-4450	Email: Phone No:	Midland, TX 79703	Company Address:	TRC Environmental Corporation	Client / Reporting Information			Dallas Texas (214-902-0300)	Statioru, rexas (201-240-4200)
etitutee a valio	Date Time:	Date lime:	8-23-18	Date Tim	ODY MUST B	-00									2ft	2ft	2ft	2ft	2ft	2ft	Sample Depth													
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6	Received By:	3 Kecelve	754	Received By:	ED BELOW E/		1		[9:45	9:30		9:00	Time				COG Operating C/O Becky Haskell		, NM	ation:	Project Name/Number: GJ West Coop Unit #108	Pr			Midland, Texas (432-704-5251)	San Antonio, Texas (210-509-3334)
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				Civilia						Level IV (Full Data Pkg /raw data)					 						NONE												ı	
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C'O 37	. Thermo. Corr. Factor									bcooper@trcsolutions.com											Field Comments	WW= Waste Water A = Air	0=01	UW =Ucean/Sea Water WI = Wipe	SL = Sludge	P = Product	DW = Drinking Water	S = Soli/Sed/Solid GW =Ground Water	W = Water	THE IS COUCO	Matrix Codes	000		

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HAIN OF CUSTODY

Page 1 Of 🔐 🕻

San Antonio, Texas (210-509-3334)

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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 08/24/2018 12:29:00 PM Temperature Measuring device used : R8 Work Order #: 597000 Comments Sample Receipt Checklist .8 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? No #6*Custody Seals Signed and dated? No #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes

#17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 08/24/2018

No

N/A

Checklist completed by: Jawe Matto Shawnee Gomez Checklist reviewed by: Marto Shawnee Gomez Kelsey Brooks

Date: 08/27/2018

Analytical Report 598350

for TRC Solutions, Inc

Project Manager: Joel Lowry

GJ West Coop Unit #011

13-SEP-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **598350 GJ West Coop Unit #011** Project Address: Eddy Co,NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 598350. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 598350 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

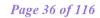
Respectfully,

Huns hoah

Kelsey Brooks Project Manager

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Sample Id

DT-1 SSW-1 @ 3'
DT-1 SSW-2 @ 3'
DT-1 SSW-3 @ 3'
DT-1 ESW-1 @ 3'
DT-1 ESW-2 @ 3'
DT-1 ESW-3 @ 1.5'
DT-1 WSW-1 @ 3'
DT-1 WSW-2 @ 1.5'
DT-1 FL-1@ 6'
DT-1 FL-2 @ 6'
DT-3 SSW @ 1'

Sample Cross Reference 598350



TRC Solutions, Inc, Midland, TX

GJ West Coop Unit #011

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	09-05-18 09:00	3 ft	598350-001
S	09-05-18 09:10	3 ft	598350-002
S	09-05-18 09:20	3 ft	598350-003
S	09-05-18 09:30	3 ft	598350-004
S	09-05-18 09:35	3 ft	598350-005
S	09-05-18 09:50	1.5 ft	598350-006
S	09-05-18 10:00	3 ft	598350-007
S	09-05-18 10:10	1.5 ft	598350-008
S	09-05-18 10:20	6 ft	598350-009
S	09-05-18 10:30	6 ft	598350-010
S	09-05-18 10:40	1 ft	598350-011

.



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: GJ West Coop Unit #011

Project ID: Work Order Number(s): 598350 Report Date: 13-SEP-18 Date Received: 09/07/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Project Id:Contact:Joel LowryProject Location:Eddy Co,NM

Certificate of Analysis Summary 598350

TRC Solutions, Inc, Midland, TX Project Name: GJ West Coop Unit #011



Date Received in Lab:Fri Sep-07-18 01:15 pmReport Date:13-SEP-18Project Manager:Kelsey Brooks

	Lab Id:	598350-0	01	598350-0	02	598350-0	03	598350-0	04	598350-0	05	598350-0	06
Analysis Requested	Field Id:	DT-1 SSW-	@ 3'	DT-1 SSW-2	2@3'	DT-1 SSW-3	8 @ 3'	DT-1 ESW-1	@ 3'	DT-1 ESW-2	2@3'	DT-1 ESW-3	@ 1.5'
Analysis Kequestea	Depth:	3- ft		3- ft		3- ft		3- ft		3- ft		1.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-05-18 ()9:00	Sep-05-18 (09:10	Sep-05-18 0	9:20	Sep-05-18 0	9:30	Sep-05-18 ()9:35	Sep-05-18 0	9:50
Chloride by EPA 300	Extracted:	Sep-11-18	12:15	Sep-11-18	2:15	Sep-10-18 1	6:30	Sep-11-18 1	2:15	Sep-11-18 1	2:15	Sep-11-18 1	2:15
	Analyzed:	Sep-11-18	13:25	Sep-11-18	13:43	Sep-10-18 1	8:48	Sep-11-18 1	3:50	Sep-11-18 1	3:56	Sep-11-18 1	4:02
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		82.5	4.99	121	4.95	193	4.98	104	4.95	179	4.95	23.0	4.96

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kms Boah

Kelsey Brooks Project Manager



Project Id:Contact:Joel LowryProject Location:Eddy Co,NM

Certificate of Analysis Summary 598350

TRC Solutions, Inc, Midland, TX Project Name: GJ West Coop Unit #011



Date Received in Lab:Fri Sep-07-18 01:15 pmReport Date:13-SEP-18Project Manager:Kelsey Brooks

	Lab Id:	598350-0	07	598350-0	08	598350-0	09	598350-0	10	598350-0)11	
Analysis Requested	Field Id:	DT-1 WSW-	1@3'	DT-1 WSW-2	@ 1.5'	DT-1 FL-1	@ 6'	DT-1 FL-2	@ 6'	DT-3 SSW	@ 1'	
Analysis Kequestea	Depth:	3- ft		1.5- ft		6- ft		6- ft		1- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Sep-05-18 1	0:00	Sep-05-18 1	0:10	Sep-05-18 1	0:20	Sep-05-18 1	0:30	Sep-05-18	10:40	
Chloride by EPA 300	Extracted:	Sep-10-18 1	6:30	Sep-11-18 1	2:15	Sep-11-18 1	2:15	Sep-11-18 1	2:15	Sep-11-18 1	12:15	
	Analyzed:	Sep-10-18 2	20:14	Sep-11-18 1	4:21	Sep-11-18 1	4:27	Sep-11-18 1	4:33	Sep-11-18 1	4:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		156	5.02	169	4.96	50.2	5.00	247	4.94	252	4.99	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kuns Boah

Kelsey Brooks Project Manager

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Flagging Criteria



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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



BS / BSD Recoveries



Project Name: GJ West Coop Unit #011

Work Orde	r #: 598350							Pro	ject ID:			
Analyst:	SCM	D	ate Prepai	ed: 09/10/20	18			Date A	nalyzed:	09/10/2018		
Lab Batch ID	Sample: 7661	993-1-BKS	Batc	h #: 1					Matrix:	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE /	BLANK	SPIKE DUP	LICATE	RECOV	ERY STUI)Y	
Analy	Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		<5.00	250	255	102	250	254	102	0	90-110	20	
Analyst:	SCM	D	ate Prepai	red: 09/11/20	18	-	1	Date A	nalyzed:	09/11/2018	+	<u>ا</u> لــــــــــــــــــــــــــــــــــــ
Lab Batch ID	Sample: 76620	038-1-BKS	Batc	h #: 1					Matrix:	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE /	BLANK	SPIKE DUP	LICATE	RECOV	ERY STUI	D Y	
Analy	Chloride by EPA 300 ytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		<5.00	250	254	102	250	255	102	0	90-110	20	

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: GJ West Coop Unit #011



.

Work Order # :	598350						Project II):				
Lab Batch ID:	3062687	QC- Sample ID:	598350	-003 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	09/10/2018	Date Prepared:	09/10/2	018	An	alyst: S	SCM					
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		193	249	435	97	249	437	98	0	90-110	20	
Lab Batch ID:	3062687	QC- Sample ID:	598350	-007 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	09/10/2018	Date Prepared:	09/10/2	018	An	alyst: S	SCM					
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		156	251	407	100	251	403	98	1	90-110	20	
Lab Batch ID:	3062836	QC- Sample ID:	598340	-001 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	09/11/2018	Date Prepared:	09/11/2	018	An	alyst: S	SCM					
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		322	250	558	94	250	556	94	0	90-110	20	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery $[G] = 100^{*}(F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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Form 3 - MS / MSD Recoveries

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Project Name: GJ West Coop Unit #011

Work Order # :	598350						Project II) :				
Lab Batch ID:	3062836	QC- Sample ID:	598350	-001 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	09/11/2018	Date Prepared:	09/11/2	018	An	alyst: S	SCM					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERYS	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		82.5	250	330	99	250	331	99	0	90-110	20	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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LABORATORIES

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Midland, Texas (432-704-5251)			racure
WWW.Xanco.c			
		Analytical Information	Matrix Codes
Project Information			
-			W = Water S = Sol/Sed/Solid
ĺ			GW =Ground Water
			DW = Drinking Water P = Product
0			
DECANDO	Ľ		
	C	00 ene . 8 M	
Collection	Number of preserved bottles	enze	
Date Time Matrix bottles	Acetate INO3 I2SO4 IaOH IaHSO4 IEOH IONE	Chlorida NORM RCI TCLP E TCLP F Chlorida	
1 5 00:0 20-2-9			
9.5.18		×	
FT 9.5.8 9:20 5 1		~	
FT9-5-189:3051		*	
FT 9.5-189:35 5 1		ĸ	
55-9.509:50 5 1			
FT 9.5-18 10:00 5 1		4	
517-9-5-8 10:10 5 1		×	
FT 9-5-BIO.20 5)		×	
9-5-18 10:30 5		×	
Level II Std QC	Level IV (Full Data Pkg		3 com
Level III Std QC+ Forms	TRRP Level IV	zconder@trcsolutic	<u>ins.com</u>
Level 3 (CLP Forms)	UST / RG -411	bcooper@trcsolutio	ons.com
TRRP Checklist		LASK	
			2842412480000000000000000000000000000000
to Time: Reperved By:		Q//a/18 4.29	RILLA NILLANDAN
	ReWnquished By:	me:	192
	Custody Seal #	Preserved where applicable	On Ice Cooler Temp. Thermo. Corr. Factor -(), 4 $y = 0$
t valid purchase order from client company to Xenco, its affilia nd the control of Xenco. A minimum charge of \$75 will be appl	tes and subcontractors. It assigns standard term ied to each project. Xenco's liability will be limited	s and conditions of service. Xenco will be liable only I to the cost of samples. Any samples received by)	y for the cost of samples and shall not assume any responsibility for any Kenco but not analyzed will be invoiced at \$5 per sample. These terms will
	ford, Toxas (241-900-000) San Antono, Toxas (210-900-000) Nidland, Toxas (22700-2351) is Toxas (214-900-000) Nidland, Toxas (22700-2351) Intransition View Participation Figlet Information Figlet Information View Participation Prove No: Figlet Information Connac: Figlet Information Figlet Information Figlet Information Prove No: Figlet Information Connac: Figlet Information Figlet Information Figlet Information Figlet Information Figlet Informatio	San Antonio, Texas (210-090-334) Internation Internation Project Information Project Information Project Information Project Inform Project Information <	San Antonio, Texas (210-509-3334) minimizer minimizer

Page 46 of 116

CHAIN OF CUSTODY

Project Contact: Joel Lowry Samplers's Name: Email: 10 Desta Dr. Suite 150E Company Address: Company Name / Branch: TRC Environmental Corporation Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negolitated under a fully executed client contract. <u>N</u>o. Midland, TX 79705 4 თ сл ω N 5 ശ œ Þ Dallas Texas (214-902-0300) Stafford, Texas (281-240-4200) 2 Day EMERGENCY **Relinquished by:** 3 Day EMERGENCY Relinquished **Relinguished by Sau** 7 ilowry@trcsolutions.com **Client / Reporting Information** Next Day EMERGENCY TAT Starts Day received by Lab, if received by 5:00 pm Same Day TAT Turnaround Time (Business days) E N Field ID / Point of Collection 22 0 X Contract TAT 7 Day TAT 5 Day TAT • Phone No: 432-466-4450 SAMPLE CUSTODY MUST 9 - 6 - 18 Date Time: Sample Date Time: Date Time: Depth -8-5-18 San Antonio, Texas (210-509-3334) LOG OPELATINGS/BECKY HASKED Midland, Texas (432-704-5251) DOCUMENTED Collection Epty Co, Sr Date ļ, V BELOW EACH TIME SAMPLES CHANGE POSS Received By: 10:61 SEST COOP LINIT Received By Time Project Information **TRRP** Checklist Level 3 (CLP Forms) Level III Std QC+ Forms Level II Std QC Matrix angon www.xenco.com Data Deliverable Information bottles # of HCI NaOH/Zn Number of preserved bottles cetate -INO3 Relinquished By: UST / RG -411 12504 Custody Seal # Relinquished By: SION, INCLUDING COURIER DELIVERY TRRP Level IV Level IV (Fuli Data Pkg /raw data) man iaOH 110 # laHSO4 **IEOH** NONE Phoenix, Arizona (480-355-0900) Xenco Quote # TPH TX1005 Preserved where applicable Chloride E 300 81/0/18 Date Time: Date Time: NORM Analytical Information RCI 4:23 FED-EX/UPS: Tracking # bcooper@trcsolutions.com ilowry@trcsolutions.com zconder@trcsolutions.com TCLP Benzene Notes: TCLP RCRA 8 Metals Xenco Job # Chloride TPH 8015 M Ext (NM) On Ice ł Cooler Ĉ 'emp Field Comments S = Soil/Sed/Soiid GW =Ground Water DW = Drinking Water P = Product SL = Sludge OW =Ocean/Sea Water SW = Surface water A = Air0 = 01 WI = Wipe W = Water WW= Waste Water perme Corr. Factor Matrix Codes è S 0

Received by OCD: 4/7/2023 9:34:25 AM

Received by OCD: 4/7/2023 9:34:25 AM



VENICO Laboratorias



Prelogin mple Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 09/07/2018 01:15:00 PM Temperature Measuring device used : R8 Work Order #: 598350 Comments Sample Receipt Checklist -.4 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes Yes #16 All samples received within hold time? N/A

#17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 09/07/2018

N/A

Checklist completed by: Bianna Teel Checklist reviewed by: Mark Moak Kelsey Brooks

Date: 09/07/2018

XENCO Laboratories
/Nonconformance Report- Sa

Analytical Report 598987

for TRC Solutions, Inc

Project Manager: Joel Lowry

GJ West Coop Unit 011

19-SEP-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **598987 GJ West Coop Unit 011** Project Address: Eddy Co, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 598987. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 598987 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

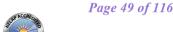
Respectfully,

Huns hoah

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America





Sample Id

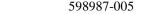
DT-3 FL @3'
DT-3-WSW @1.5'
DT-3 ESW-1 @1.5'
DT-3 ESW-2 @ 1.5'
DT-2 SSW-1 @1'
DT-2 SSW-2 @1'
DT-2 WSW @1'
DT-2 FL-1 @2'
DT-2 FL-2 @2'

Sample Cross Reference 598987



GJ West Coop Unit 011

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	09-12-18 09:00	3 ft	598987-001
S	09-12-18 09:10	1.5 ft	598987-002
S	09-12-18 09:20	1.5 ft	598987-003
S	09-12-18 09:30	1.5 ft	598987-004
S	09-12-18 09:40	1 ft	598987-005
S	09-12-18 09:50	1 ft	598987-006
S	09-12-18 10:00	1 ft	598987-007
S	09-12-18 10:10	2 ft	598987-008
S	09-12-18 10:20	2 ft	598987-009



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Client Name: TRC Solutions, Inc Project Name: GJ West Coop Unit 011

Project ID: Work Order Number(s): 598987 Report Date: 19-SEP-18 Date Received: 09/13/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Project Id:Contact:Joel LowryProject Location:Eddy Co, NM

Certificate of Analysis Summary 598987

TRC Solutions, Inc, Midland, TX Project Name: GJ West Coop Unit 011



Date Received in Lab:Thu Sep-13-18 12:51 pmReport Date:19-SEP-18Project Manager:Kelsey Brooks

	Lab Id:	598987-0	01	598987-0	02	598987-0	03	598987-0	04	598987-0	05	598987-0	06
Analysis Requested	Field Id:	DT-3 FL	@3'	DT-3-WSW	@1.5'	DT-3 ESW-1	@1.5'	DT-3 ESW-2	@ 1.5'	DT-2 SSW-	1 @1'	DT-2 SSW-2	2 @1'
Analysis Kequesieu	Depth:	3- ft		1.5- ft		1.5- ft		1.5- ft		1- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 09:00		Sep-12-18 ()9:10	Sep-12-18 (09:20	Sep-12-18 (9:30	Sep-12-18 ()9:40	Sep-12-18 0	9:50
Chloride by EPA 300	hloride by EPA 300 Extracted: Sep-17-18 16:45		16:45	Sep-17-18 16:45		Sep-17-18 1	6:45	Sep-17-18 1	6:45	Sep-17-18 1	6:45	Sep-17-18 1	6:45
	Analyzed: Sep-17-18 19:07		19:07	Sep-17-18 19:17		Sep-17-18 1	9:27	Sep-17-18 1	9:38	Sep-18-18 (9:09	Sep-18-18 0	9:19
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		20.2	4.98	30.7	4.96	319	4.98	96.5	4.97	36.4	4.95	30.5	4.99

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kurshoah

Kelsey Brooks Project Manager



Project Id:Contact:Joel LowryProject Location:Eddy Co, NM

Certificate of Analysis Summary 598987

TRC Solutions, Inc, Midland, TX Project Name: GJ West Coop Unit 011



Date Received in Lab:Thu Sep-13-18 12:51 pmReport Date:19-SEP-18Project Manager:Kelsey Brooks

	Lab Id:	598987-0	07	598987-0	08	598987-0	09			
Analysis Requested	Field Id:	DT-2 WSW	@1'	DT-2 FL-1	@2'	DT-2 FL-2	@2'			
Anulysis Kequesleu	Depth:	1- ft		2- ft		2- ft				
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	Sep-12-18 1	0:00	Sep-12-18 10:10		Sep-12-18 1	0:20			
Chloride by EPA 300	Extracted:	Sep-17-18 1	6:45	Sep-17-18 1	Sep-17-18 16:45		6:45			
	Analyzed:	Sep-18-18 ()9:50	Sep-18-18 1	Sep-18-18 10:00		0:11			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		156	4.96	71.5	4.98	33.5	4.97			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kurshoah

Kelsey Brooks Project Manager



Flagging Criteria



Page 54 of 116

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



BS / BSD Recoveries



Project Name: GJ West Coop Unit 011

Work Order	:#: 598987								Proj	ect ID:			
Analyst:	SCM		D	ate Prepar	red: 09/17/201	.8			Date A	nalyzed: (9/17/2018		
Lab Batch ID	: 3063649	Sample: 7662457-1-	BKS	Bate	h #: 1		Matrix: Solid						
Units:	mg/kg			BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUD	ΟY	
	Chloride by EPA	. 300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analy	ytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride			<4.99	250	249	100	250	248	99	0	90-110	20	

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

SUP ACCREDIES

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.

Project Name: GJ West Coop Unit 011

Work Order # :	598987						Project II):				
Lab Batch ID:	3063649	QC- Sample ID:	598987	-004 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed:	09/18/2018	Date Prepared:	09/17/2	018	An	alyst: S	SCM					
Reporting Units:	mg/kg		N	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		96.5	249	336	96	249	333	95	1	90-110	20	
Lab Batch ID:	3063649	QC- Sample ID:	599223	-028 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed:	09/17/2018	Date Prepared:	09/17/2	018	An	alyst: S	SCM					
Reporting Units:	mg/kg		N	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		76.8	249	351	110	249	352	111	0	90-110	20	X

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 9 of 11

Page 57 of 116

CHAIN OF CUSTODY

Page 1 Of 1

Setting the Standard since 1990 Stafford, Texas (281-240-4200)	San Antonio, Te	San Antonio, Texas (210-509-3334)	Phoe	Phoenix Arizona (480-355-0000)	-	
Dallas Texas (214-902-0300)	Midland, Texas (432-704-5251)	(432-704-5251)		מווה, הווגטוומ (דטט-טטט-טפטט		
		WWW.Xenco.com	Xenco	Xenco Quote #	Xenco Job #	10101
				Analytical Information	9 n	Matrix Codes
Client / Reporting Information		Project Information				
Company Name / Branch: TRC Envloymmental Corporation	Project Name/Numb	Scient Name Alumber:	#011			W = Water S = Soil/Sed/Solid
vompunj Avuress. 10 Desta Dr. Suite 150E Midland, TX 79705	EDD	6.03				GW =Ground Water DW = Drinking Water
Email: Phone No: ilowny@trcsolutions.com 432-466-4450	Invoice To:	0		S	1)	SW = Surface water SL = Sludge
Project Contact: Joel Lowry	Invoice: A O	OPELATING SDE	Ky HASKEL		xt (NM	OW =Ocean/Sea Water WI = Wipe
Samplers's Name: DECK4 (E) (C)		<i>L</i>		nzene	ME	O ≔ On WW= Waste Water A = Air
No. Field ID / Point of Collection		Zn)4	IM P Bei		
	Sample Tir Depth Date Tir	Time Matrix bottles HCI NaOH/2 Acetate	H2SO4 NaOH NaHSO MEOH NONE TPH		Chloi TPH	Field Comments
1 DT-3 FLO 3	3FT 9-12-18 9:00	1 5 00;		*		
2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.SA 9:	1:10 5 1		X		
3 DT-3 ESWS-1@ 1/2'	1.5m / 9:	9:20 5 1		×		
4 1X1-3 ESW2. 2/0 1/2	1.587 (7:			X		
5 DT-255W-1@1'	177 19:	9:4051		×		e .
· Di-2550-201		50 5		X		
wsw a	167 / 10	10:00 5 1		X		
8 BT-Z FL-1 @ 2.	287 10	1 2 01:01		X		
0 DT-2 FL-2 C2'	215 1 10:	2051		×		
10						
Turnaround Time (Business days)		Data Deliverable Information	3	Notes:		
Same Day TAT S Day TAT		Level II Std QC	Level IV (Full Data Pkg /raw data)		ilowry@trcsolutions.com	DM
Next Day EMERGENCY		Level III Std QC+ Forms	TRRP Level IV	zconder@	zconder@trcsolutions.com	-04
2 Day EMERGENCY		Level 3 (CLP Forms)	UST / RG -411	bcooper@	bcooper@trcsolutions.com	2.27
3 Day EMERGENCY] TRRP Checklist		2	2	
TAT Starts Day received by Lab, if received by 5:00 pm	-			FED-EX / U	FED-EX / UPS: Tracking # 0000	BIDTCIPS
hu Samalar	DOCUMENTED	BELOW EACH TIME SAMPLES CHANGE POSSE			k	
by Sampler	P-12-18 1	Received By:	2 1	0 01-12-13	NLM Report	X qlula
Relinquished by:		seived By:	Relinquished By:	Date Time:	Received By:	
5 5	Date Time: Rec 5	Received By: 5	Custody Seal #	Preserved where applicable	On Ice Cool	Cooler Temp. Thermo. Corr. Factor
Nolice: Nolice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be involced at \$5 per sample. These be enforced unless previously negotiated under a fully executed client contract.	es a valid purchase order from clit syond the control of Xenco. A mini	ent company to Xenco, Its affiliates and subco intum charge of \$75 will be applied to each pro	ntractors. It assigns standard terms and oject. Xenco's liability will be limited to th	conditions of service. Xenco will be le cost of samples. Any samples rec	liable only for the cost of samples a eived by Xenco but not analyzed wi	and shall not assume any responsibility for any Il be invoiced at \$5 per sample. These terms will cased

Final 1.000

Received by OCD: 4/7/2023 9:34:25 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 09/13/2018 12:51:00 PM Temperature Measuring device used : R8 Work Order #: 598987 Comments Sample Receipt Checklist 1.4 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? N/A

#18 Water VOC samples have zero headspace?

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 09/13/2018

N/A

Checklist completed by: Bianna Teel Checklist reviewed by: Markoath Kelsey Brooks

Date: 09/14/2018

Analytical Report 599392

for TRC Solutions, Inc

Project Manager: Joel Lowry

GJ West Coop Unit #011

25-SEP-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



25-SEP-18

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **599392 GJ West Coop Unit #011** Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 599392. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 599392 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

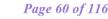
Respectfully,

Huns hoah

Kelsey Brooks Project Manager

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Sample Id

DT-2 FL-3 @2'
DT-2 NSW- 1@1'
DT-2 NSW-2 @1'
DT-2 WSW-2 @1'
DT-2 ESW-1 @1'
DT-2 ESW-2@1'
DT-2 SSW @1'
DT-3 FL-2 @3'
DT-3 NSW- @1.5
DT-3 WSW-2 @1.5

Sample Cross Reference 599392



TRC Solutions, Inc, Midland, TX

GJ West Coop Unit #011

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	09-17-18 08:00	2 ft	599392-001
S	09-17-18 08:10	1 ft	599392-002
S	09-17-18 08:20	1 ft	599392-003
S	09-17-18 08:30	1 ft	599392-004
S	09-17-18 08:40	1 ft	599392-005
S	09-17-18 08:50	1 ft	599392-006
S	09-17-18 09:00	1 ft	599392-007
S	09-17-18 10:00	1 ft	599392-008
S	09-17-18 10:10	1.5 ft	599392-009
S	09-17-18 10:20	1.5 ft	599392-010



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: GJ West Coop Unit #011

Project ID: Work Order Number(s): 599392 Report Date:25-SEP-18Date Received:09/18/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Project Id: Contact: Joel Lowry Project Location:

Certificate of Analysis Summary 599392

TRC Solutions, Inc, Midland, TX Project Name: GJ West Coop Unit #011



Date Received in Lab:Tue Sep-18-18 09:47 amReport Date:25-SEP-18Project Manager:Kelsey Brooks

	Lab Id:	599392-0	01	599392-0	02	599392-0	03	599392-0	04	599392-0	05	599392-0	06
Analysis Requested	Field Id:	DT-2 FL-3	DT-2 FL-3 @2'		DT-2 NSW- 1@1'		DT-2 NSW-2 @1'		DT-2 WSW-2 @1'		1 @1'	DT-2 ESW-2	2@1'
Analysis Kequesieu	Depth:	2- ft		1- ft		1- ft		1- ft		1- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-17-18 (Sep-17-18 08:00		Sep-17-18 08:10		8:20	Sep-17-18 (8:30	Sep-17-18 (08:40	Sep-17-18 0	8:50
Chloride by EPA 300	Extracted:	<i>Extracted:</i> Sep-21-18 10:50		Sep-21-18 10:50		Sep-21-18 10:50		Sep-21-18 10:50		Sep-21-18 1	0:50	Sep-21-18 1	0:50
	Analyzed:	Sep-21-18 1	Sep-21-18 16:34		6:51	Sep-21-18 1	6:56	Sep-21-18 1	6:00	Sep-21-18 1	7:22	Sep-21-18 1	7:28
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		59.9	4.95	290	4.95	<4.97	4.97	58.3	4.97	234	5.00	264	5.00

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Kms Boah

Kelsey Brooks Project Manager

Page 5 of 12



Project Id: Contact: Joel Lowry Project Location:

Certificate of Analysis Summary 599392

TRC Solutions, Inc, Midland, TX Project Name: GJ West Coop Unit #011



Date Received in Lab:Tue Sep-18-18 09:47 amReport Date:25-SEP-18Project Manager:Kelsey Brooks

	Lab Id:	599392-0	07	599392-0	08	599392-0	09	599392-0	10		
Analysis Requested	Field Id:	DT-2 SSW	@1'	DT-3 FL-2	@3'	DT-3 NSW-	@1.5	DT-3 WSW-2	@1.5		
Analysis Kequesieu	Depth:	1- ft		1- ft		1.5- ft		1.5- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Sep-17-18 (09:00	Sep-17-18 1	0:00	Sep-17-18	10:10	Sep-17-18 1	0:20		
Chloride by EPA 300	Extracted:	Sep-21-18	10:50	Sep-21-18 1	0:50	Sep-21-18 1	10:50	Sep-21-18 1	0:50		
	Analyzed:	Sep-21-18	17:33	Sep-21-18 1	7:56	Sep-21-18 1	8:02	Sep-21-18 1	8:19		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride	406	4.95	<4.99	4.99	51.8	4.95	< 5.00	5.00			

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Kms Boah

Kelsey Brooks Project Manager

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Flagging Criteria



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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



BS / BSD Recoveries



Project Name: GJ West Coop Unit #011

Work Order	:#: 599392					Project ID:									
Analyst:	SCM		D	ate Prepa	red: 09/21/201	Date Analyzed: 09/21/2018									
Lab Batch ID	: 3064137	Sample: 7662774-1-	BKS	KS Batch #: 1 Matrix: Solid											
Units:	mg/kg			BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	ΟY			
	Chloride by EPA		Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Analy	vtes			[B]	[C]	[D]	[E]	Result [F]	[G]						
Chloride			<5.00	250	250	100	250	252	101	1	90-110	20			

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

TNI REGRATORY

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.

Project Name: GJ West Coop Unit #011

Work Order # :	599392						Project II):							
Lab Batch ID:	3064137	QC- Sample ID:	599392	-004 S	Ba	tch #:	1 Matrix	x: Soil							
Date Analyzed:	09/21/2018	Date Prepared:	09/21/2	018	An	alyst: S	SCM								
Reporting Units:	mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY													
	Chloride by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result	Spiked Sample %R	Spike Added	Duplicate Spiked Sample	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag			
	Analytes	[A]	[B]	[C]	⁷ 6K [D]	[E]	Result [F]	%K [G]	70	70K	70KFD				
Chloride		58.3	249	325	107	249	326	108	0	90-110	20				
Lab Batch ID:	3064137	QC- Sample ID:	599508	-001 S	Ba	tch #:	1 Matrix	x: Soil							
Date Analyzed:	09/21/2018	Date Prepared:	09/21/2	018	An	alyst: S	SCM								
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	IKE DUPLICA	TE REC	OVERY	STUDY					
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag			
	Analytes		Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD				
Chloride		674	248	896	90	248	898	90	0	90-110	20				

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 9 of 12

TAT: ASAP 5h 12h TAT: ASAP 5h 12h TAT: ASAP 5h 12h 24h 48h 3d TAT: ASAP 5h 12h 24h 48h 3d 8310 8270 8270 7Vorking Days for level 7Vorking Days fo	Tom Cip O ACC is Tom Cip ACC is Tom Cip ACC is Tom Cip ACC is ACC is <th>Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L) Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order</th> <th>Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various v</th> <th></th> <th></th> <th>Time Bolinguished to</th> <th>DT-3 NSW- 1/2 9-17-18</th> <th>DI-3 FL-203 9-17-18 10:00 3FTS 1 I</th> <th>DT-2551201 9-17-18 9:00 1FTS 1 F</th> <th>1' 9-17-18 8:50 1875 1</th> <th>57-2 WSW-2019-17-188:30 1873 1 T</th> <th>DT-2 NSW-20119-17-18 8:20 1575 1 J</th> <th>20T-2550-10119-17-18 8:10 1775 1 5</th> <th>1-2FC3@2 9-17-18 8:00 2755 1 5</th> <th>Sampler Name Sample ID Date Time Depth ft' In" m Matrix Composite Grab # Container Size Container Type Preservatives</th> <th>IIC SouthTrock H32-4466-4450 Project Name-Location EPreviously done at XENCO Project ID OT LLET Cool LLA.T Fol. Proj. State: TX, AL, FL, GA, LA, MS, NC, Proj. Manager (PM) Secol Lo SL Fax No: NJ, PA, SC, TN, UT Other Scool LA.T.T. Secol Lo SL Fax No: E-mail Results to Cool LA.T.T. Scool L.S. Scol Lo SL Fax No: Invoice to Cool LA.T. Scool L.S. Scol Lo SL Fax No: Invoice to Cool LA.T. Scool L.S. Scol Lo SL Fax No: Sub Edd TE Sould Trows. Co. Fax No: Invoice to Cool Cool LA.T. Scool L.S. Scol Lo SL Fax No: Sub Edd TE Sould Trows. Co. Fax No: Invoice to Cool Cool LA.T. Scool L.S. Scol La Scol</th>	Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L) Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order	Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various v			Time Bolinguished to	DT-3 NSW- 1/2 9-17-18	DI-3 FL-203 9-17-18 10:00 3FTS 1 I	DT-2551201 9-17-18 9:00 1FTS 1 F	1' 9-17-18 8:50 1875 1	57-2 WSW-2019-17-188:30 1873 1 T	DT-2 NSW-20119-17-18 8:20 1575 1 J	20T-2550-10119-17-18 8:10 1775 1 5	1-2FC3@2 9-17-18 8:00 2755 1 5	Sampler Name Sample ID Date Time Depth ft' In" m Matrix Composite Grab # Container Size Container Type Preservatives	IIC SouthTrock H32-4466-4450 Project Name-Location EPreviously done at XENCO Project ID OT LLET Cool LLA.T Fol. Proj. State: TX, AL, FL, GA, LA, MS, NC, Proj. Manager (PM) Secol Lo SL Fax No: NJ, PA, SC, TN, UT Other Scool LA.T.T. Secol Lo SL Fax No: E-mail Results to Cool LA.T.T. Scool L.S. Scol Lo SL Fax No: Invoice to Cool LA.T. Scool L.S. Scol Lo SL Fax No: Invoice to Cool LA.T. Scool L.S. Scol Lo SL Fax No: Sub Edd TE Sould Trows. Co. Fax No: Invoice to Cool Cool LA.T. Scool L.S. Scol Lo SL Fax No: Sub Edd TE Sould Trows. Co. Fax No: Invoice to Cool Cool LA.T. Scool L.S. Scol La Scol
	nd its affiliates,	Committed to Excellence in Service and amples constitutes a valid purchase order from client com	DH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), arious (V), Other	20	110 4-11-16 2:38										VOA: Full-List BTEX-M VOA: PP TCL DW A PAHS SIM 8310 & TX-1005 DRO GRO SVOCs: Full-List DW OC Pesticides PC BS I Metals: RCRA-8 RCRA- SPLP - TCLP (Metals EDB / DBCP	ppdx-1 Appdx-2 CALL Other: %

Received by OCD: 4/7/2023 9:34:25 AM

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ANALTOID KERVEDI & CHAIN OF CUDIODY RECORD



Released to Imaging: 5/2/2023 2:27:04 PM

Received by OCD: 4/7/2023 9:34:25 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 09/18/2018 09:47:00 AM Temperature Measuring device used : R8 Work Order #: 599392 Comments Sample Receipt Checklist .2 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? N/A

#18 Water VOC samples have zero headspace?

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 09/18/2018

N/A

Checklist completed by: Bianna Teel Checklist reviewed by: Markoath Kelsey Brooks

Date: 09/19/2018



Project Id:GJ West #108Contact:Joel LowryProject Location:Loco Hiss, NM

Certificate of Analysis Summary 600459

TRC Solutions, Inc, Midland, TX Project Name: GJ West #108

Date Received in Lab:Thu Sep-27-18 03:05 pmReport Date:03-OCT-18Project Manager:Kelsey Brooks

	Lab Id:	600459-0	01	600459-0	02	600459-0	03	600459-0	04	600459-0	005	600459-0	06
Analysis Requested	Field Id:	108 - SSW #1		108 - SSW #3		108 - SSW #4		108 - NSW #1		108 - NSW #2		108 - NSW	/ #3
Anulysis Kequesleu	Depth:												
	Matrix:	SOIL	SOIL		SOIL		SOIL			SOIL		SOIL	
	Sampled:	Sep-25-18 ()8:45	Sep-25-18 (09:00	Sep-25-18 (9:05	Sep-25-18 (09:10	Sep-25-18	09:15	Sep-25-18 0	9:20
Chloride by EPA 300	Extracted:	Oct-01-18	1:00	Oct-01-18 1	1:00	Oct-01-18 1	1:00	Oct-01-18 1	1:00	Oct-01-18	1:00	Oct-01-18 1	1:00
	Analyzed:	Oct-01-18	4:34	Oct-01-18 1	5:11	Oct-01-18 1	5:23	Oct-01-18 1	5:36	Oct-01-18	15:48	Oct-01-18 1	6:00
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride	26.2	25.0	35.9	25.0	47.8	25.0	199	25.0	287	25.0	<25.0	25.0	

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Version: 1.%

fession kramer

Jessica Kramer Project Assistant

Page 71 of 116



Project Id:GJ West #108Contact:Joel LowryProject Location:Loco Hiss, NM

Certificate of Analysis Summary 600459

TRC Solutions, Inc, Midland, TX Project Name: GJ West #108

Date Received in Lab:Thu Sep-27-18 03:05 pmReport Date:03-OCT-18Project Manager:Kelsey Brooks

	Lab Id:	600459-0	07	600459-0	08	600459-0	09	600459-0	010		
Analysis Requested	Field Id:	108 - ESW	108 - ESW #1		108 - SSW #2		108 - SSW #5		V #2		
Analysis Kequeslea	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Sep-25-18 ()9:25	Sep-25-18 0	9:30	Sep-25-18 0	9:35	Sep-25-18 (09:40		
Chloride by EPA 300	Extracted:	Oct-01-18	1:00	Oct-01-18 1	1:00	Oct-01-18 1	1:00	Oct-01-18 1	1:00		
	Analyzed:	Oct-01-18	6:13	Oct-01-18 1	6:25	Oct-01-18 1	6:38	Oct-01-18 1	6:50		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		224	25.0	<25.0	25.0	312	25.0	361	25.0		

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Version: 1.%

fession kramer

Jessica Kramer Project Assistant

Final 1.000

Analytical Report 600459

for TRC Solutions, Inc

Project Manager: Joel Lowry

GJ West #108

GJ West #108

03-OCT-18

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





03-OCT-18

Project Manager: Joel Lowry **TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 600459 **GJ West #108** Project Address: Loco Hiss, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 600459. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 600459 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Veramer

Jessica Kramer **Project Assistant**

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 600459

TRC Solutions, Inc, Midland, TX

GJ West #108

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	09-25-18 08:45		600459-001
S	09-25-18 09:00		600459-002
S	09-25-18 09:05		600459-003
S	09-25-18 09:10		600459-004
S	09-25-18 09:15		600459-005
S	09-25-18 09:20		600459-006
S	09-25-18 09:25		600459-007
S	09-25-18 09:30		600459-008
S	09-25-18 09:35		600459-009
S	09-25-18 09:40		600459-010

108 -	SSW #1
108 -	SSW #3
108 -	SSW #4
108 -	NSW #1
108 -	NSW #2
108 -	NSW #3
108 -	ESW #1
108 -	SSW #2
108 -	SSW #5
108 -	ESW #2

Version: 1.%

.



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: GJ West #108

Project ID: GJ West #108 Work Order Number(s): 600459

ATORIES

 Report Date:
 03-OCT-18

 Date Received:
 09/27/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



TRC Solutions, Inc, Midland, TX

GJ West #108

Sample Id:	108 - SSW #1		Matrix:	Soil		Date Received	d:09.27.18 15.0	5
Lab Sample Id: 600459-001			Date Colle	Date Collected: 09.25.18 08.45				
Analytical M	ethod: Chloride by EPA	300				Prep Method:	E300P	
Tech:	RNL					% Moisture:		
Analyst:	RNL		Date Prep:	10.01.18 11.00		Basis:	Wet Weight	
Seq Number:	3064981							
Parameter		Cas Number	Result	RL	Units	Analysis D	ate Flag	Dil

16887-00-6 26.2

25.0

10.01.18 14.34

mg/kg

1



TRC Solutions, Inc, Midland, TX

GJ West #108

Sample Id: 108 - SSW #3 Lab Sample Id: 600459-002			Matrix:	Soil cted: 09.25.18 09.00	Date Received:09.27.18 15.05			
-	ethod: Chloride by EPA 3	800	Date Conce		Ι	Prep Method:	E300P	
Tech:	RNL				9	% Moisture:		
Analyst:	RNL		Date Prep:	10.01.18 11.00	H	Basis:	Wet Weight	
Seq Number:	3064981							
Parameter		Cas Number	Result	RL	Units	Analysis Da	ite Flag	Dil

16887-00-6 35.9

25.0

10.01.18 15.11 mg/kg

1



TRC Solutions, Inc, Midland, TX

GJ West #108

Parameter		Cas Number	Result	RL	Units	Analysis D	ate Flag	Dil
Seq Number:	3064981							
Analyst:	RNL		Date Prep:	10.01.18 11.00		Basis:	Wet Weig	ht
Tech:	RNL					% Moisture:		
Analytical Me	ethod: Chloride by EPA 3	800				Prep Method:	E300P	
Lab Sample I	d: 600459-003		Date Collec	cted: 09.25.18 09.05				
Sample Id:	108 - SSW #4		Matrix:	Soil		Date Received	d:09.27.18 1	5.05

16887-00-6 47.8

25.0

10.01.18 15.23

mg/kg

1



TRC Solutions, Inc, Midland, TX

GJ West #108

Sample Id:	108 - NSW #1		Matrix:	Soil		Date Receive	d:09.27.18 15.0)5
Lab Sample Id	l: 600459-004		Date Colle	cted: 09.25.18 09.10				
Analytical Me	thod: Chloride by EPA 3	300				Prep Method:	E300P	
Tech:	RNL					% Moisture:		
Analyst:	RNL		Date Prep:	10.01.18 11.00		Basis:	Wet Weight	
Seq Number:	3064981							
Parameter		Cas Number	Result	RL	Units	Analysis D	ate Flag	Dil

199

16887-00-6

25.0

10.01.18 15.36

mg/kg

1



TRC Solutions, Inc, Midland, TX

GJ West #108

Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Seq Number:	3064981							
Analyst:	RNL		Date Prep:	10.01.18 11.00	1	Basis:	Wet Weight	
Tech:	RNL				ç	% Moisture:		
Analytical Me	ethod: Chloride by EPA 3	300			I	Prep Method:	E300P	
Lab Sample I	d: 600459-005		Date Collec	eted: 09.25.18 09.15				
Sample Id:	108 - NSW #2		Matrix:	Soil	I	Date Received	1:09.27.18 15.0	5

287

16887-00-6

25.0

10.01.18 15.48 mg/kg

1

Released to Imaging: 5/2/2023 2:27:04 PM

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Final 1.000



TRC Solutions, Inc, Midland, TX

GJ West #108

Sample Id: 108 - NSW #3 Lab Sample Id: 600459-006		Matrix: Date Collecte	Matrix: Soil Date Collected: 09.25.18 09.20			Date Received:09.27.18 15.05			
Analytical Method: Chloride	by EPA 300	Date Concete	d. 07.25.10 07.20]	Prep Method:	E300P			
Tech: RNL				Q	% Moisture:				
Analyst: RNL		Date Prep:	10.01.18 11.00]	Basis:	Wet Weight			
Seq Number: 3064981									
Parameter	Cas Number	Result R	RL .	Units	Analysis Dat	te Flag	Dil		

16887-00-6

<25.0 25.0

10.01.18 16.00

mg/kg

U

1



TRC Solutions, Inc, Midland, TX

GJ West #108

Chloride		16887-00-6	224	25.0	mg/kg	10.01.18 16.13		1
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number:	3064981							
Analyst:	RNL		Date Prep:	10.01.18 11.00]	Basis: We	t Weight	
Tech:	RNL				0	% Moisture:		
Analytical Me	ethod: Chloride by EPA	300]	Prep Method: E30	00P	
Lab Sample Id: 600459-007			Date Colle	octed: 09.25.18 09.25	9.25			
Sample Id: 108 - ESW #1			Matrix:	Soil]	Date Received:09.	27.18 15.0	5



TRC Solutions, Inc, Midland, TX

GJ West #108

Sample Id: Lab Sample Id	mple Id: 108 - SSW #2 o Sample Id: 600459-008			Soil ed: 09.25.18 09.30	Date Received:09.27.18 15.05			
Analytical Mer Tech:	thod: Chloride by EPA 3 RNL	00				Prep Method: % Moisture:	E300P	
Analyst: Seq Number:	RNL 3064981		Date Prep:	10.01.18 11.00		Basis:	Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis D	ate Flag	Dil

16887-00-6

<25.0 25.0

mg/kg

10.01.18 16.25

U

1



TRC Solutions, Inc, Midland, TX

GJ West #108

Parameter		Cas Number	Result	RL	Units	Analysis D	ate Fla	g Dil
Seq Number:	3064981							
Analyst:	RNL		Date Prep:	10.01.18 11.00		Basis:	Wet Weig	ght
Tech:	RNL					% Moisture:		
Analytical Me	ethod: Chloride by EPA 3	300				Prep Method:	E300P	
Lab Sample I	d: 600459-009		Date Collec	cted: 09.25.18 09.35				
Sample Id:	108 - SSW #5		Matrix:	Soil		Date Received	d:09.27.18	15.05

16887-00-6 312

25.0

10.01.18 16.38

mg/kg

1



TRC Solutions, Inc, Midland, TX

GJ West #108

Sample Id:	108 - ESW #2		Matrix:	Soil		Date Received	1:09.27.18 15.05	5
Lab Sample I	d: 600459-010		Date Collec	ted: 09.25.18 09.40				
Analytical M	ethod: Chloride by EPA	300				Prep Method:	E300P	
Tech:	RNL					% Moisture:		
Analyst:	RNL		Date Prep:	10.01.18 11.00		Basis:	Wet Weight	
Seq Number:	3064981							
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil

Chloride

16887-00-6 361

25.0

10.01.18 16.50 mg/kg

1



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

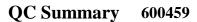
SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



ORATORIES



TRC Solutions, Inc

GJ West #108

Analytical Method:	Chloride by EPA 3	00						Pi	rep Metho	d: E30	0P	
Seq Number:	3064981			Matrix:	Solid				Date Pre	p: 10.0	1.18	
MB Sample Id:	7663353-1-BLK		LCS Sar	nple Id:	7663353-	1-BKS		LCS	D Sample	Id: 7663	3353-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1.18	250	257	103	251	100	90-110	2	20	mg/kg	10.01.18 14:09	

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3064981			Matrix:	Soil				Date Pre	ep: 10.0	1.18	
Parent Sample Id:	600459-001		MS Sar	nple Id:	600459-00	01 S		MSI	D Sample	Id: 6004	459-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	26.2	250	277	100	277	100	80-120	0	20	mg/kg	10.01.18 14:46	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Page 18 of 20

Ban Antonio, Texas (210-500-3334) Phoenix, Arizona (480-354) Wildland, Texas (322-704-5251) Muldland, Texas (322-704-5251) Project kine/kumber: Mumber of preserved bottlee Mumber of preserved bottlee <th colsp<="" th=""><th>San Artonio, Tease (2)-060-333) Prenix, Alcona (480-355-060) Midian, Tease (2)-050-333) Prenix, Alcona (480-355-060) Midian, Tease (3)-050-313 Array (480-355-060) Midian, Tease (3)-050-313 Array (480-355-060) Midian Propertity Array (480-355-060) Propertity Array (480-355-060) Propertity Array (480-355-060) Propertity Propertity Propertity Propertity Propertity Properting Propertity Propertity</th><th>0-600-3334) Pitenity, Afrona (880-355-000) 4-2531 </th><th>Sina Attorino, Tradis (210-00-333) Prodiv., Tradis (210-00-334) Prodiv., Tradis (210-00-334) Mildlant, Tradis (210-00-335) Mildlant, Tradis (210-00-334) Prodiv. Prodiv. Mildlant, Tradis (210-00-334) Prodiv. 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Received by OCD: 4/7/2023 9:34:25 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 09/27/2018 03:05:00 PM Temperature Measuring device used : IR-3 Work Order #: 600459 Comments Sample Receipt Checklist 4.4 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? N/A

#18 Water VOC samples have zero headspace?

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 09/27/2018

N/A

Checklist completed by: Brenda Ward Brenda Ward Checklist reviewed by: March Kelsev Brooks

Date: 09/27/2018

Analytical Report 618678

for TRC Solutions, Inc

Project Manager: Jared Stoffel

GJ West

30-MAR-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429), North Carolina (483) Xenco-Lakeland: Florida (E84098)





30-MAR-19

Project Manager: **Jared Stoffel TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 618678 GJ West Project Address: Loco Hills, NM

Jared Stoffel:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 618678. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 618678 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Muly K.

Mike Kimmel Client Services Manager

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Sample Cross Reference 618678



TRC Solutions, Inc, Midland, TX

GJ West

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1 @ 35'	S	03-21-19 10:00		618678-001
SB-1 @ 40'	S	03-21-19 10:10		618678-002
SB-2 @ 20'	S	03-21-19 13:50		618678-003
SB-2 @ 25'	S	03-21-19 14:00		618678-004
SB-2 @ 30'	S	03-21-19 14:10		618678-005
SB-2 @ 35'	S	03-21-19 14:20		618678-006

Version: 1.%

.



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: GJ West

Project ID: Work Order Number(s): 618678 Report Date: 30-MAR-19 Date Received: 03/22/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3083758 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 618678-003,618678-001.

Batch: LBA-3083865 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 618678-006.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Project Id:Contact:Jared StoffelProject Location:Loco Hills, NM



TRC Solutions, Inc, Midland, TX Project Name: GJ West



Date Received in Lab:Fri Mar-22-19 04:18 pmReport Date:30-MAR-19Project Manager:Mike Kimmel

	Lab Id:	618678-	001	618678-0	002	618678-0	003	618678-	004	618678-	005	618678-	006
	Field Id:	SB-1 @	35'	SB-1 @	40'	SB-2 @	20'	SB-2 @	25'	SB-2 @	30'	SB-2 @	35'
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOII	_	SOIL	
	Sampled:	Mar-21-19	10:00	Mar-21-19	10:10	Mar-21-19	13:50	Mar-21-19	14:00	Mar-21-19	14:10	Mar-21-19	14:20
BTEX by EPA 8021B	Extracted:	Mar-27-19	17:00	Mar-27-19	17:00	Mar-27-19	17:00	Mar-28-19	13:00	Mar-28-19	13:00	Mar-28-19	13:00
	Analyzed:	Mar-28-19	14:55	Mar-28-19	15:14	Mar-28-19	15:33	Mar-28-19	19:31	Mar-28-19	19:50	Mar-28-19	20:09
	Units/RL:	mg/kg	RL										
Benzene		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199
Toluene		0.00267	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199
Ethylbenzene		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199
m,p-Xylenes		0.00513	0.00403	< 0.00398	0.00398	< 0.00400	0.00400	< 0.00401	0.00401	< 0.00402	0.00402	< 0.00398	0.00398
o-Xylene		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199
Total Xylenes		0.00513	0.00202	< 0.00199	0.00199	< 0.002	0.002	< 0.002	0.002	< 0.00201	0.00201	< 0.00199	0.00199
Total BTEX		0.0078	0.00202	< 0.00199	0.00199	< 0.002	0.002	< 0.002	0.002	< 0.00201	0.00201	< 0.00199	0.00199
Chloride by EPA 300	Extracted:	Mar-25-19	15:20										
	Analyzed:	Mar-25-19	19:12	Mar-25-19	18:33	Mar-25-19	20:10	Mar-25-19	20:20	Mar-25-19	20:30	Mar-25-19	20:40
	Units/RL:	mg/kg	RL										
Chloride		205	5.01	103	4.97	337	4.99	142	4.98	50.3	4.95	61.6	5.00
TPH by SW8015 Mod	Extracted:	Mar-25-19	17:00										
	Analyzed:	Mar-26-19	03:47	Mar-26-19	04:06	Mar-26-19	04:25	Mar-26-19	04:44	Mar-26-19	05:03	Mar-26-19	05:22
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15	15	<15	15	<15	15	<15	15	<15	15	<15	15

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%

Mike Kimmel Client Services Manager

Final 1.000



Flagging Criteria



Page 96 of 116

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Project Name: GJ West

Work Order Lab Batch #: 3		Sample: 618678-001 / SMP	Batch	Project ID 1: 1 Matrix			
Units:	mg/kg	Date Analyzed: 03/26/19 03:47	SU	RROGATE R	ECOVERY S	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1-Chlorooctane			90.9	99.7	91	70-135	
o-Terphenyl			44.7	49.9	90	70-135	
Lab Batch #: 3	3083357	Sample: 618678-002 / SMP	Batch	n: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/26/19 04:06	SU	RROGATE R	ECOVERY S	STUDY	
		oy SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1-Chlorooctane		Anarytes	92.4	99.9	92	70-135	
o-Terphenyl			44.8	50.0	92	70-135	
Lab Batch #:	3083357	Sample: 618678-003 / SMP	Batch			70-135	
	mg/kg	Date Analyzed: 03/26/19 04:25		RROGATE R		TUDV	
			50	KRUGATE R	ECOVERY		1
		oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1-Chlorooctane			106	100	106	70-135	
o-Terphenyl			52.3	50.0	105	70-135	
Lab Batch #:		Sample: 618678-004 / SMP	Batch	n: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/26/19 04:44	SU	RROGATE R	ECOVERY S	STUDY	
		by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1.011		Analytes	01.0			70 105	
1-Chlorooctane			91.9	99.8	92	70-135	
o-Terphenyl Lab Batch #: 3	3083357	Sample: 618678-005 / SMP	45.7 Batch	49.9 n: 1 Matrix	92	70-135	
	mg/kg	Date Analyzed: 03/26/19 05:03					
	iiig/ Kg	Date Analyzeu: 05/20/19 05.05	SU	RROGATE R	ECOVERYS	STUDY	
		oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chlorooctane			91.6	99.7	92	70-135	
o-Terphenyl			45.2	49.9	91	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Version: 1.%



Project Name: GJ West

Work Ore Lab Batch #	ders : 618673 #: 3083357	8, Sample: 618678-006 / SMP	Batc	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 03/26/19 05:22	SU	RROGATE R	ECOVERY	STUDY	
	TPH b	oy SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chloroocta	ine		92.6	99.8	93	70-135	
o-Terphenyl			45.9	49.9	92	70-135	
Lab Batch #	#: 3083758	Sample: 618678-001 / SMP	Batc	h: 1 Matrix	: Soil	•	
Units:	mg/kg	Date Analyzed: 03/28/19 14:55	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorol	2017010	Analytes	0.0226	0.0200		70.120	
4-Bromofluo			0.0326	0.0300	109	70-130	**
4-Bromonuo		Sample: 618678-002 / SMP	0.0407	0.0300 h: 1 Matrix	136	70-130	**
	• • • • • • • •	•					
Units:	mg/kg	Date Analyzed: 03/28/19 15:14	SU	RROGATE R	ECOVERYS	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorol	benzene		0.0347	0.0300	116	70-130	
4-Bromofluo	robenzene		0.0370	0.0300	123	70-130	
Lab Batch #	#: 3083758	Sample: 618678-003 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/28/19 15:33	SU	RROGATE R	ECOVERYS	STUDY	
	ВТЕХ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorol	henzene		0.0338	0.0300	113	70-130	
4-Bromofluo			0.0338	0.0300	113	70-130	**
Lab Batch #		Sample: 618678-004 / SMP	Batc			10-150	
Units:	mg/kg	Date Analyzed: 03/28/19 19:31		RROGATE R			
C 111034		Zate Muly2eu, 05/20/17 17:51	SU	NAUGAIE K	LCOVERY		1
		K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1,4-Difluorol	benzene		0.0349	0.0300	116	70-130	
1 Promofluo	robenzene		0.0372	0.0300	124	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: GJ West

	ders : 61867 #: 3083865	8, Sample: 618678-005 / SMP	Batch	Project ID n: 1 Matrix			
Units:	mg/kg	Date Analyzed: 03/28/19 19:50	SU	RROGATE R	ECOVERY	STUDY	
	втех	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	benzene		0.0347	0.0300	116	70-130	
4-Bromoflue	orobenzene		0.0368	0.0300	123	70-130	
Lab Batch	#: 3083865	Sample: 618678-006 / SMP	Batch	n: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/28/19 20:09	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	benzene	Analytes	0.0343	0.0300	114	70-130	
4-Bromofluo			0.0343	0.0300	114	70-130	**
	#: 3083357	Sample: 7674328-1-BLK / B				/0-150	
Units:	mg/kg	Date Analyzed: 03/25/19 21:25		RROGATE R		STUDY	
	TPH	oy SW8015 Mod	Amount Found	True Amount	Recovery	Control Limits	Flags
		Analytes	[A]	[B]	%R [D]	%R	
1-Chlorooct	ane		106	100	106	70-135	
o-Terphenyl			54.0	50.0	108	70-135	
Lab Batch	#: 3083758	Sample: 7674521-1-BLK / B	LK Batch	n: 1 Matrix	: Solid	11	
Units:	mg/kg	Date Analyzed: 03/28/19 07:40	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	hanzana	Analytes	0.0252	0.0200		70.120	
4-Bromoflue			0.0352	0.0300	117	70-130	
	#: 3083865	Sample: 7674624-1-BLK / B	0.0339 LK Batch	0.0300 n: 1 Matrix	113	70-130	
Units:	mg/kg	Date Analyzed: 03/28/19 18:54					
omis.	m _β / κg	Date Milaryzeu, 05/20/17 10.54	SU.	RROGATE R	LCOVERY	STUDY	
		X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
145'0		Analytes	0.0210				
1,4-Difluoro			0.0348	0.0300	116	70-130	
4-Bromoflue	orobenzene		0.0327	0.0300	109	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Form 2 - Surrogate Recoveries

Project Name: GJ West

Lab Batch #: Units:	3083357 mg/kg	Sample: 7674328-1-BKS / Date Analyzed: 03/25/19 21:44			: Solid		
Units.	mg/kg	Date Analyzeu: 03/23/19 21.44	SU	RROGATE R	RECOVERY	STUDY	
	TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	e		127	100	127	70-135	
o-Terphenyl			56.7	50.0	113	70-135	
Lab Batch #:	3083758	Sample: 7674521-1-BKS /	BKS Batcl	h: 1 Matrix	: Solid		
U nits:	mg/kg	Date Analyzed: 03/28/19 06:07	SU	RROGATE R	RECOVERY	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobe	enzene		0.0333	0.0300	111	70-130	
4-Bromofluoro	benzene		0.0335	0.0300	112	70-130	
Lab Batch #:	3083865	Sample: 7674624-1-BKS /	BKS Batcl	h: 1 Matrix	: Solid	1	
Units:	mg/kg	Date Analyzed: 03/28/19 17:20	SU	RROGATE R	RECOVERY	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags

Analytes			[D]	
1,4-Difluorobenzene	0.0337	0.0300	112	70-130
4-Bromofluorobenzene	0.0324	0.0300	108	70-130
Lab Batch #: 3083357 Sample: 7674328-1-BSD	BSD Batcl	h: 1 Matrix:	Solid	

Units:

Units:

Date Analyzed: 03/25/19 22:03

mg/kg SURROGATE RECOVERY STUDY Amount True Control TPH by SW8015 Mod Found Amount Recovery Limits Flags [B] %R %R [A] [D] Analytes 1-Chlorooctane 124 100 124 70-135 o-Terphenyl 56.3 50.0 113 70-135 Lab Batch #: 3083758 Sample: 7674521-1-BSD / BSD Batch: 1 Matrix: Solid

Date Analyzed: 03/28/19 06:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0327	0.0300	109	70-130	
4-Bromofluorobenzene	0.0330	0.0300	110	70-130	

Γ

* Surrogate outside of Laboratory QC limits

mg/kg

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: GJ West

	r ders : 61867 #: 3083865	8, Sample: 7674624-1-BSD / E	BSD Batcl	Project ID			
U nits:	mg/kg	Date Analyzed: 03/28/19 17:39	SU	RROGATE R	ECOVERY	STUDY	
	BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0335	0.0300	112	70-130	
4-Bromoflu	orobenzene		0.0320	0.0300	107	70-130	
Lab Batch	#: 3083357	Sample: 618713-021 S / MS	Batcl	n: 1 Matrix	: Soil		
U nits:	mg/kg	Date Analyzed: 03/25/19 22:41	SU	RROGATE R	ECOVERY	STUDY	
	TPH	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 (11		Analytes		100		70.107	
1-Chlorooc			125	100	125	70-135	
o-Terpheny			54.0	50.0	108	70-135	
	#: 3083758	Sample: 619201-001 S / MS					
J nits:	mg/kg	Date Analyzed: 03/28/19 06:45	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0323	0.0300	108	70-130	
4-Bromoflu	orobenzene		0.0390	0.0300	130	70-130	
Lab Batch	#: 3083865	Sample: 619284-001 S / MS	Batcl	h: 1 Matrix	: Soil		
U nits:	mg/kg	Date Analyzed: 03/28/19 17:58	SU	RROGATE R	ECOVERY	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0339	0.0300	113	70-130	
	orobenzene		0.0339	0.0300	113	70-130	
Lab Batch	#: 3083357	Sample: 618713-021 SD / M	ISD Batch	h: 1 Matrix	: Soil		
J nits:	mg/kg	Date Analyzed: 03/25/19 23:00	SU	RROGATE R	ECOVERY S	STUDY	
	TPH	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	tane		115	100	115	70-135	
o-Terpheny	1		48.8	50.0	98	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: GJ West

	r ders : 618678 #: 3083758	8, Sample: 619201-001 SD / 1	MSD Batc	Project ID: h: 1 Matrix:			
Units:	mg/kg	Date Analyzed: 03/28/19 07:04	SU	RROGATE R	ECOVERY S	STUDY	
		K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0332	0.0300	111	70-130	
4-Bromoflu	orobenzene		0.0365	0.0300	122	70-130	
Lab Batch	#: 3083865	Sample: 619284-001 SD / N	MSD Bate	h: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 03/28/19 18:17	SU	RROGATE R	ECOVERYS	STUDY	
		X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1,4-Difluor	obenzene		0.0339	0.0300	113	70-130	
4-Bromoflu	orobenzene		0.0338	0.0300	113	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



BS / BSD Recoveries



•

Project Name: GJ West

Work Order #: 618678							Proj	ject ID:			
Analyst: SCM	D	ate Prepar	ed: 03/27/20	19			Date A	nalyzed:	03/28/2019		
Lab Batch ID: 3083758 Sample: 7674	521-1-BKS	Batch	#: 1					Matrix:	Solid		
Units: mg/kg		BLAN	K /BLANK	SPIKE /	BLANK	SPIKE DUP	LICATE	RECOV	ERY STU	DY	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	0.00100								70.100		
Benzene	<0.00199	0.0996	0.122	122	0.0998	0.119	119	2	70-130	35	
Toluene	< 0.00199	0.0996	0.120	120	0.0998	0.117	117	3	70-130	35	<u> </u>
Ethylbenzene	< 0.000563	0.0996	0.102	102	0.0998	0.100	100	2	70-130	35	
m,p-Xylenes	< 0.00101	0.199	0.198	99	0.200	0.196	98	1	70-130	35	
o-Xylene	< 0.00199	0.0996	0.101	101	0.0998	0.0997	100	1	70-130	35	
Analyst: ALJ	D	ate Prepar	ed: 03/28/20	19			Date A	nalyzed:	03/28/2019		
Lab Batch ID: 3083865 Sample: 7674	624-1-BKS	Batch	#: 1					Matrix:	Solid		
Units: mg/kg		BLAN	K /BLANK	SPIKE /	BLANK	SPIKE DUP	LICATE	RECOV	ERY STU	DY	
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00198	0.0992	0.122	123	0.0996	0.129	130	6	70-130	35	+
Toluene	<0.00198	0.0992	0.112	119	0.0996	0.125	127	7	70-130	35	-
Ethylbenzene	<0.000560	0.0992	0.101	102	0.0996	0.107	107	6	70-130	35	+
m,p-Xylenes	<0.00101	0.198	0.101	99	0.199	0.209	107	6	70-130	35	+
o-Xylene										35	<u> </u>
О-Лунне	< 0.00198	0.0992	0.0990	100	0.0996	0.104	104	5	70-130	55	

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes

Version: 1.%



BS / BSD Recoveries



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Project Name: GJ West

Work Orde	er #: 618678							Proj	ject ID:			
Analyst:	SPC	D	ate Prepar	red: 03/25/20	19			Date A	nalyzed: ()3/25/2019		
Lab Batch II	D: 3083312 Sample: 7674297	-1-BKS	Batc	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
	Chloride by EPA 300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Anal	lytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	:	<0.858	250	256	102	250	256	102	0	90-110	20	
Analyst:	ARM	D	ate Prepar	red: 03/25/20	19			Date A	nalyzed: ()3/25/2019		
Lab Batch II	D: 3083357 Sample: 7674328	-1-BKS	Batc	h #: 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	DY	
Anal	TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	•	0.00	1000		110		1100	110		70.105	20	
	e Range Hydrocarbons (GRO)	<8.00	1000	1120	112	1000	1100	110	2	70-135	20	
Diesel R	ange Organics (DRO)	<8.13	1000	1100	110	1000	1050	105	5	70-135	20	

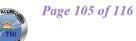
Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes

Version: 1.%



Form 3 - MS / MSD Recoveries

Project Name: GJ West



Work Order # :	618678						Project II):				
Lab Batch ID:	3083758	QC- Sample ID:	619201	-001 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	03/28/2019	Date Prepared:	03/27/2	019	Ar	alyst: S	SCM					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[A]	[B]	[C]	[D]	[E]	Kesun [F]	76K [G]	70	70K	70KI D	
Benzene		0.000481	0.0992	0.0942	94	0.100	0.114	114	19	70-130	35	
Toluene		0.00906	0.0992	0.102	94	0.100	0.116	107	13	70-130	35	
Ethylbenzene		0.0786	0.0992	0.0851	7	0.100	0.0959	17	12	70-130	35	X
m,p-Xylenes		0.0665	0.198	0.188	61	0.201	0.211	72	12	70-130	35	X
o-Xylene		0.0339	0.0992	0.0971	64	0.100	0.107	73	10	70-130	35	X
Lab Batch ID:	3083865	QC- Sample ID:	619284	-001 S	Ba	tch #:	1 Matrix	: Soil			<u>.</u>	
Date Analyzed:	03/28/2019	Date Prepared:	03/28/2	019	Ar	alyst: A	ALJ					
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	

0.102

0.0985

0.0829

0.163

0.0816

102

99

83

82

82

0.100

0.100

0.100

0.201

0.100

0.113

0.108

0.0914

0.179

0.0896

113

108

91

89

89

10

9

10

9

9

70-130

70-130

70-130

70-130

70-130

35 35

35

35

35

< 0.000383

< 0.000454

< 0.000563

< 0.00101

0.000349

0.0996

0.0996

0.0996

0.199

0.0996

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD = $200^{\circ}|(C-F)/(C+F)|$

Benzene

Toluene

Ethylbenzene

m,p-Xylenes

o-Xylene

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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Form 3 - MS / MSD Recoveries



Project Name: GJ West

Work Order # :	618678						Project II):				
Lab Batch ID:	3083312	QC- Sample ID:	618678	-002 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	03/25/2019	Date Prepared:	03/25/2	.019	An	alyst: S	SPC					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[A]	[B]	[C]	⁷ 0K [D]	E]	Kesult [F]	[G]	70	70 K	70KPD	
Chloride		103	249	364	105	249	364	105	0	90-110	20	
Lab Batch ID:	3083312	QC- Sample ID:	618757	-004 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	03/25/2019	Date Prepared:	03/25/2	019	An	alyst: S	SPC					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample %R	Spike	Duplicate Spiked Sample	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[A]	Added [B]	[C]	%K [D]	Added [E]	Result [F]	%K [G]	%	%K	%KPD	
Chloride		24.8	250	283	103	250	284	104	0	90-110	20	
Lab Batch ID:	3083357	QC- Sample ID:	618713	-021 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	03/25/2019	Date Prepared:	03/25/2	019	An	alyst: A	ARM					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY	STUDY		
	TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Gasoline Rang	e Hydrocarbons (GRO)	<8.00	1000	1160	116	1000	1020	102	13	70-135	20	
Diesel Range	Organics (DRO)	12.3	1000	1140	113	1000	1010	100	12	70-135	20	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Setting the Standard Since 1990						
Stafford, Texas(281-240-4200)		•		Odessa, Texas (432-563-1800)		Lakeland, Florida (863-646-8526)
Dallas, Texas (214-902-0300)				Norcross, Georgia (770-449-8800)		Tampa, Florida (813-620-2000)
Service Center - San Antonio, Texas (210-509-3334)		www.xenco.com		Xenco Quote #	Xenco Job #	810/01/01
				Analytical Information	tion -	Matrix Codes
Client / Reporting Information		Project Information				
Company Same / Branch;	Project Na	Project Name/Number:		<u>×)</u>		A≕ Air S = Soil/Sed/Solid
10 Rister Dr STE ISOE	Loco	LO HINS, NM		ВТ <u>Е</u>))		GW =Ground Water DW = Drinking Water P = Product
Stoff() Officso where we	Invoice To:			LIB TPH oride		SW = Surface water SL = Sludge
Project Contact Jarel Stoffel	PO Number:			802 1 ((h)		0 = Oil
Samplers's Name Jack 22 St OFFCI				46- 151 (WW= Waste Water
	Collection		Number of preserved bottles	00		
No. Field ID / Point of Collection	Sample Depth Date	Time Marrix 92 4Cl 4aOH/Zn Accetate	INO3 I2SO4 IaOH IaHSO4 MEOH IONE	SU SW E3 Hol		Field
1 58-1 @ 35		1 11-5 0001	×	× × × ×		
2 SB-1 @ 40'	3/21/m	010	×	× × ×		
2 E	3/21/17	1350 3011 1	×			
20	5/21/19	1400 5011	*	×××		
2	Hen/m		*	X X X		
<u> </u>	121/1	1420 5011 1	×	× × × ·		
α						
Q						
10						
Turnaround Time (Business days)		Data Deliverable Information	tion	Notes:		
Same Day TAT X 5 Day TAT		Level II Std QC	Level IV (Full Data Pkg /raw data)	raw data)		
Next Day EMERGENCY		Level III Std QC+ Forms	TRRP Level IV			
2 Day EMERGENCY Contract TAT		Level 3 (CLP Forms)	UST / RG -411			
3 Day EMERGENCY		TRRP Checklist				
TAT Starts Day received by Lab, if received by 3:00 pm	0 pm			FED-EX.	FED-EX / UPS: Tracking #	
Relinguished by Sampler.		Below EACH TIME SAMPLES	Relinquished By:	Date Time:	Received By:	
Refinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	le On Le	Cooler Temp
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affitiates, subcontractors and assigns XENCO's standard terms and conditions of service un	valid purchase order from	client company to XENCO Laboratories and its	affiliates, subcontractors and assi	gns XENCO's standard terms and cor		ess previously negiotiated under a fully executed client contract.

LABORATORIES

CHAIN OF CUSTODY Page Δ of Δ

Received by OCD: 4/7/2023 9:34:25 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 03/22/2019 04:18:00 PM Temperature Measuring device used : R8 Work Order #: 618678 Comments Sample Receipt Checklist #1 *Temperature of cooler(s)? -.1 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes Yes #16 All samples received within hold time? #17 Subcontract of sample(s)? N/A #18 Water VOC samples have zero headspace? N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 03/22/2019

Checklist reviewed by:

Mike Kimmel

Date: 03/27/2019

_aboratories
ance Report- Sample Log

COG- GJ West #108 (2RP-4351)

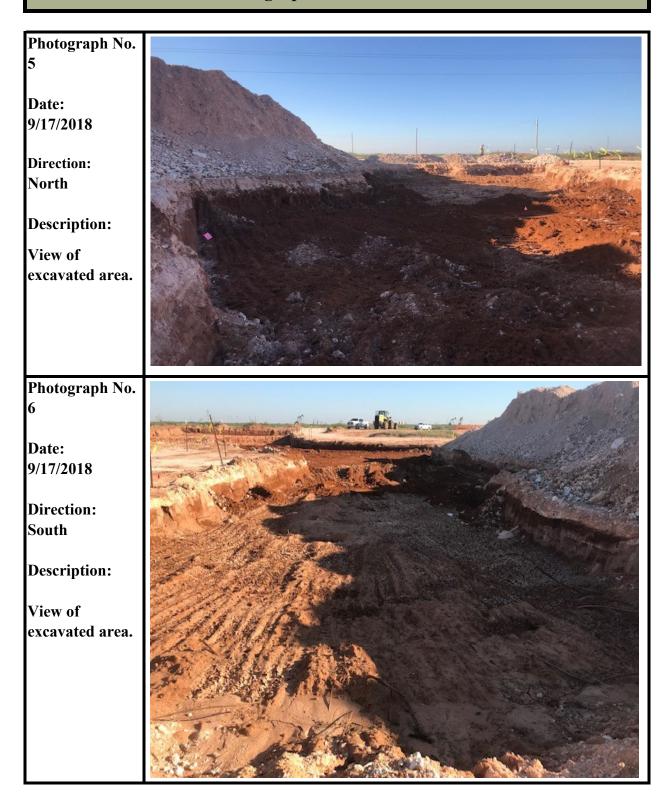
Date: 4/12/2019



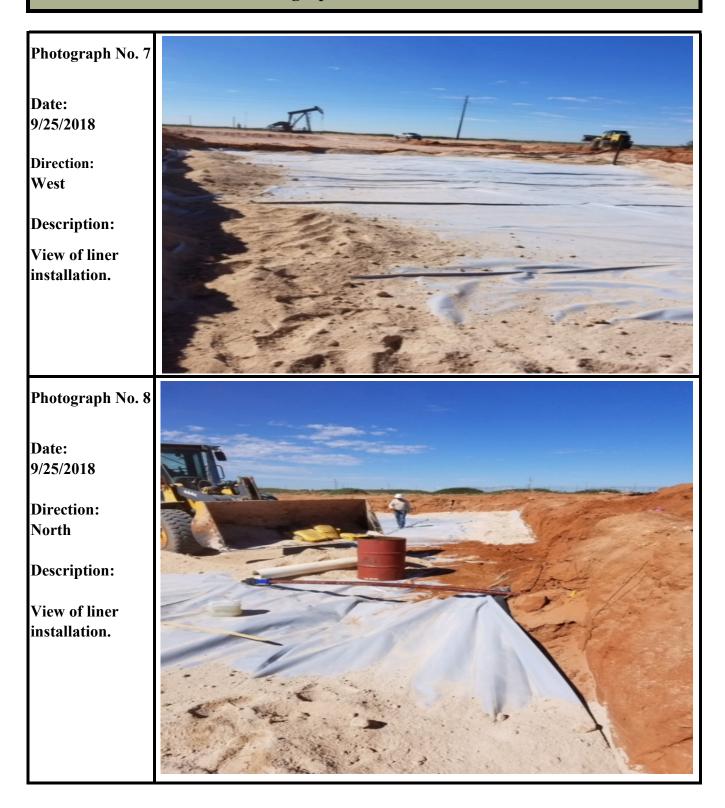
COG- GJ West #108 (2RP-4351) Date: 4/12/2019

Photographic Documentation Photograph No. 3 Date: 10/8/2018 Direction: Northeast **Description:** Liner installation. Photograph No. 4 Date: 3/10/2019 Direction: Northeast **Description:** View of backfilled area with boring conduit. 5. Tet

COG- GJ West #011 (2RP-4454) Date: 4/12/2019



COG- GJ West #011 (2RP-4454) Date: 4/12/2019



COG- GJ West #011 (2RP-4454) Date: 4/12/2019



District 1 1625 N. French Dr., Hobbs, NM 88240 District II

BII S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. S. Farres C.

NM OIL CONSERVATION

ARTESIA DISTRICT

ResourceAUG 17 2017

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	State of	New	Mexi	co
Energy	Minerals	and N	Jatural	R

Oil Conservation Division 1220 South St. Francis Dr. Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC. RECEIVED

1220 S. St. Francis Dr., Santa Fc, NM 87505	Santa Fe, NM 8750)5	
	otification and Cor	rrective Action	
NAB1723329504	OPERAT	OR Initial Report	Final Report
Name of Company: COG Operating LLC OGRII	D # 229137 Contact:	Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX	79701 Telephone No	o. <u>432-683-7443</u>	
Facility Name: G J West Coon Unit #108	Facility Type	:: Well	_

Tuenny Funie. O's west coop Chin #			
Surface Owner: State	Mineral Owner: State	API No. 30-015-20192	

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	28	175	29Ē	1980	North	660	West	Eddy

Latitude 32.8073502 Longitude -104.0862198

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 3.075 bbl.	Volume Recovered: 3.055 bbl.
Source of Release:	Date and Hour of Occurrence:	Date and Hour of Discovery:
Plugged Weli	August 7, 2017 12:00 pm	August 7, 2017 12:00 pm
Was Immediate Notice Given?	If YES, To Whom? Ms. Weaver - N!	10CD / Ms. Groves - SLO
By Whom? Rebecca Haskell	Date and Hour: August 9, 2017 8:4	2 am
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.
If a Watercourse was Impacted, Describe Fully.*	anna ann an ann an Aonaich an Aonaich an ann an Aonaichtean ann an Aonaichtean ann an Aonaichtean ann an Aonaic	
Describe Cause of Problem and Remedial Action Taken.*		
The release was from a well that was previously plugged in 2015. The rele control of the well. The well will be re-plugged. The release is currently u	ease was discovered by air patrol and index control if additional fluids are l	immediate actions were taken to regain ost subsequent to the filling of this Initial C-
141 a revised C-141 will be submitted with updated volumes.		bat abosequent to the mining of this minut e
Describe Area Affected and Cleanup Action Taken.*		
The release was on location. A liner was installed to capture produced was freestanding fluids. Approximately 1,008 cubic yards of impacted soil was the spill area sampled to delineate any possible impact from the release an any significant remediation activities. I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release n public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediation or the environment. In addition, NMOCD acceptance of a C-141 report d federal, state, or local laws and/or regulations.	s excavated and taken to a NMOCD ad we will present a remediation work he best of my knowledge and underst otifications and perform corrective a e NMOCD marked as "Final Report" e contamination that pose a threat to loes not relieve the operator of respon	approved disposal facility. Concho will have a plan to the NMOCD for approval prior to and that pursuant to NMOCD rules and ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health usibility for compliance with any other
Signature: Releya Hashell	<u>OIL CONSER</u>	VATION DIVISION
ι · · · · · · · · · · · · · · · · · · ·		
Printed Name: Rebecca Haskell	Approved by Environmental Special	ist: UMBED WIN
	Approved by Environmental Special Approval Date: 81817	ist: UMBED WM Expiration Date: N/A
Title: Senior HSE Coordinator	Approval Date: 8/18/17	Expiration Date: N/A
Title: Senior HSE Coordinator E-mail Address: rhaskell@concho.com Date: August 17, 2017 Phone: 432-683-7443	Approval Date: 8/18/17	Expiration Date: N/A

•

	NM OIL CONSERVATION ARTESIA DISTRICT					
<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 District 11	Sta Energy Mir	te of l	New Mex			Form C-141 Revised April 3, 2017
11 S. First St., Artesia, NM 88210 District III						to appropriate District Office in
000 Rio Brazos Road, Aztec, NM 87410			vation Div St. Franc	ומ	ECEIVED acc	ordance with 19.15.29 NMAC.
<u>Pistrict IV</u> 220 S. St. Francis Dr., Santa Fe, NM 87505			, NM 875			
F	Release Notific		· · · · · · · · · · · · · · · · · · ·		ction	
NABI129754125		-	OPERAT		_	Report 🔲 Final Repor
Name of Company: COG Operating, L			Contact:	and the second	ert McNeil	
Address: 600 West Illinois Avenue, N			Telephone 1		683-7443	· · · · · · · · · · · · · · · · · · ·
Facility Name: G J West Coop Unit #0			acility Typ	e: Injection We		
Surface Owner: State	Mineral O	wner: S	State		API No.	30-015-10827
	LOCA	TION	OF RE	LEASE		
	nge Feet from the 9E 1980		South Line	Feet from the	East/West Line	County
			North	330	West	Eddy
Lat	itude_32.8073502	Lon	gitude10	4.0872955	NAD83	
	NAT	URE	OF REL			
Type of Release: Produced Water			Volume of	Release: Unknow	vn Volume R am Octobe	ecovered: 8,740 bbls as of 6:00
Source of Release: Injection Well			Date and H	lour of Occurrence	e: Date and H	lour of Discovery:
Was Immediate Notice Given?			October 15	, 2017 10:20 am	October 1	5, 2017 10:20 am
	s 🔲 No 🔲 Not Re	quired	11 163, 10		er – NMOCD / Ms.	Groves - SLO
By Whom? Rebecca Haskell				our: October 15,		· · · · · · · · · · · · · · · · · · ·
Was a Watercourse Reached?	s 🛛 No		If YES, Vo	olume Impacting (he Watercourse.	
If a Watercourse was Impacted, Describe F	'uny.*				٥	
Describe Cause of Problem and Remedial	Action Taken.*					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
The release is from an injection well. Prod	uced water is coming u	n to the	surface. Imm	ediate actions we	re taken to regain co	ontrol of the well and are still
ongoing. The well will be plugged. A bern	1 was constructed aroun	id the wo	ell to capture			
Initial C-141 will be revised with a correct Describe Area Affected and Cleanup Action		ease is st	opped.	t alamanakati kutuk sama contaka		rana manana isi 7 maanaa waxaa maraaniyo kananana
•						
The release is on location. A berm was cor freestanding fluids. Concho will have the s	structed to capture the	produce	d water and ny possible i	imit impact to so	il. Vacuum trucks w	ere dispatched to remove all
to the NMOCD for approval prior to any s	ignificant remediation a	activities	i.			
I hereby certify that the information given regulations all operators are required to rep						
public health or the environment. The acc						
should their operations have failed to adeq	uately investigate and r	emediat	e contaminat	ion that pose a thi	eat to ground water	, surface water, human health
or the environment. In addition, NMOCD federal, state, or local laws and/or regulation		report d	oes not reliev	e the operator of	responsibility for co	ompliance with any other
rederat, state, or local laws and of regulation				OIL CON	SERVATION	DIVISION
Signature: Reberra Hast	all				<u> </u>	
Printed Name: Rebecca Haskel			Approved by	Environmental S	ipecialist: (`MA	ARXWe
Title: Senior HSE Co			Approval Da	te: 10/24/1	1 Expiration	bate: N/A
E-mail Address: rhaskell@concl			Conditions o		1 <u>1 – Friender</u> J	
Date: October 23, 2017 Phone: 432-683			Sl	e att	ached	Attached ALAS
			~	-	-	

* Attach Additional Sheets If Necessary

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	205118
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By		Condition Date
bhall	None	5/2/2023

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Action 205118

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