RP # 2R-422

REVIEWED
By Mike Buchanan at 11:11 am, Sep 18, 2023

Annual Groundwater Monitoring Report

Review of the Annual Groundwater Monitoring Report 2021 for the South Carlsbad Compressor Station:
Content Satisfactory
1. Continue to conduct the quarterly groundwater monitoring events as prescribed.
2. Submit the P & A Plan for MW-7 and MW-9, this plan will need approval from the director or state engineer's office. Please upload relative permits into the incident file for this completed work.
3. Submit the 2023 Annual Report by April 1, 2024.
4. Continue with PSH recovery and gauging.

August 26, 2021

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 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 does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Scott Drewry Title: Geologist

Signature: Scott Drewry Date: 9/8/2021

OCD Only

Received by: _____ Date: _____

Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS GP, LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

September 3, 2021

Submitted online via OCD E-Permitting:
https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/default.aspx

Mr. Bradford Billings
New Mexico Energy, Mineral & Natural Resources
Department of Oil Conservation
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Submittal: ***Annual Groundwater Monitoring Report*** (Ensolum, August 26, 2021)
RE: **Enterprise Field Services, LLC**
South Carlsbad Compressor Station – 2009 Condensate Release
South Roberson Rd. (CR 710), Carlsbad, Eddy Co., NM [32.313245° N, 104.136252° W]
OCD RP No.: 2R-422

Dear Mr. Billings:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, is submitting to the New Mexico Oil Conservation Department (OCD) one hard copy (and one electronic copy/USB) of the above-referenced document (Annual GWM Report) prepared by Ensolum, LLC (Ensolum) and dated August 26, 2021. The report is associated with a historical release of natural gas condensate (and/or produced liquids) that was discovered during the decommissioning of on-site aboveground storage tanks (ASTs) in November 2009 at the above-referenced location (Site). The activities detailed in the Subject document include all activities completed at the Site between January 1 and December 31, 2020 (the "reporting period"). The reported activities include semi-annual groundwater sampling activities and phase-separated hydrocarbon (PSH) recovery (intermittent corrective actions).

Based on the data contained in the Subject document, PSH has only been observed/measured in two of the monitor wells located at the Site (MW-1 and MW-2), with maximum thicknesses of 10.35 feet (MW-2) and 2.79 feet (MW-1) recorded during the reporting period. Additionally, dissolved-phase hydrocarbon (DPH), or constituents of concern (COC), concentrations continue to exceed to the applicable OCD closure criteria but are stable and/or declining.

Based on the results contained in the attached report, Enterprise plans to 1) continue PSH recovery and groundwater sampling at the Site on a quarterly basis utilizing low-flow sampling techniques, and 2) plug and abandoned monitoring wells MW-1 and MW-10 to prevent any further migration of impacts into the lower confining unit. These two wells will be reinstalled with nested monitoring wells to further evaluate the lower confining unit. Monitoring well MW-2 will continue to be utilized for PSH recovery. In addition, monitoring wells MW-7 and MW-9 will be plugged and abandoned based on historical concentrations ranging below laboratory SDLs and/or the New Mexico Water Quality Control Commission (NMWQCC) Standards.

After the re-installation of applicable nested monitoring wells, PSH recovery utilizing two (2) pneumatic recovery systems in each shallow nested well will be installed to remove free-standing product. Approximately ten (10) soil borings will be installed utilizing a Geoprobe direct-push drilling rig to further investigate the soil impacts observed during the previous investigations in the vicinity of nested well MW-11S/MW-11D. Subsequently, transmissivity and drawdown tests will be conducted on each nested well to evaluate light non-aqueous phase liquid (LNAPL) or PSH recharge and recovery.

In addition to the above, Enterprise will complete a *Stage 2 Abatement Plan* to include: 1) an evaluation of the cumulative laboratory analytical data to determine the description and justification for a preferred abatement option for the site; 2) a modification to the groundwater monitoring program; 3) site maintenance activities; 4) a proposed schedule for duration of abatement activities; and, 5) a public notification proposal designed to satisfy the requirement of Subsections A through C of 19.15.30.15 NMAC.

P.O. BOX 4324
HOUSTON, TEXAS 77210-4324
713.381.6500

1100 LOUISIANA STREET
HOUSTON, TEXAS 77002-5227
www.epplp.com

Enterprise appreciates the OCD's continued assistance and guidance in bringing closure to this Site and **respectfully requests a written response** regarding the attached report, including concurrence of the proposed corrective actions. Should you have any questions, comments or concerns, or need additional information, please feel free to contact me at 713-381-8780.

Sincerely,

Gregory E. Miller, P.G.
Supervisor, Environmental

Rodney M. Sartor, REM
Sr. Director, Environmental

ec: Ensolum – Liz Scaggs <LScaggs@ensolum.com>

ENSOLUM

ANNUAL GROUNDWATER MONITORING REPORT

Property:

South Carlsbad Compressor Station
Carlsbad, Eddy County, New Mexico
(OCD Permit No. 2R-422)

August 26, 2021
Ensolum Project No. 03B1226001

Prepared for:

Enterprise Field Services, LLC
PO Box 4324
Houston, TX 77210
Attention: Mr. Gregory E. Miller, P.G.

Prepared by:

Beaux Jennings
Senior Project Manager

Liz Scaggs, P.G.
Principal

TABLE OF CONTENTS

LIST OF APPENDICES

ENSOLUM

ANNUAL GROUNDWATER MONITORING REPORT

South Carlsbad Compressor Station
Carlsbad, Eddy County, New Mexico
32.313436° N, 104.136360° W
(OCD Permit No. 2R-422)

Ensolum Project No. 03B1226001

1.0 EXECUTIVE SUMMARY

Ensolum, LLC (Ensolum), has completed this Annual Groundwater Monitoring Report for the Enterprise Field Services, LLC (Enterprise) South Carlsbad Compressor Station located at the northwest corner of Carrasco Road and County Road (CR) 710, approximately 10 miles southeast of Carlsbad in Eddy County, New Mexico [SE1/4 of SE1/4 of S12, T23S, R27E], referred to hereinafter as the "Site" or "subject Site." The Site is currently utilized as a natural gas compressor station.

Specific details regarding groundwater monitoring are further explained in the following sections and should be read to fully comprehend the extent of the groundwater monitoring and results. In addition, findings and recommendations are included in this executive summary for convenience; however, the remaining text of the report and associated appendices should also be reviewed for a complete understanding of the report.

- In May and November 2020, 10 monitoring wells (MW-3 through MW-10, MW-11S and MW-11D) were sampled to evaluate chemicals of concern (COCs) in groundwater. Groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) / diesel range organics (DRO). It should be noted that the New Mexico Water Quality Control Commission (NMWQCC) has not established a protection limit for TPH GRO/DRO in groundwater.

- Ensolum compared the BTEX, and TPH GRO/DRO concentrations or laboratory sample detection limits (SDLs) associated with the groundwater samples collected from the monitoring wells MW-3 through MW-10, MW-11S and MW-11D to the NMWQCC Groundwater Quality Standards, referred to hereinafter as the "NMWQCC Standards".

- **During the May 2020 sampling event, the groundwater sample collected from monitoring well MW-11S exhibited a benzene concentration of 0.748 milligrams per liter (mg/L), which exceeds the NMWQCC Standard of 0.005 mg/L.**

- **During the November 2020 sampling event, the groundwater samples collected from monitoring wells MW-11S and MW-11D exhibited benzene concentrations of 1.26 mg/L and 0.0544 mg/L, respectively, which exceed the NMWQCC Standard of 0.005 mg/L.**

- **During the May 2020 and November 2020 sampling events, the groundwater samples collected from monitoring wells MW-3 through MW-10 exhibited benzene concentrations ranging from below laboratory SDLs up to 0.00132 mg/L, which are below the NMWQCC Standard of 0.005 mg/L.**

- **Based on the groundwater sampling results of the nested monitoring well (MW-11 (S/D), it appears that the lower confining unit has been impacted due to monitoring well MW-1 being screened across both groundwater-bearing units (GWBU's). Monitoring wells MW-1, MW-2 and MW-10 will be plugged and abandoned to prevent any further migration of impacts into the lower confining unit and reinstalled with nested monitoring wells to further evaluate the lower confining unit. In addition, monitoring wells MW-7 and MW-9 will be plugged and abandoned based on historical concentrations ranging below laboratory SDLs and/or the NMWQCC Standards.**

- **During the most recent gauging event (November 2020), the monitoring wells MW-1 and MW-2 contained 2.79 feet and 10.35 feet of phase separated hydrocarbons (PSH), respectively.**

- **After the installation of the nested monitoring wells, PSH recovery utilizing two (2) pneumatic recovery systems in each shallow nested well will be installed to remove free-standing product from each shallow nested well.**

Based on the sampling activities and laboratory analytical results, additional investigation and/or remediation appears warranted at this time.

2.0 INTRODUCTION

2.1 Site Description & Background

The Enterprise South Carlsbad Compressor Station is located at the northwest corner of Carrasco Road and CR 710, approximately 10 miles southeast of Carlsbad in Eddy County, New Mexico [SE1/4 of SE1/4 of S12, T23S, R27E].

The Site is currently an operational natural gas compressor station, which formerly included a tank battery on the south/southwestern portion of the property. The tank battery system included four (4) 300-barrel aboveground storage tanks (ASTs) within two (2) earthen berm containment systems. The ASTs contained natural gas condensate or produced liquids separated from the natural gas stream processed at the Site. During the decommissioning activities of the former tank battery, Enterprise personnel identified stained soils indicative of a historical leak.

Between September 16 and December 9, 2019, supplemental site investigation activities were conducted by Ensolum to investigate a potential confined GWBU at the Site. As part of the approved scope of work, one (1) nested monitoring well (MW-11 (S/D)) was advanced to a total depth of 40 feet below ground surface (bgs). The monitoring well was advanced utilizing a hand auger, hydro excavation, and a sonic drilling rig under the supervision of a New Mexico licensed water well driller. The soil samples were collected continuously from soil cuttings in one or two-foot intervals to the terminus depth of the soil boring. Due to the observed confined GWBU at the Site, the nested well was installed to confirm that there is no communication between the upper and lower GWBU and was advanced in the vicinity of the previously installed monitoring well (MW-1).

As proposed in the Stage 1 Abatement Plan dated June 1, 2020, groundwater sampling was conducted on a semi-annual basis in 2020. On May 19 and November 11, 2020, samples were collected from 10 monitoring wells (MW-3 through MW-10, MW-11S and MW-11D) to evaluate COCs in the on-Site groundwater.

Based on the groundwater sampling results of the nested monitoring well (MW-11 (S/D), it appears that the lower confining unit has been impacted due to monitoring well MW-1 being screened across both GWBU's. Monitoring well MW-1 and MW-2 will be plugged and abandoned to prevent any further migration of impacts into the lower confining unit and reinstalled with nested monitoring wells to further evaluate the lower confining unit.

A Topographic Map depicting the location of the Site is included as **Figure 1**, and a Site Vicinity Map is included as **Figure 2** in **Appendix A**.

2.2 Project Objective

The objective of the sampling activities was to evaluate the presence, magnitude, and extent of COCs in the groundwater and to compare the results to the NMWQCC Standards.

The objectives of Ensolum's scope of services were to:

1) Collect groundwater samples from the monitoring wells (MW-1 through MW-10, MW-11S and MW-11D) installed at the Site;
2) Summarize findings of the groundwater samples taken on-Site;
3) Describe the nature of the groundwater gradient on-site; and
4) Summarize the findings of the groundwater sampling events and recommendations concerning further action, if necessary.

2.3 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

2.4 Additional Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

2.5 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Ensolum's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

3.0 SITE INVESTIGATION

3.1 Groundwater Sampling Program

Ensolum's groundwater sampling program included the collection of 10 samples from the monitoring wells installed at the Site (MW-3 through MW-10, MW-11S and MW-11D). One (1) groundwater sample was collected from each monitoring well during each of the semi-annual sampling events. Monitoring wells that exhibited measurable PSH at the time of groundwater monitoring were not sampled. Groundwater samples were collected utilizing low-flow minimal drawdown techniques. The monitoring wells were purged until groundwater was consistent in color, clarity, pH, dissolved oxygen (DO), oxidation/reduction potential (ORP), temperature and conductivity. The groundwater sample analytical results are included in **Table 3** of **Appendix B**.

4.0 LABORATORY ANALYTICAL METHODS

4.1 Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells were analyzed for TPH-GRO/DRO utilizing Environmental Protection Agency (EPA) Method SW-846 #8015 and BTEX utilizing EPA Method SW-846 #8021B. Laboratory results are summarized in the **Table 3** of **Appendix B**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix C**.

4.2 Quality Assurance/Quality Control (QA/QC)

Sampling and analytical techniques have been identified in the text above and conform with the references identified in Subsection B of 20.6.2.3107 New Mexico Administrative Code (NMAC) and with 20.6.4.14 NMAC of the water quality standards for interstate and intrastate surface waters in New Mexico.

Groundwater samples were collected in laboratory prepared glassware and placed on ice in a cooler, which was secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Eurofins Xenco, LLC (Xenco) Laboratories in Midland, Texas for normal turn-around results.

Xenco performed the analyses of samples under an adequate and documented quality assurance program to meet the project and data quality objectives. The laboratory's quality assurance

program is generally consistent with the quality standards outlined in the National Environmental Laboratory Accreditation Program, as amended. In addition, the data generated by Xenco meets the interlaboratory performance standards for the selected analytical method and the performance standards are sufficient to meet the bias, precision, sensitivity, representativeness, and completeness, as specified in the project data quality objectives.

5.0 SITE CHARACTERIZATION

5.1 Geology & Hydrogeology

The Site is located on the western side of the Pecos River Valley. The valley contains the only occurrence of the Gatuna formation of Pleistocene and Tertiary age. In the area of Carlsbad and Loving, New Mexico, the Gatuna formation is as much as 100 meters above the Pecos River floodplain on the east side of the river and only about 30 meters on the west side. Its base is on Permian or Triassic rocks when exposed, but for the most part is buried by floodplain, terrace, caliche or aeolian deposits (Kelley, 1980). In general, the Gatuna formation consists of moderate reddish-orange, friable sandstone, siltstone, and conglomerate, but may locally include gypsum, gray shale, and claystone.

The Gutuna formation may be up to 100 feet thick locally (Vine, 1963). The overburden of the formation at the Site appears to be floodplain deposits ranging in thickness up to eight (8) feet thick. The regional groundwater gradient in the area is to the east toward the Pecos River. Based on soil borings and monitoring wells installed at the Site, it is apparent that the Gatuna formation is saturated and appears to be unconfined. However, recent data suggests that confining or semi confining conditions may also be present. The local hydraulic gradient appears to be dependent on local precipitation events controlling the hydraulic gradient at the site. The depth to groundwater ranges from approximately six (6) to nine (9) feet below ground surface (bgs) at an approximate elevation of 3,057 feet above mean sea level (AMSL).

6.0 DATA EVALUATION

6.1 Monitoring Well Gauging

The on-Site monitoring wells were surveyed in for top-of-casing (TOC) above mean sea level (AMSL) elevations. Groundwater measurements were collected utilizing a water level meter and/or interface probe capable of detecting the presence of water and/or PSH up to an accuracy of 0.01 feet. Groundwater measurements were collected during gauging events performed on May 18 and November 10, 2020. Based on the groundwater elevations associated with each of the on-site monitoring wells, groundwater generally flows to the east/northeast at an average hydraulic gradient of 0.012 ft/ft.

PSH was observed in monitoring wells MW-1 and MW-2 during the most recent gauging event, November 2020, at thicknesses of 2.79 feet and 10.35 feet, respectively. Groundwater/PSH measurements collected during the gauging events are presented with TOC elevations, ground surface elevations, and corrected groundwater elevations in **Table 4** of **Appendix B.** Groundwater gradient maps for the gauging events are included as **Figure 4A** and **Figure 4B** of **Appendix A.**

6.2 Monitoring Well Groundwater Samples

Total Petroleum Hydrocarbons

During each of the sampling events, the groundwater samples collected from monitoring wells MW-3 through MW-9 and MW-11D did not exhibit TPH GRO/DRO concentrations above the laboratory SDLs.

Based on the laboratory analytical results, the groundwater samples collected from monitoring wells MW-10 and MW-11S exhibited TPH GRO/DRO concentrations ranging from below the laboratory SDLs up to 6.28 mg/L.

The NMWQCC has not established a protection limit for TPH GRO/DRO in groundwater. However, these compounds can be evaluated to assess the presence of dissolved phase hydrocarbons in groundwater.

Benzene, Toluene, Ethylbenzene and Xylenes

During each of the sampling events, the groundwater samples collected from monitoring wells MW-3 through MW-10 exhibited BTEX concentrations ranging from below laboratory SDLs up to 0.00132 mg/L, which are below the NMWQCC Standard of 0.005 mg/L.

During the most recent sampling event (November 2020), the groundwater samples collected from monitoring wells MW-11S and MW-11D exhibited benzene concentrations of 1.26 mg/L and 0.0544 mg/L, respectively, which exceed the NMWQCC Standard of 0.005 mg/L.

During the most recent gauging event (November 2020), monitoring wells MW-1 and MW-2 contained 2.79 feet and 10.35 feet of PSH, respectively.

The next Site-wide groundwater gauging and sampling event is scheduled for May 2021.

The laboratory analytical results for groundwater are summarized in **Table 3** of **Appendix B**. Groundwater Gradient Maps and COC Concentration Maps for each of the sampling events are included in **Appendix A** as **Figures 4A** and **4B** and **Figures 5A** and **5B,** respectively.

7.0 FINDINGS AND RECOMMENDATIONS

Ensolum has completed this Annual Groundwater Monitoring Report for the South Carlsbad Compressor Station, located at the northwest corner of Carrasco Road and CR 710, approximately 10 miles southeast of Carlsbad in Eddy County, New Mexico. The objective of the groundwater sample collection was to further evaluate the presence, magnitude, and extent of BTEX and TPH-GRO/DRO in on-site groundwater as a result of historical releases.

- The objective of the groundwater sampling activities completed at the Site were to evaluate the presence, magnitude, and extent of COCs in the on-Site groundwater to the NMWQCC Standards.
- **During the May 2020 sampling event, the groundwater sample collected from MW-11S exhibited a benzene concentration of 0.748 mg/L, which exceeds the NMWQCC Standard of 0.005 mg/L.**

- **During the November 2020 sampling event, the groundwater samples collected from MW-11S and MW-11D exhibited benzene concentrations of 1.26 mg/L and 0.0544 mg/L, respectively, which exceed the NMWQCC Standard of 0.005 mg/L.**

- **During the May 2020 and November 2020 sampling events, the groundwater samples collected from monitoring wells MW-3 through MW-10 exhibited benzene concentrations ranging from below laboratory SDLs up to 0.00132 mg/L, which are below the NMWQCC Standard of 0.005 mg/L.**

- **Based on the groundwater sampling results of the nested monitoring well (MW-11 (S/D), it appears that the lower confining unit has been impacted due to monitoring well MW-1 being screened across both GWBU's. Monitoring wells MW-1, MW-2 and MW-10 will be plugged and abandoned to prevent any further migration of impacts into the lower confining unit and reinstalled with nested monitoring wells to further evaluate the lower confining unit. In addition, monitoring wells MW-7 and MW-9 will be plugged and abandoned based on historical concentrations ranging below laboratory SDLs and/or the NMWQCC Standards.**

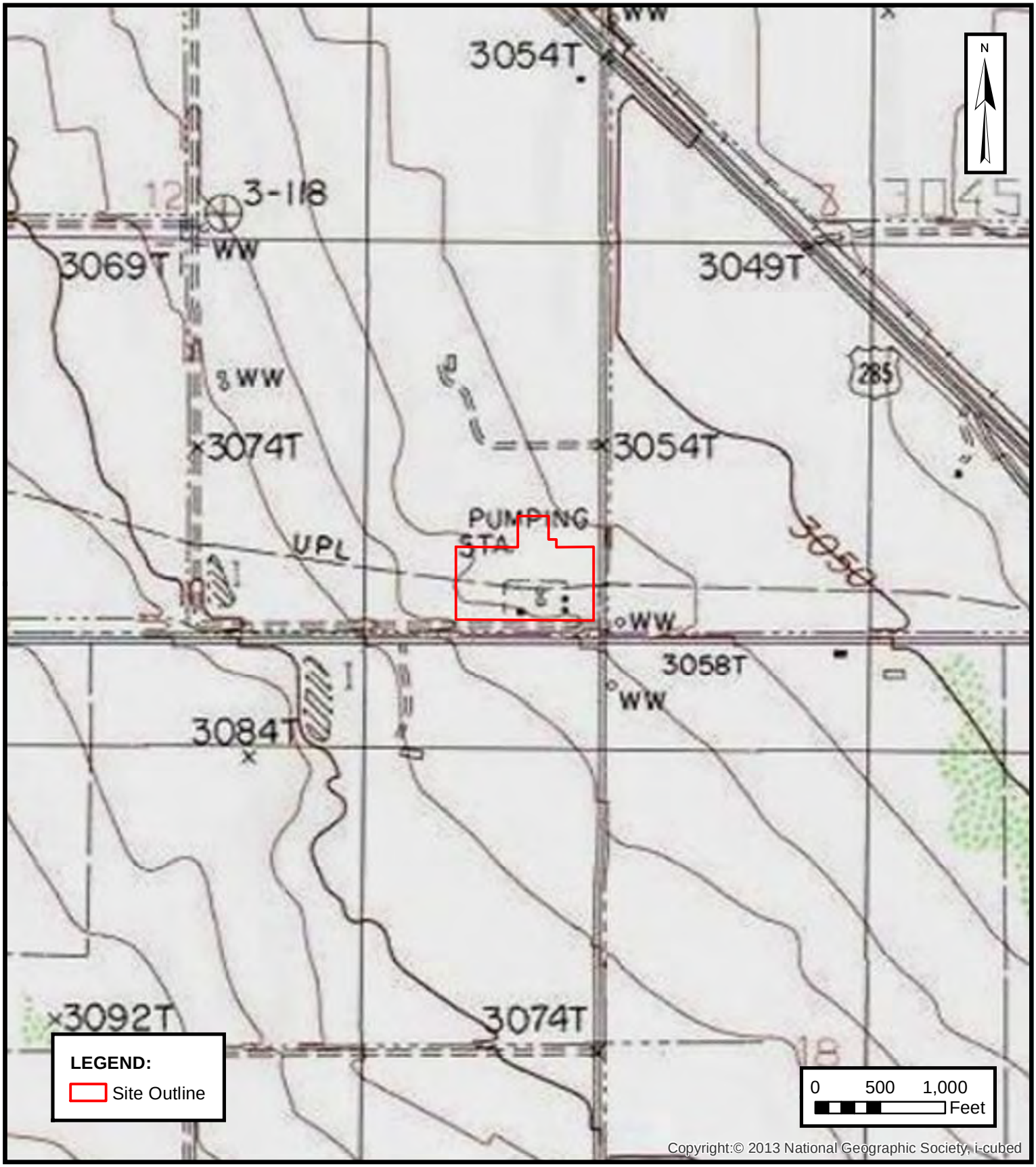
- **During the most recent gauging event (November 2020), the monitoring wells MW-1 and MW-2 contained 2.79 feet and 10.35 feet of PSH, respectively.**

- **After the installation of the nested monitoring wells, PSH recovery utilizing two (2) pneumatic recovery systems in each shallow nested well will be installed to remove free-standing product from each shallow nested well.**

Based on the on-Site assessment activities and laboratory analytical results, additional investigation and/or remediation appears warranted at this time.

APPENDIX A

Figures



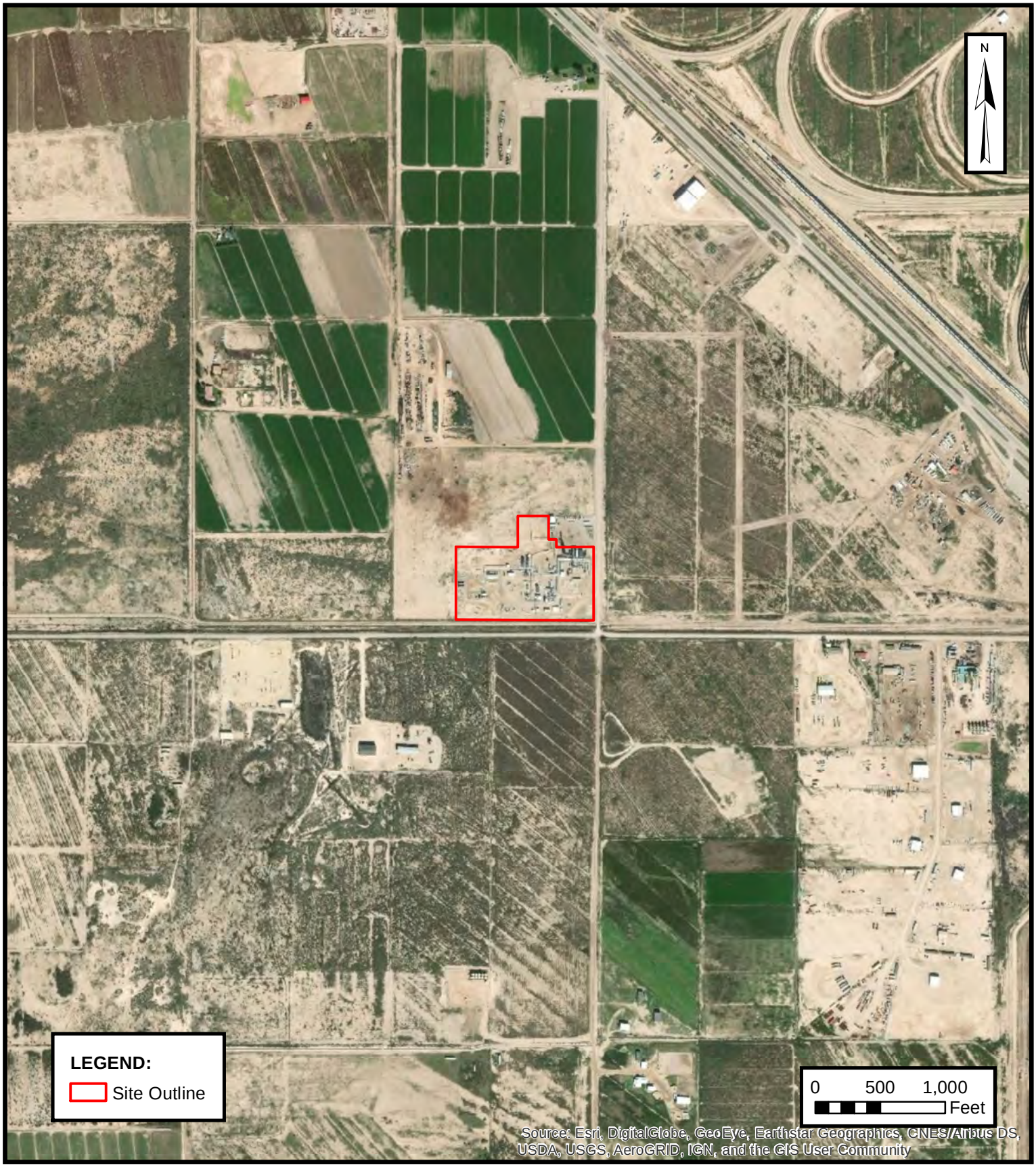
ENSOLUM
Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
SOUTH CARLSBAD COMPRESSOR STATION
Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

PROJECT NUMBER: 03B1226001

FIGURE
1



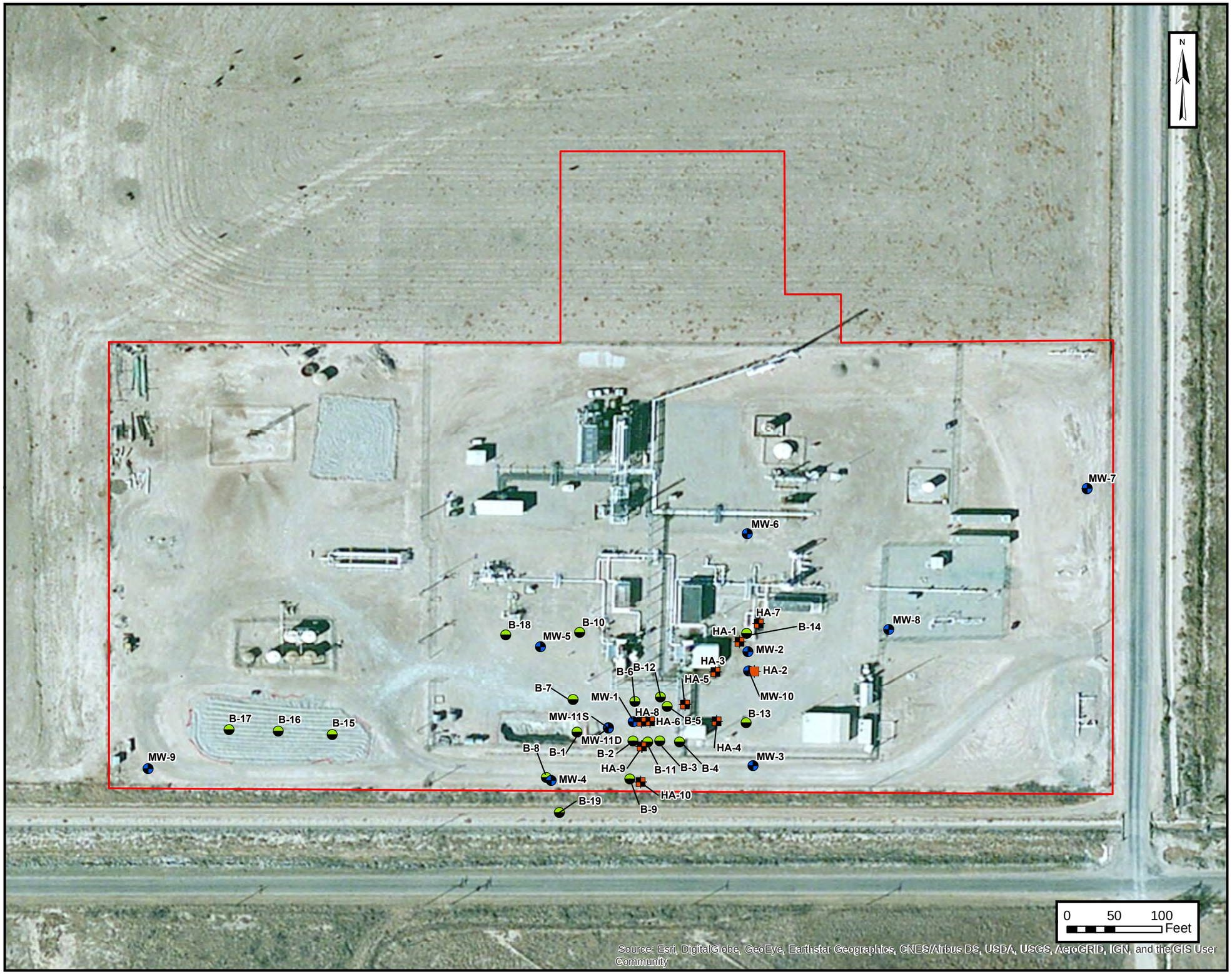
ENSOLUM
Environmental & Hydrogeologic Consultants

SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
SOUTH CARLSBAD COMPRESSOR STATION
Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

PROJECT NUMBER: 03B1226001

FIGURE
2



LEGEND:

- Site Outline
- Soil Boring Location
- Hand Auger Location
- Monitoring Well Location

ENSOLUM

Environmental & Hydrogeologic Consultants

SITE MAP

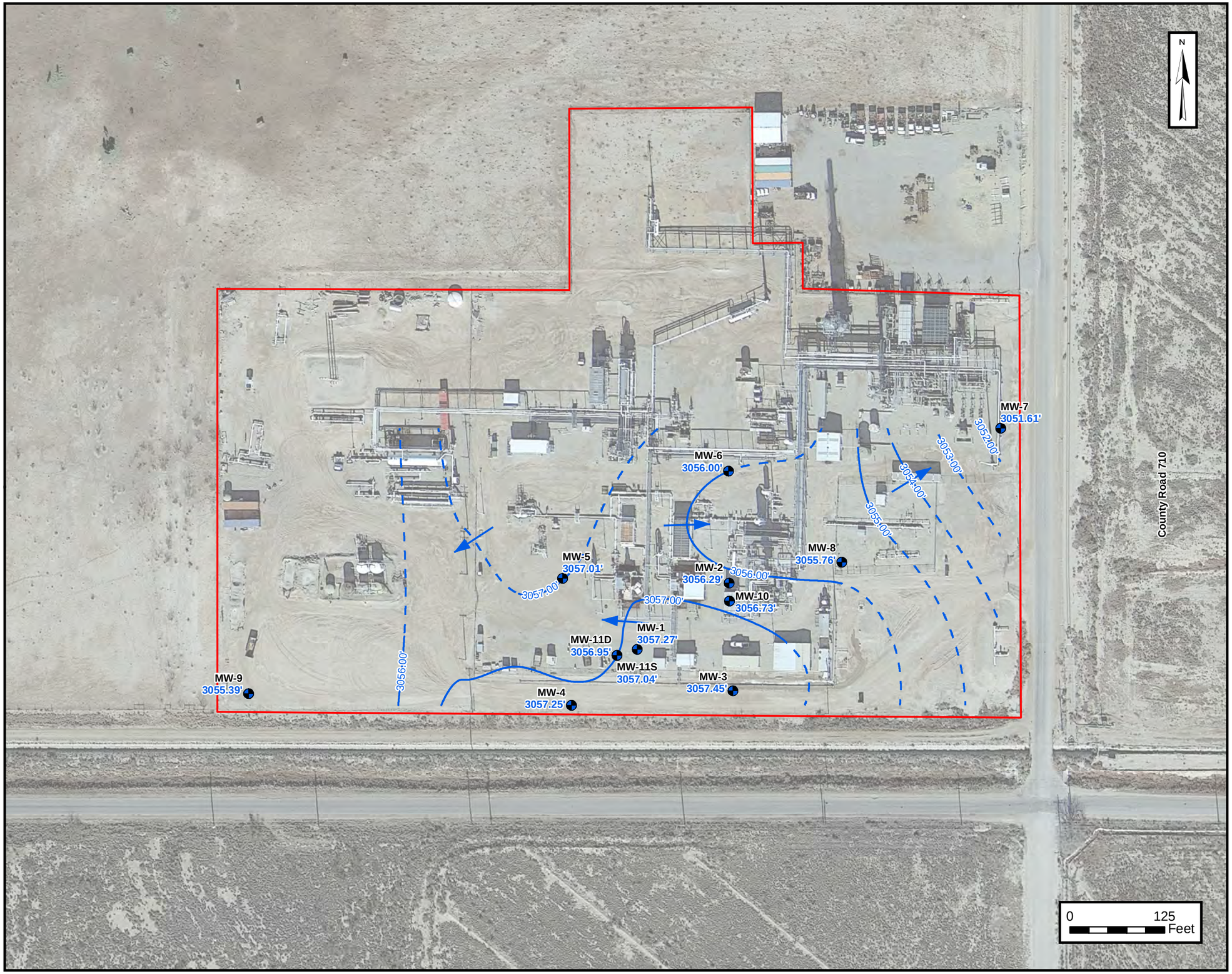
ENTERPRISE FIELD SERVICES, LLC
SOUTH CARLSBAD COMPRESSOR STATION

Carrasco Road and CR 710, Eddy County, New Mexico
32313436° N, 104.136360° W

FIGURE

3

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour Line (Interval = 1.0')
- Inferred Groundwater Elevation Contour Line
- Groundwater Flow Direction

NOTE:
All groundwater elevations are shown in **blue** and listed in feet.

ENSOLUM
Environmental & Hydrogeologic Consultants

GROUNDWATER GRADIENT MAP (MAY 2020)

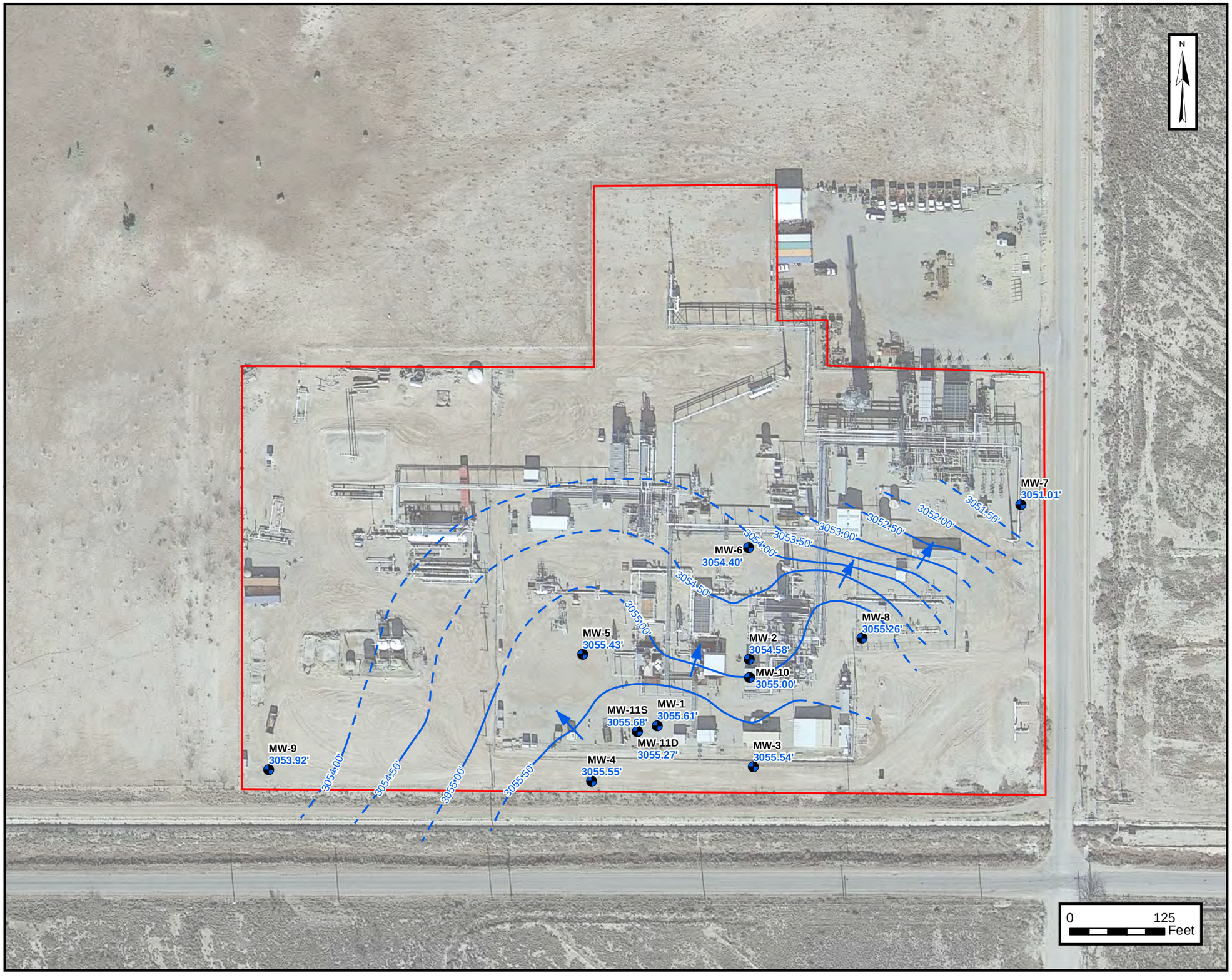
ENTERPRISE FIELD SERVICES, LLC
SOUTH CARLSBAD COMPRESSOR STATION
OCD PERMIT NO.: 2R-422

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE

4A

Ensolum Project No : 03B1226001



LEGEND:

- Site Outline
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 0.50')
- Inferred Groundwater Elevation Contour
- Inferred Groundwater FLow Direction

NOTE:
All groundwater elevations are shown in **blue** and listed in feet.

ENSOLUM
Environmental & Hydrogeologic Consultants

GROUNDWATER GRADIENT MAP (NOVEMBER 2020)

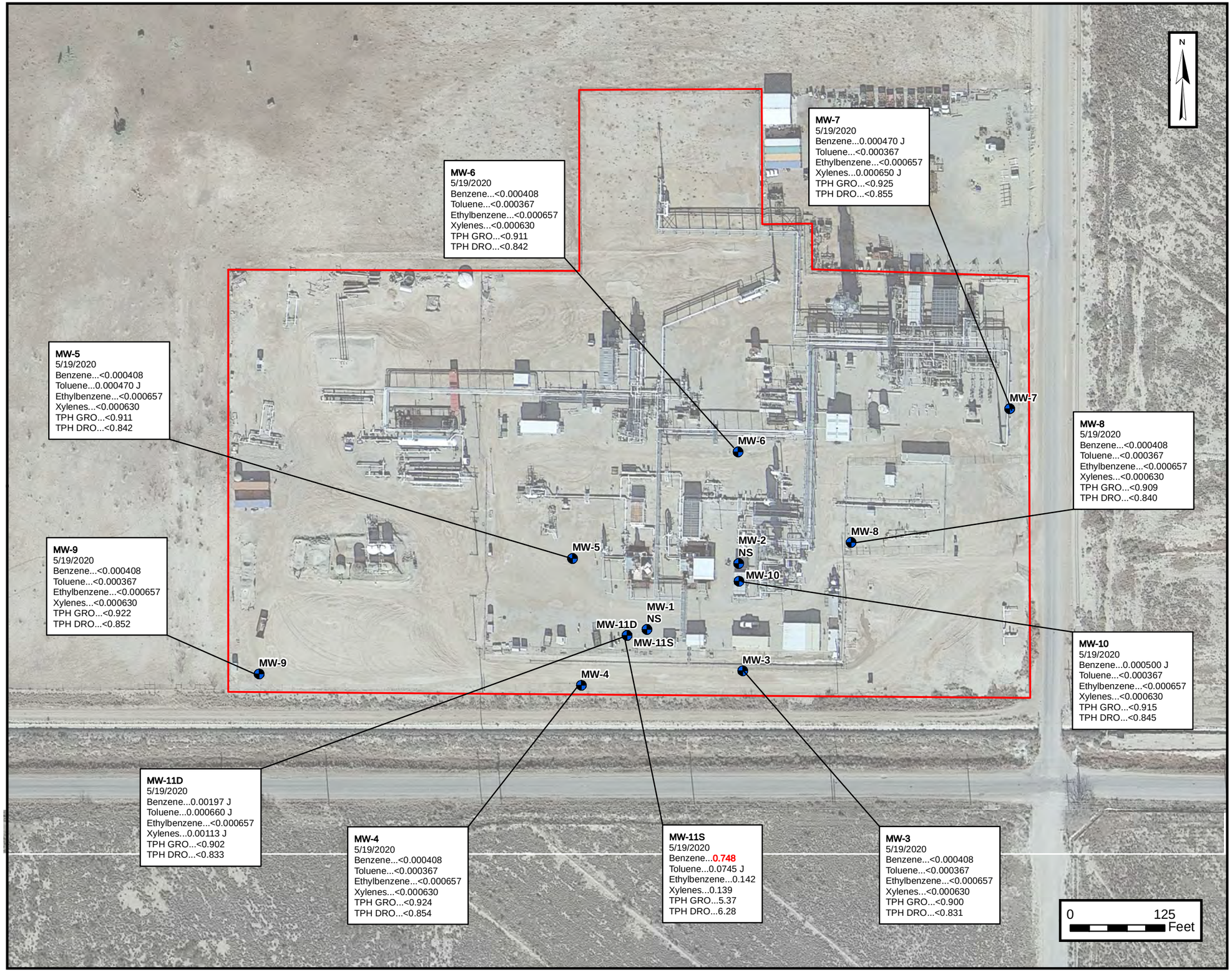
ENTERPRISE FIELD SERVICES, LLC
SOUTH CARLSBAD COMPRESSOR STATION
OCD PERMIT NO.: 2R-422

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE

4B

Ensolum Project No : 03B1226001



LEGEND:

Site Outline

Monitoring Well Location

NOTE:
NS - Not sampled due presence of PSH.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in **Red** exceed New MexicoWater Quality Control Commission Groundwater Quality Standards.

ENSOLUM
Environmental & Hydrogeologic Consultants

COC CONCENTRATION MAP (MAY 2020)

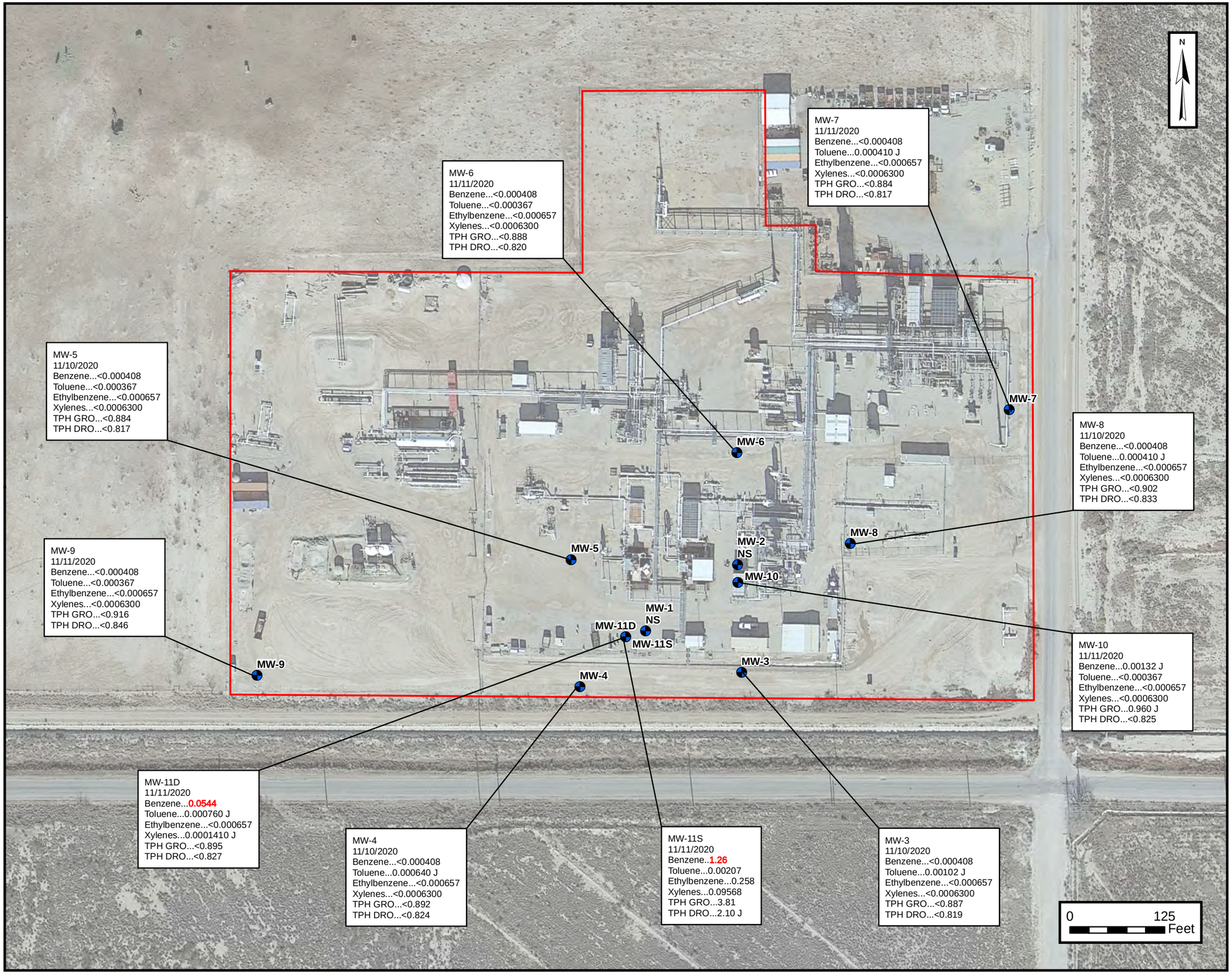
ENTERPRISE FIELD SERVICES, LLC
SOUTH CARLSBAD COMPRESSOR STATION
OCD PERMIT NO.: 2R-422

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE

5A

Ensolum Project No : 03B1226001



LEGEND:

Site Outline

Monitoring Well Location

NOTE:
NS - Not sampled due presence of PSH.

J - Indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

All Concentration are listed in mg/L.

Concentrations in **Red** exceed New Mexico Water Quality Control Commission Groundwater Quality Standards.

ENSOLUM
Environmental & Hydrogeologic Consultants

COC CONCENTRATION MAP (NOVEMBER 2020)

ENTERPRISE FIELD SERVICES, LLC
SOUTH CARLSBAD COMPRESSOR STATION
OCD PERMIT NO.: 2R-422

Carrasco Road and CR 710, Eddy County, New Mexico
32.313436° N, 104.136360° W

FIGURE

5B

Ensolum Project No : 03B1226001

APPENDIX B

Tables

TABLE 1
SOIL ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Sample Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			600	10	NE	NE	NE	50	NE	NE	NE	100
SOIL BORING ANALYTICAL RESULTS												
B-1 (7-8)	11/5/2009	7 to 8	NA	**0.34**	**7.1**	**1.5**	**31**	**39.94**	**270**	**710**	NA	**980**
B-1 (19-20)	11/5/2009	19 to 20	NA	<0.0021	<0.0022	<0.0024	**0.036**	**0.0427**	**0.15**	**24**	NA	**24.15**
B-2	2/25/2011	Soil Samples Not Collected										
B-3 (6-7)	2/25/2011	6 to 7	NA	**0.0091**	**56.8**	**13.1**	**224**	**293.9**	**2,070**	**4,830**	NA	**6,900**
B-4 (3-4)	2/25/2011	3 to 4	NA	<0.00131	<0.00131	<0.00131	<0.00394	<0.00787	<0.0657	**4.17**	NA	**4.2357**
B-4 (5-6)	2/25/2011	5 to 6	NA	<0.00133	**0.00316**	<0.00133	**0.0198**	**0.02562**	**3.75**	**368**	NA	**371.75**
B-5 (4-5)	2/25/2011	4 to 5	NA	<0.00125	**7.62**	**0.00991**	**29.4**	**37.03116**	**1,540**	**2,520**	NA	**4,060**
B-6 (4-5)	2/25/2011	4 to 5	NA	<0.00122	**0.00847**	<0.00122	**0.0147**	**0.02561**	**1.12**	**25.5**	NA	**26.62**
B-6 (7-8)	2/25/2011	7 to 8	NA	<0.00128	**7.17**	**4.15**	**46.3**	**57.621**	**1,930**	**2,210**	NA	**4,140**
B-7 (2-3)	2/25/2011	2 to 3	NA	<0.00122	<0.00122	<0.00122	<0.00366	<0.04026	<0.0612	**7.98**	NA	**<8.0412**
B-7 (5-6)	2/25/2011	5 to 6	NA	<0.0012	**2.23**	**2.28**	**10.5**	**15.0112**	**960**	**1,480**	NA	**2,440**
B-8 (4-5)	2/25/2011	4 to 5	NA	<0.00135	**6.93**	**2.93**	**17.8**	**27.66135**	**2,100**	**1,920**	NA	**4,020**
B-8 (7-8)	2/25/2011	7 to 8	NA	<0.00119	<0.00119	<0.00119	<0.00358	<0.00715	<0.0597	**199**	NA	**199.1**
B-9 (4-5)	2/25/2011	4 to 5	NA	<0.0012	**0.00416**	<0.0012	<0.00359	**0.01015**	<0.0598	**4.5**	NA	**4.560**
B-9 (7-8)	2/25/2011	7 to 8	NA	<0.00186	<0.00186	<0.00186	<0.00558	<0.01116	<0.0929	**8.98**	NA	**9.073**

TABLE 1
SOIL ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Sample Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			600	10	NE	NE	NE	50	NE	NE	NE	100
B-10 (8-9)	1/14/2014	8 to 9	NA	**0.0076 (j)**	**0.029 (j)**	<0.0033	**0.15**	**0.1899**	**33**	**59**	NA	**92**
B-10 (14-15)	1/14/2014	14 to 15	NA	<0.0030	**0.026 (j)**	<0.0034	**0.037 (j)**	**0.0694**	**6.6**	<3.9	NA	**10.5**
B-10 (24-25)	1/14/2014	24 to 25	NA	<0.0029	**0.025 (j)**	<0.0033	<0.011	**0.0422**	<2.8	<3.9	NA	<6.7
B-11 (10-11)	1/15/2014	10 to 11	NA	**0.14 (j)**	**1.3**	**1.3**	**11**	**13.74**	**380**	**1,000**	NA	**1,380**
B-11 (20-21)	1/15/2014	20 to 21	NA	**0.021 (j)**	**0.088**	<0.0032	**1.3**	**1.4122**	**110**	**58**	NA	**168**
B-11 (29-30)	1/15/2014	29 to 30	NA	**0.0071 (j)**	**0.045 (j)**	**0.043 (j)**	**0.18**	**0.2751**	**18**	**8.3**	NA	**26.3**
B-12 (13-14)	1/15/2014	13 to 14	NA	**0.49 (j)**	<0.060	**2.4**	**2.2**	**5.15**	**350**	**820**	NA	**1,170**
B-12 (15-16)	1/15/2014	15 to 16	NA	**0.096**	**0.052**	**0.91**	**0.96**	**2.018**	**180**	**45**	NA	**225**
B-12 (24-25)	1/15/2014	24 to 25	NA	**0.01 (j)**	**0.016 (j)**	**0.047 (j)**	**0.087 (j)**	**0.16**	**18**	**4.2**	NA	**22.2**
B-13 (14-15)	1/14/2014	14 to 15	NA	<0.0030	**0.025 (j)**	<0.0034	<0.011	**0.0424**	<3.0	<3.9	NA	<6.9
B-13 (24-25)	1/14/2014	24 to 25	NA	<0.0030	**0.021 (j)**	<0.0034	<0.011	**0.0384**	<2.9	<3.9	NA	<6.8
B-14 (14-15)	1/15/2014	14 to 15	NA	<0.0029	**0.024 (j)**	<0.0033	<0.011	**0.0313**	<2.9	**29**	NA	**31.9**
B-14 (24-25)	1/15/2014	24 to 25	NA	<0.0031	**0.024 (j)**	<0.0035	<0.011	**0.0416**	<3.0	<3.9	NA	<6.9
B-15 (3-4)	1/14/2014	3 to 4	**8.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-16 (3-4)	1/14/2014	3 to 4	**380**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-17 (3-4)	1/14/2014	3 to 4	**7.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-18 (12-13)	1/15/2014	12 to 13	NA	<0.0029	**0.025 (j)**	<0.0033	<0.011	**0.0323**	<2.9	<4.0	NA	<6.9
B-18 (24-25)	1/15/2014	24 to 25	NA	<0.0029	**0.023 (j)**	<0.0033	<0.011	**0.0402**	<2.9	<3.9	NA	<6.8
B-19 (24-26)	9/16/2015	24 to 26	NA	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	<15.0	<15.0	NA	<15.0
B-19 (30-32)	9/16/2015	30 to 32	NA	<0.001000	<0.00200	<0.001000	<0.001000	<0.001000	<15.0	<15.0	NA	<15.0

TABLE 1
SOIL ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Sample Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			600	10	NE	NE	NE	50	NE	NE	NE	100
MONITORING WELL ANALYTICAL RESULTS												
MW-1	12/18/2014	12 to 14	NA	**0.27**	<0.25	**3.9**	**23**	**27.42**	**950**	**1,600**	NA	**2,550**
		30 to 32	NA	**0.087**	**0.054**	**1.6**	**8.9**	**10.64**	**440**	**470**	NA	**910**
MW-2	12/17/2014	16 to 18	NA	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	**2,400**	NA	**2,405**
		26 to 28	NA	<0.048	<0.048	<0.048	<0.097	<0.241	<4.8	**510**	NA	**514.8**
MW-3	12/17/2014	10 to 12	NA	<0.048	<0.048	<0.048	<0.096	<0.240	<4.8	<9.9	NA	<9.9
		26 to 28	NA	<0.047	<0.047	<0.047	<0.093	<0.234	<4.7	<9.9	NA	<9.9
MW-4	12/17/2014	7 to 9	NA	<0.048	<0.048	<0.048	<0.097	<0.241	**160**	**550**	NA	**710**
		23 to 25	NA	<0.048	<0.048	<0.048	<0.097	<0.241	<4.8	**13.0**	NA	**13.0**
MW-5	12/17/2014	7 to 8	NA	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	**39.0**	NA	**39.0**
		30 to 32	NA	<0.046	<0.046	<0.046	<0.093	<0.231	<4.6	**13.0**	NA	**17.6**
MW-6	9/15/2015	24 to 26	NA	<0.000996	<0.00199	<0.000996	<0.000996	<0.000996	<15.0	<15.0	NA	<15.0
		32 to 34	NA	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	<14.9	<14.9	NA	<14.9
MW-7	9/16/2015	20 to 22	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
		30 to 32	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
MW-8	9/16/2015	26 to 28	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<14.9	<14.9	NA	<14.9
		34 to 35	NA	<0.001010	<0.00201	<0.001010	<0.001010	<0.001010	<15.0	<15.0	NA	<15.0
MW-9	9/17/2015	22 to 24	NA	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	NA	<15.0
		34 to 35	NA	<0.001010	<0.00202	<0.001010	<0.001010	<0.001010	<15.0	<15.0	NA	<15.0
MW-10	9/16/2015	20 to 22	NA	<0.001010	<0.00202	<0.001010	<0.001010	<0.001010	<14.3	<14.3	NA	<14.3
		34 to 35	NA	<0.001000	<0.00200	<0.001000	<0.001000	<0.001000	<15.0	<15.0	NA	<15.0
MW-11S	11/12/2019	7-8	NA	**3.19**	**62.7**	**22.4**	**205**	**293**	**5,840**	**4,780**	**131**	**10,800**
		25-26	NA	**0.00371**	<0.00198	<0.00198	<0.00198	**0.00371**	<15.0	<15.0	<15.0	<15.0
MW-11D	11/12/2019	31	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0

TABLE 1
SOIL ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Sample Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			600	10	NE	NE	NE	50	NE	NE	NE	100
HAND AUGER ANALYTICAL RESULTS												
HA-1	04/09/2018	8-8.5	NA	< 0.00250	< 0.00250	< 0.00250	< 0.00250	< 0.00250	**30.1 (j)**	**8,280**	**4,930**	**13,200**
HA-1	04/09/2018	9.25-9.5	NA	< 0.00248	< 0.00248	< 0.00248	< 0.00248	< 0.00248	**29.9 (j)**	**6,960**	**5,840**	**12,800**
HA-2	04/10/2018	4-5	NA	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 9.95	< 9.95	< 9.95	< 9.95
HA-2	04/10/2018	5-5.5	NA	< 0.000497	< 0.000497	< 0.000497	< 0.000497	< 0.000497	< 9.95	< 9.95	< 9.95	< 9.95
HA-3	04/10/2018	4-5	NA	< 0.0500	< 0.0500	< 0.0500	**0.127**	**0.127**	**30.6 (j)**	**31,600**	**14,200**	**45,800**
HA-3	04/10/2018	5-5.25	NA	< 0.0125	**0.0518**	**0.0533**	**0.218**	**0.323**	**35.1 (j)**	**28,600**	**13,700**	**42,300**
HA-4	04/10/2018	1-2	NA	< 0.000501	< 0.000501	< 0.000501	< 0.000501	< 0.000501	< 9.92	**24.7 (j)**	< 9.92	**24.7 (j)**
HA-4	04/10/2018	6-6.5	NA	< 0.000502	< 0.000502	< 0.000502	< 0.000502	< 0.000502	< 10.0	**15.8 (j)**	< 10.0	**15.8 (j)**
HA-5	04/10/2018	5-6	NA	< 0.0125	< 0.0125	< 0.0125	< 0.0125	< 0.0125	**160**	**757**	**28.6 (j)**	**946**
HA-5	04/10/2018	6-7	NA	< 0.000501	< 0.000501	**0.00187**	< 0.000501	**0.00187**	**252**	**648**	**24.2 (j)**	**924**
HA-6	04/10/2018	6-6.25	NA	< 0.0500	< 0.0500	**0.508**	**0.498**	**1.01**	**843**	**935**	**37.9 (j)**	**1,820**
HA-6	04/10/2018	6.25-6.5	NA	< 0.0124	< 0.0124	**0.764**	**0.989**	**1.75**	**829**	**1,240**	**45.2 (j)**	**2,110**
HA-7	04/10/2018	5-6	NA	< 0.000501	< 0.000501	< 0.000501	< 0.000501	< 0.000501	< 9.90	< 9.90	< 9.90	< 9.90
HA-7	04/10/2018	7-8	NA	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 9.90	< 9.90	< 9.90	< 9.90
HA-8	04/10/2018	2-3	NA	< 0.0498	**0.0996 (j)**	**7.94**	**79.2**	**87.2**	**3,150**	**3,050**	**108**	**6,310**
HA-8	04/10/2018	5-5.5	NA	< 0.0496	**0.0575 (j)**	**5.37**	**55.9**	**61.3**	**2,400**	**2,450**	**88.5**	**4,940**
HA-9	04/11/2018	4-5	NA	< 0.0501	**0.0862 (j)**	**6.59**	**27.5**	**34.1**	**4,480**	**8,150**	**275**	**12,900**
HA-9	04/11/2018	5-6	NA	< 0.0499	**0.0699 (j)**	**5.80**	**64.1**	**70.0**	**2,800**	**3,980**	**198**	**6,980**
HA-10	04/11/2018	2-3	NA	< 0.000499	< 0.000499	< 0.000499	< 0.000499	< 0.000499	< 10.0	< 10.0	< 10.0	< 10.0
HA-10	04/11/2018	3-4.5	NA	< 0.000499	< 0.000499	< 0.000499	< 0.000499	< 0.000499	< 9.99	< 9.99	< 9.99	< 9.99

ENSOLUM

TABLE 1
SOIL ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Sample Depth (feet bgs)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX* (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	TPH GRO/DRO/ORO* (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			**600**	**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**
EXCAVATION CONFIRMATION ANALYTICAL RESULTS												
EC-1	1/31/2011	8 to 9	NA	<0.0125	**13**	**9.23**	**103**	**<125.2425**	**903**	**6,040**	NA	**6,943**
EC-1(R)	2/24/2011	8 to 9	NA	<0.0123	**13.1**	**2.62**	**50.1**	**65.8323**	**569**	**1,250**	NA	**1,819**
EC-2	1/31/2011	8 to 9	NA	<0.00611	**0.214**	**0.24**	**16.8**	**17.26011**	**1.34**	**4,530**	NA	**4,531**
EC-2(R)	2/24/2011	8 to 9	NA	<0.0127	**7.98**	**0.836**	**25.4**	**34.2287**	**6,980**	**674**	NA	**7,654**
EC-2(R)	2/24/2011	8 to 9	NA	NA	NA	NA	NA	NA	**835**	**2,050**	NA	**2,885**
EC-3	1/31/2011	8 to 9	NA	<0.00128	**0.00713**	<0.00128	**59.4**	**59.40969**	**1,260**	**5,200**	NA	**6,460**
EC-3(R)A	2/24/2011	8 to 9	NA	<0.0126	**4.22**	**1.26**	**12.3**	**17.7926**	**515**	**640**	NA	**1,155**
EC-3(R)B	2/24/2011	8 to 9	NA	<0.00135	**0.00204**	<0.00135	<0.00406	**0.0088**	**0.545**	**14.9**	NA	**15.445**
EC-4	1/31/2011	8 to 9	NA	<0.00126	<0.00126	<0.00126	<0.00379	<0.00757	**0.722**	**44**	NA	**44.722**
EC-5	1/31/2011	8 to 9	NA	<0.0013	**0.0156**	**0.04**	**0.123**	**0.1799**	**0.836**	**692**	NA	**692.84**

Concentrations in **bold** and shaded yellow exceed the applicable OCD Remediation Action Level.

- indicates the area was over-excavated and removed.

(j) - indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

* Totals include reported concentration and/or assume concentrations up to the SDL.

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

ORO - Oil Range Organics

mg/kg - milligrams per kilogram

bgs - below ground surface

NA - Not Analyzed

NE - Not Established

ENSOLUM

TABLE 2
TREATED SOIL AND VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Sample Depth (feet)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX** (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH GRO/DRO** (mg/kg)
NMAC Small Landfarm Closure Performance Standards			**500**	**0.2**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**500**
TS-1	3/24/2011	0 to 0.5	**410**	<0.19	<0.23	<0.23	<0.69	<1.34	**140 (j)**	**1,600**	**1,740**
TS-1 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	**81 (j)**	**1,800**	**1,881**
TS-1 (R2)	8/24/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<16	**570**	**586**
TS-1 (R3)	11/3/2011	0 to 0.5	**120**	NA	NA	NA	NA	NA	<9.8	**440**	**449.8**
TS-2	3/24/2011	0 to 0.5	**310**	<0.019	<0.023	<0.023	<0.069	<0.134	**8.3 (j)**	**770**	**778.3**
TS-2 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<16	**560**	**576**
TS-2 (R2)	8/24/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<16	**470**	**486**
TS-3	3/24/2011	0 to 0.5	**600**	<0.19	<0.23	<0.23	**0.83 (j)**	**1.48**	<80	**1,700**	**1,780**
TS-3 (R)	6/20/2011	0 to 0.5	**290**	NA	NA	NA	NA	NA	<30	**1,400**	**1,430**
TS-3 (R2)	8/24/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<16	**1,200**	**1,216**
TS-3 (R3)	11/3/2011	0 to 0.5	**120**	NA	NA	NA	NA	NA	<24	**1,200**	**1,224**
TS-3 (R4)	12/6/2011	0.5 to 1	NA	NA	NA	NA	NA	NA	<4.8	**270**	**274.8**
TS-4	3/24/2011	0 to 0.5	**270**	<0.019	<0.023	<0.023	**0.14 (j)**	**0.205**	**17 (j)**	**1,300**	**1,317**
TS-4 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<15	**820**	**835**
TS-4 (R2)	8/24/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<7.5	**250**	**257.5**
TS-5	3/24/2011	0 to 0.5	**440**	<0.019	<0.023	<0.023	<0.069	<0.134	<8.0	**1,300**	**1,308**
TS-5 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	**1.6 (j)**	**14**	**15.6**

ENSOLUM

TABLE 2
TREATED SOIL AND VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Sample Depth (feet)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX** (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH GRO/DRO** (mg/kg)
NMAC Small Landfarm Closure Performance Standards			**500**	**0.2**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**500**
TS-6	3/24/2011	0 to 0.5	**190**	**<0.37**	<0.46	<0.45	**1.6 (j)**	**2.88**	<160	**2,000**	**2,160**
TS-6 (R)	6/20/2011	0 to 0.5	NA	<0.018	<0.022	<0.021	<0.065	<0.126	<7.6	**230**	**237.6**
TS-7	3/24/2011	0 to 0.5	**260**	<0.019	<0.023	**0.023 (j)**	**0.25 (j)**	**0.315**	**20 (j)**	**1,500**	**1,520**
TS-7 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<1.6	**56**	**57.6**
TS-8	3/24/2011	0 to 0.5	**350**	<0.019	**0.039 (j)**	**0.069 (j)**	**0.09**	**0.217**	**47**	**1,500**	**1,547**
TS-8 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<1.6	<3.5	<5.1
TS-9	3/24/2011	0 to 0.5	**410**	<0.019	<0.023	**0.023 (j)**	<0.069	**0.134**	<8.0	**650**	**658**
TS-9 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<8.0	**270**	**278**
TS-10	3/24/2011	0 to 0.5	**110**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,000**	**1,080**
TS-10 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<8.4	**250**	**258.4**
TS-11	3/24/2011	0 to 0.5	**160**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,800**	**1,880**
TS-11 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<16	**790**	**806**
TS-11 (R2)	8/24/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<1.5	**350**	**351.5**
TS-12	3/24/2011	0 to 0.5	**160**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,400**	**1,480**
TS-12 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<15	**440**	**455**
TS-13	3/24/2011	0 to 0.5	**100**	**<0.37**	<0.46	<0.45	<1.4	**2.68**	<160	**1,900**	**2,060**
TS-13 (R)	6/20/2011	0 to 0.5	NA	<0.018	<0.022	<0.022	<0.066	<0.128	<7.7	**290**	**297.7**
TS-14	3/24/2011	0 to 0.5	**210**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**1,100**	**1,180**
TS-14 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<15	**500**	**515**
TS-15	3/24/2011	0 to 0.5	**210**	<0.19	<0.23	<0.23	<0.69	<1.34	**160 (j)**	**2,400**	**2,560**
TS-15 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	**17 (j)**	**430**	**447**

ENSOLUM

TABLE 2
TREATED SOIL AND VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Sample Depth (feet)	Chlorides (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX** (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH GRO/DRO** (mg/kg)
NMAC Small Landfarm Closure Performance Standards			**500**	**0.2**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**500**
TS-16	3/24/2011	0 to 0.5	**230**	<0.19	<0.23	<0.23	<0.69	<1.34	**210 (j)**	**1,900**	**2,110**
TS-16 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<1.5	**73**	**74.5**
TS-17	3/24/2011	0 to 0.5	**320**	<0.037	<0.046	<0.045	<0.14	<0.268	<16	**1,200**	**1,216**
TS-17 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	**3.3 (j)**	**99**	**102.3**
TS-18	3/24/2011	0 to 0.5	**280**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,800**	**2,880**
TS-18 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<1.6	**63**	**64.6**
TS-19	3/24/2011	0 to 0.5	**290**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,700**	**2,780**
TS-19 (R)	6/20/2011	8 to 9	NA	NA	NA	NA	NA	NA	<16	**790**	**806**
TS-19 (R2)	8/24/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<7.5	**330**	**337.5**
TS-20	3/24/2011	0 to 0.5	**230**	<0.19	<0.23	<0.23	<0.69	<1.34	<80	**2,200**	**2,280**
TS-20 (R)	6/20/2011	0 to 0.5	NA	NA	NA	NA	NA	NA	<1.6	**72**	**73.6**
VZ-1	3/3/2012	3 to 3.25	**460**	<0.0047	<0.0081	<0.0039	<0.0160	<0.0327	<1.4	<5.4	<6.8
VZ-2	3/3/2012	3 to 3.25	**1,300**	<0.0046	<0.0079	<0.0038	<0.0160	<0.0323	<1.3	<5.4	<6.7

Concentrations in **bold** and shaded yellow exceed the applicable NMAC Small Landfarm Closure Performance Standards.
(j) - indicates that the analyte was reported at or above the sample reporting limit/sample detection limit.
** Totals include reported concentration and/or assume concentrations up to the SDL.
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
mg/kg - milligrams per kilogram
bgs - below ground surface
NE - Not Established

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**
MW-1	1/20/2015	NA	**2,900**	**0.094**	<0.002	<0.002	**0.370**	**2.30**	**1.20**
	10/27/2015	NA	**2,390**	**0.339**	<0.002	**0.074**	**0.369**	**4.95**	<1.40
	2/4/2016	NA	**1,740**	**0.966**	<0.010	**0.198**	**0.874**	**7.46**	**1.43**
	5/3/2016	NA	NA	**1.570**	**0.0187**	**0.343**	**1.760**	**6.99**	<1.50
	8/9/2016	NA	NA	**0.387**	<0.00184	**0.0877**	**0.439**	**7.96**	**1.42 (j)**
	11/14/2016	Not Sampled Due to Presence of PSH							
	2/23/2017	Not Sampled Due to Presence of PSH							
	5/11/2017	Not Sampled Due to Presence of PSH							
	8/22/2017	Not Sampled Due to Presence of PSH							
	11/17/2017	NA	NA	**0.772**	**0.0206**	**0.119**	**0.509**	**9.79**	**9.32**
	5/31/2018	Not Sampled Due to Presence of PSH							
	9/17/2019	Not Sampled Due to Presence of PSH							
	5/19/2020	Not Sampled Due to Presence of PSH							
	11/10/2020	Not Sampled Due to Presence of PSH							

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**
MW-2	1/20/2015	Not Sampled Due to Presence of PSH							
	10/27/2015	Not Sampled Due to Presence of PSH							
	2/4/2016	Not Sampled Due to Presence of PSH							
	5/2/2016	Not Sampled Due to Presence of PSH							
	8/9/2016	Not Sampled Due to Presence of PSH							
	11/14/2016	Not Sampled Due to Presence of PSH							
	2/23/2017	Not Sampled Due to Presence of PSH							
	5/11/2017	Not Sampled Due to Presence of PSH							
	8/22/2017	Not Sampled Due to Presence of PSH							
	11/16/2017	Not Sampled Due to Presence of PSH							
	5/31/2018	Not Sampled Due to Presence of PSH							
	9/17/2019	Not Sampled Due to Presence of PSH							
	5/19/2020	Not Sampled Due to Presence of PSH							
	11/10/2020	Not Sampled Due to Presence of PSH							
MW-3	1/20/2015	NA	**1,800**	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00
	10/27/2015	NA	**3,470**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41
	2/4/2016	NA	**2,350**	**0.00476**	<0.002	**0.00385**	0.0149	<1.41	<1.41
	5/2/2016	NA	NA	<0.002	<0.0015	<0.002	<0.002	<1.50	<1.50
	8/8/2016	NA	NA	<0.000408	<0.000637	<0.000657	<0.000630	<0.986	<0.911
	11/14/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	2/24/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986
	5/11/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	8/22/2017	NA	NA	<0.000408	**0.00151 (j)**	<0.000657	<0.000630	<0.986	<0.911
	11/16/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	5/31/2018	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	9/16/2019	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.874	**1.16 (j)**
	5/19/2020	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.900	<0.831
	11/10/2020	NA	NA	<0.000408	**0.00102 J**	<0.000657	<0.000630	<0.887	<0.819

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**
MW-4	1/20/2015	6,940	**2,500**	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00
	10/27/2015	NA	**2,040**	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40
	2/4/2016	NA	**2,230**	**0.00706**	<0.002	**0.00485**	**0.0217**	<1.41	<1.41
	5/2/2016	NA	NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50
	8/8/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	11/14/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	2/24/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986
	5/11/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	8/22/2017	NA	NA	<0.000408	**0.00172 (j)**	<0.000657	<0.000630	<0.986	<0.911
	11/17/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	5/31/2018	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	9/16/2019	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.881	**1.16 (j)**
	5/19/2020	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.924	<0.854
	11/10/2020	NA	NA	<0.000408	**0.000640 J**	<0.000657	<0.000630	<0.892	<0.824
MW-5	1/20/2015	**4,930**	**1,100**	<0.001	<0.001	<0.001	<0.0015	<0.05	<1.00
	10/27/2015	NA	**2,190**	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40
	2/4/2016	NA	**2,230**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41
	5/2/2016	NA	NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50
	8/8/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	11/14/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	2/23/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.986
	5/11/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	8/22/2017	NA	NA	<0.000408	0.00184 (j)	<0.000657	<0.000630	<0.986	<0.911
	11/16/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	5/31/2018	NA	NA	<0.000408	**0.00086**	<0.000657	<0.000630	<0.987	<0.911
	9/17/2019	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.874	**0.829 (j)**
	5/19/2020	NA	NA	<0.000408	**0.000470 J**	<0.000657	<0.000630	<0.911	<0.842
	11/11/2020	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.884	<0.817

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**
MW-6	10/27/2015	NA	**335**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41
	2/4/2016	NA	**339**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41
	5/2/2016	NA	NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50
	8/8/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	11/14/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	2/23/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986
	5/11/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	8/22/2017	NA	NA	<0.000408	**0.00167 (j)**	<0.000657	<0.000630	<0.986	<0.911
	11/16/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	5/31/2018	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	9/17/2019	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.865	**1.10 (j)**
	5/19/2020	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.911	<0.842
	11/11/2020	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.888	<0.820
MW-7	10/27/2015	NA	**1,470**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41
	2/4/2016	NA	**1,400**	<0.001	<0.002	<0.002	<0.0010	<1.40	<1.40
	5/2/2016	NA	NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50
	8/8/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911
	11/14/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	2/24/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986
	5/11/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	8/22/2017	NA	NA	<0.000408	**0.00342**	<0.000657	<0.000630	<0.987	<0.911
	11/16/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911
	5/30/2018	NA	NA	<0.000408	**0.000570**	<0.000657	<0.000630	<0.986	<0.911
	9/17/2019	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.877	**1.03 (j)**
	5/19/2020	NA	NA	**0.000470 J**	<0.000367	<0.000657	**0.000650 J**	<0.925	<0.855
	11/11/2020	NA	NA	<0.000408	**0.000410 J**	<0.000657	<0.000630	<0.884	<0.817

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**
MW-8	10/27/2015	NA	**2,240**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41
	2/4/2016	NA	**690**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41
	5/2/2016	NA	NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50
	8/8/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911
	11/14/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911
	2/24/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986
	5/11/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.911
	8/22/2017	NA	NA	<0.000408	**0.00156 (j)**	<0.000657	<0.000630	<0.986	<0.911
	11/16/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	5/31/2018	NA	NA	<0.000408	**0.000840**	<0.000657	<0.000630	<0.986	<0.911
	9/17/2019	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.877	<0.810
	5/19/2020	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.909	<0.840
	11/10/2020	NA	NA	<0.000408	**0.000410 J**	<0.000657	<0.000630	<0.902	<0.833
MW-9	10/27/2015	NA	**1,600**	<0.001	<0.002	<0.001	<0.0010	<1.40	<1.40
	2/4/2016	NA	**1,320**	<0.001	<0.001	<0.0010	<0.0010	<1.41	<1.41
	5/2/2016	NA	NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50
	8/8/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	11/14/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	2/24/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.987	<0.986
	5/11/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	8/22/2017	NA	NA	<0.000408	**0.00134 (j)**	<0.000657	<0.000630	<0.986	<0.911
	11/17/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	5/30/2018	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	9/16/2019	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.886	**1.26 (j)**
	5/19/2020	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.922	<0.852
	11/11/2020	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.916	<0.846

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		**NE**	**250.0**	**0.005**	**1**	**0.7**	**0.62**	**NE**	**NE**
MW-10	10/28/2015	NA	**474**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41
	2/4/2016	NA	**762**	<0.001	<0.002	<0.001	<0.0010	<1.41	<1.41
	5/3/2016	NA	NA	<0.002	<0.0015	<0.002	<0.0020	<1.50	<1.50
	8/9/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	11/15/2016	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	2/24/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.986
	5/11/2017	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	8/22/2017	NA	NA	<0.000408	**0.00135 (j)**	<0.000657	<0.000630	<0.986	<0.911
	11/17/2017	NA	NA	0.00077	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	5/31/2018	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.986	<0.911
	9/17/2019	NA	NA	<0.000408	<0.000367	<0.000657	<0.000630	<0.866	**1.17 (j)**
	5/19/2020	NA	NA	**0.000500 J**	<0.000367	<0.000657	<0.000630	<0.915	<0.845
	11/11/2020	NA	NA	**0.00132 J**	<0.000367	<0.000657	<0.000630	**0.960 J**	<0.825
MW-11S	12/9/2019	NA	NA	**0.637**	**0.393**	**0.0959**	**0.520**	**5.88**	**5.18**
	5/19/2020	NA	NA	**0.748**	**0.0745 J**	**0.142**	**0.139**	**5.37**	**6.28**
	11/11/2020	NA	NA	**1.26**	**0.00207**	**0.258**	**0.09568**	**3.81**	**2.10 J**
MW-11D	12/9/2019	NA	NA	**0.0155**	<0.00200	<0.00200	**0.00780**	<2.29	<2.29
	5/19/2020	NA	NA	**0.00197 J**	**0.000660 J**	<0.000657	**0.00113 J**	<0.902	<0.833
	11/11/2020	NA	NA	**0.0544**	**0.000760 J**	<0.000657	**0.001410 J**	<0.895	<0.827

Concentrations in **bold** and shaded yellow exceed the applicable New Mexico Water Quality Control Comission Groundwater Quality Standards

Chlorides removed as a COC starting in May 2016

(j) - indicates that the analyte was reported at or above the sample detection limit, but below the reporting limit.

mg/L - milligrams per liter

NA - Not Analyzed

NE - Not Established

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-1	12/19/2014	3,065.725	--	8.77	--	3,056.96
	1/20/2015		--	9.02	--	3,056.71
	10/27/2015		--	7.50	--	3,058.23
	11/19/2015		--	7.68	--	3,058.05
	2/4/2016		--	7.66	--	3,058.07
	5/2/2016		--	8.73	--	3,057.00
	8/9/2016		--	9.17	--	3,056.56
	11/14/2016		7.69	8.15	0.46	3,057.97
	2/23/2017		--	8.50	--	3,057.23
	5/11/2017		9.35	11.75	2.40	3,056.02
	8/22/2017		8.83	9.90	1.07	3,056.73
	11/16/2017		8.25	8.34	0.09	3,057.46
	5/30/2018		9.80	11.24	1.44	3,055.71
	2/14/2019		8.17	8.91	0.74	3,057.44
	9/16/2019		8.34	9.04	0.70	3,057.28
	5/18/2020		8.19	9.95	1.76	3,057.27
	11/10/2020		9.70	12.49	2.79	3,055.61

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-2	12/19/2014	3,064.625	7.05	13.36	6.31	3,056.63
	1/20/2015		6.75	17.80	11.05	3,056.22
	10/27/2015		3.49	17.39	13.90	3,059.05
	11/19/2015		4.11	19.38	15.27	3,058.22
	2/4/2016		4.49	18.53	14.04	3,058.03
	5/2/2016		5.99	17.57	11.58	3,056.90
	7/27/2016		8.40	8.62	0.22	3,056.19
	8/9/2016		8.30	8.46	0.16	3,056.30
	8/24/2016		7.19	7.54	0.35	3,057.38
	9/15/2016		5.42	7.67	2.25	3,058.87
	9/29/2016		5.84	8.60	2.76	3,058.37
	11/14/2016		6.23	8.45	2.22	3,058.06
	2/23/2017		6.81	12.50	5.69	3,056.96
	5/11/2017		8.72	8.78	0.06	3,055.90
	8/22/2017		7.80	8.16	0.36	3,056.77
	11/16/2017		7.25	7.65	0.40	3,057.32
	5/30/2018		9.09	9.87	0.78	3,055.42
	2/14/2019		7.64	9.72	2.08	3,056.67
	9/16/2019		6.50	17.50	11.00	3,056.48
	5/18/2020		7.16	15.00	7.84	3,056.29
	11/10/2020		8.49	18.84	10.35	3,054.58

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-3	12/19/2014	3,065.405	--	8.94	--	3,056.47
	1/20/2015		--	8.76	--	3,056.65
	10/27/2015		--	6.38	--	3,059.03
	11/19/2015		--	7.48	--	3,057.93
	2/4/2016		--	7.74	--	3,057.67
	5/2/2016		--	8.50	--	3,056.91
	8/9/2016		--	8.96	--	3,056.45
	11/14/2016		--	7.22	--	3,058.19
	2/23/2017		--	8.49	--	3,056.92
	5/11/2017		--	9.70	--	3,055.71
	8/22/2017		--	8.75	--	3,056.66
	11/16/2017		--	7.38	--	3,058.03
	5/30/2018		--	9.72	--	3,055.69
	2/14/2019		--	8.53	--	3,056.88
	9/16/2019		--	8.00	--	3,057.41
	5/18/2020		--	7.96	--	3,057.45
	11/10/2020		--	9.87	--	3,055.54

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-4	12/19/2014	3,065.975	--	8.95	--	3,057.03
	1/20/2015		--	8.81	--	3,057.17
	10/27/2015		--	7.51	--	3,058.47
	11/19/2015		--	8.31	--	3,057.67
	2/4/2016		--	8.29	--	3,057.69
	5/2/2016		--	9.10	--	3,056.88
	8/9/2016		--	9.53	--	3,056.45
	11/14/2016		--	7.92	--	3,058.06
	2/23/2017		--	5.97	--	3,060.01
	5/11/2017		--	10.37	--	3,055.61
	8/22/2017		--	9.74	--	3,056.24
	11/16/2017		--	8.55	--	3,057.43
	5/30/2018		--	10.47	--	3,055.51
	2/14/2019		--	8.96	--	3,057.02
	9/16/2019		--	8.62	--	3,057.36
	5/18/2020		--	8.73	--	3,057.25
	11/10/2020		--	10.43	--	3,055.55

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-5	12/19/2014	3,065.445	--	8.20	--	3,057.25
	1/20/2015		--	8.50	--	3,056.95
	10/27/2015		--	6.46	--	3,058.99
	11/19/2015		--	6.84	--	3,058.61
	2/4/2016		--	6.75	--	3,058.70
	5/2/2016		--	7.80	--	3,057.65
	8/9/2016		--	7.33	--	3,058.12
	11/14/2016		--	7.07	--	3,058.38
	2/23/2017		--	7.71	--	3,057.74
	5/11/2017		--	8.86	--	3,056.59
	8/22/2017		--	8.54	--	3,056.91
	11/16/2017		--	7.76	--	3,057.69
	5/30/2018		--	9.54	--	3,055.91
	2/14/2019		--	7.99	--	3,057.46
	9/16/2019		--	8.32	--	3,057.13
	5/18/2020		--	8.44	--	3,057.01
	11/10/2020		--	10.02	--	3,055.43

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-6	10/27/2015	3,063.680	--	3.58	--	3,060.10
	11/19/2015		--	4.98	--	3,058.70
	2/4/2016		--	5.18	--	3,058.50
	5/2/2016		--	6.49	--	3,057.19
	8/9/2016		--	7.33	--	3,056.35
	11/14/2016		--	5.46	--	3,058.22
	2/23/2017		--	6.41	--	3,057.27
	5/11/2017		--	7.54	--	3,056.14
	8/22/2017		--	6.88	--	3,056.80
	11/16/2017		--	5.39	--	3,058.29
	5/30/2018		--	8.31	--	3,055.37
	2/14/2019		--	6.74	--	3,056.94
	9/16/2019		--	7.40	--	3,056.28
	5/18/2020		--	7.68	--	3,056.00
	11/10/2020		--	9.28	--	3,054.40

TABLE 4
GROUNDWATER GAUGING RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-7	10/27/2015	3,061.710	--	7.00	--	3,054.71
	11/19/2015		--	7.61	--	3,054.10
	2/4/2016		--	7.34	--	3,054.37
	5/2/2016		--	8.61	--	3,053.10
	8/9/2016		--	9.44	--	3,052.27
	11/14/2016		--	8.12	--	3,053.59
	2/23/2017		--	8.77	--	3,052.94
	5/11/2017		--	9.75	--	3,051.96
	8/22/2017		--	9.67	--	3,052.04
	11/16/2017		--	8.62	--	3,053.09
	5/30/2018		--	10.80	--	3,050.91
	2/14/2019		--	9.29	--	3,052.42
	9/16/2019		--	9.91	--	3,051.80
	5/18/2020		--	10.10	--	3,051.61
	11/10/2020		--	10.70	--	3,051.01

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-8	10/27/2015	3,063.650	--	4.76	--	3,058.89
	11/19/2015		--	5.87	--	3,057.78
	2/4/2016		--	6.14	--	3,057.51
	5/2/2016		--	7.41	--	3,056.24
	8/9/2016		--	8.14	--	3,055.51
	11/14/2016		--	6.25	--	3,057.40
	2/23/2017		--	7.20	--	3,056.45
	5/11/2017		--	8.32	--	3,055.33
	8/22/2017		--	7.83	--	3,055.82
	11/16/2017		--	6.26	--	3,057.39
	5/30/2018		--	8.96	--	3,054.69
	2/14/2019		--	7.44	--	3,056.21
	9/16/2019		--	7.80	--	3,055.85
	5/18/2020		--	7.89	--	3,055.76
	11/10/2020		--	8.39	--	3,055.26

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-9	10/27/2015	3,067.020	--	11.26	--	3,055.76
	11/19/2015		--	11.60	--	3,055.42
	2/4/2016		--	11.00	--	3,056.02
	5/2/2016		--	12.18	--	3,054.84
	8/9/2016		--	12.92	--	3,054.10
	11/14/2016		--	11.04	--	3,055.98
	2/23/2017		--	11.84	--	3,055.18
	5/11/2017		--	12.97	--	3,054.05
	8/22/2017		--	12.99	--	3,054.03
	11/16/2017		--	11.94	--	3,055.08
	5/30/2018		--	13.20	--	3,053.82
	2/14/2019		--	11.56	--	3,055.46
	9/16/2019		--	11.59	--	3,055.43
	5/18/2020		--	11.63	--	3,055.39
	11/10/2020		--	13.10	--	3,053.92

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-10	10/27/2015	3,064.210	--	4.99	--	3,059.22
	11/19/2015		--	6.26	--	3,057.95
	2/4/2016		--	6.46	--	3,057.75
	5/2/2016		--	7.41	--	3,056.80
	8/9/2016		--	7.97	--	3,056.24
	11/14/2016		--	6.18	--	3,058.03
	2/23/2017		--	7.30	--	3,056.91
	5/11/2017		--	8.49	--	3,055.72
	8/22/2017		--	7.75	--	3,056.46
	11/16/2017		--	6.24	--	3,057.97
	5/30/2018		--	8.83	--	3,055.38
	2/14/2019		--	7.46	--	3,056.75
	9/16/2019		--	7.40	--	3,056.81
	5/18/2020		--	7.48	--	3,056.73
	11/10/2020		--	9.21	--	3,055.00

ENSOLUM

TABLE 4
GROUNDWATER GAUGING RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Monitoring Well	Date	Top-of-Casing Elevation (feet AMSL)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation (feet AMSL)
MW-11S	12/9/2019	3,065.920	--	8.78	--	3,057.14
	5/18/2020		--	8.88	--	3,057.04
	11/10/2020		--	10.24	--	3,055.68
MW-11D	12/9/2019	3,065.870	--	8.78	--	3,057.09
	5/18/2020		--	8.92	--	3,056.95
	11/10/2020		--	10.60	--	3,055.27

AMSL - above mean sea level

-- No PSH present during gauging event

TABLE 5
GROUNDWATER QUALITY RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-1	9/16/2019	Not sampled due to presence of PSH				
	5/19/2020	Not sampled due to presence of PSH				
	11/10/2020	Not sampled due to presence of PSH				
MW-2	9/16/2019	Not sampled due to presence of PSH				
	5/19/2020	Not sampled due to presence of PSH				
	11/10/2020	Not sampled due to presence of PSH				
MW-3	9/16/2019	28.7	6.63	0.35	101.0	7.64
	5/19/2020	22.0	6.77	2.11	168.1	9.54
	11/10/2020	19.8	6.58	1.15	97.8	8.14
MW-4	9/16/2019	27.7	6.29	0.34	115.8	8.45
	5/19/2020	21.4	6.28	1.21	194.2	9.35
	11/10/2020	19.4	6.16	2.01	116.5	8.14
MW-5	9/17/2019	28.6	6.51	0.30	117.8	5.56
	5/19/2020	28.2	6.47	0.44	171.7	6.11
	11/11/2020	17.6	6.41	1.45	58.2	5.76

ENSOLUM

TABLE 5
GROUNDWATER QUALITY RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-6	9/17/2019	29.8	6.84	0.62	117.2	4.35
	5/19/2020	26.9	6.81	0.54	152.8	4.76
	11/11/2020	19.3	6.91	4.78	85.6	4.26
MW-7	9/17/2019	25.5	6.57	0.36	106.0	6.45
	5/19/2020	23.5	6.59	5.13	168.9	7.35
	11/11/2020	14.9	6.62	0.73	73.4	6.88
MW-8	9/17/2019	24.4	6.56	0.63	141.5	6.70
	5/19/2020	24.6	6.52	0.50	179.6	7.86
	11/11/2020	22.0	6.43	0.55	85.8	6.91
MW-9	9/16/2019	31.0	6.76	0.52	39.9	7.25
	5/19/2020	28.1	6.79	0.97	173.2	7.68
	11/11/2020	20.0	6.61	0.31	33.5	6.77
MW-10	9/17/2019	30.1	6.08	0.22	127.2	4.84
	5/19/2020	27.7	5.96	0.45	11.8	5.53
	11/11/2020	19.9	5.87	0.39	46.9	4.66

TABLE 5
GROUNDWATER QUALITY RESULTS
SOUTH CARLSBAD COMPRESSOR STATION

Sample I.D.	Date	Temperature (°C)	pH (Unitless)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-11S	12/9/2019	19.23	7.12	0.09	-339.2	5.41
	5/19/2020	25.7	6.51	0.24	-260.8	6.03
	11/11/2020	22.9	6.49	0.13	-264.9	5.11
MW-11D	12/9/2019	18.73	6.65	0.29	-189.0	6.69
	5/19/2020	27.4	6.33	0.69	-82.9	7.90
	11/11/2020	22.5	6.09	3.16	49.0	7.38

°C - degrees celsius
mg/L - milligrams per liter
mV - millivolts
mS/cm - millisiemens per centimeter

ENSOLUM

APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody Documentation

Certificate of Analysis Summary 662024

Ensolum, Dallas, TX

Project Name: South Carlsbad Sra.

Project Id: 03B1226001
Contact: Beaux Jennings
Project Location: Carlsbad, NM

Date Received in Lab: Tue 05.19.2020 16:58
Report Date: 05.23.2020 12:36
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	662024-001		662024-002		662024-003		662024-004		662024-005		662024-006	
	Field Id:	MW3		MW4		MW5		MW6		MW7		MW8	
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER	
	Sampled:	05.19.2020 09:05		05.19.2020 08:30		05.19.2020 11:35		05.19.2020 11:00		05.19.2020 10:25		05.19.2020 09:40	
BTEX by EPA 8021B	***Extracted:***	05.21.2020 17:00		05.21.2020 17:00		05.21.2020 17:00		05.21.2020 17:00		05.21.2020 17:00		05.21.2020 17:00	
	Analyzed:	05.22.2020 07:47		05.22.2020 08:07		05.22.2020 08:27		05.22.2020 08:47		05.22.2020 09:08		05.22.2020 09:28	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		<0.000408	0.00200	<0.000408	0.00200	<0.000408	0.00200	<0.000408	0.00200	0.000470 J	0.00200	<0.000408	0.00200
Toluene		<0.000367	0.00200	<0.000367	0.00200	0.000470 J	0.00200	<0.000367	0.00200	<0.000367	0.00200	<0.000367	0.00200
Ethylbenzene		<0.000657	0.00200	<0.000657	0.00200	<0.000657	0.00200	<0.000657	0.00200	<0.000657	0.00200	<0.000657	0.00200
m,p-Xylenes		<0.000630	0.00400	<0.000630	0.00400	<0.000630	0.00400	<0.000630	0.00400	0.000650 J	0.00400	<0.000630	0.00400
o-Xylene		<0.000642	0.00200	<0.000642	0.00200	<0.000642	0.00200	<0.000642	0.00200	<0.000642	0.00200	<0.000642	0.00200
Total Xylenes		<0.000630	0.00200	<0.000630	0.00200	<0.000630	0.00200	<0.000630	0.00200	0.000650 J	0.00200	<0.000630	0.00200
Total BTEX		<0.000367	0.00200	<0.000367	0.00200	0.000470 J	0.00200	<0.000367	0.00200	0.00112 J	0.00200	<0.000367	0.00200
TPH by SW8015 Mod	***Extracted:***	05.20.2020 14:00		05.20.2020 14:00		05.20.2020 14:00		05.20.2020 14:00		05.20.2020 14:00		05.20.2020 14:00	
	Analyzed:	05.20.2020 17:44		05.20.2020 18:39		05.20.2020 18:57		05.20.2020 19:16		05.20.2020 19:34		05.20.2020 19:52	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Gasoline Range Hydrocarbons (GRO)		<0.900	2.28	<0.924	2.34	<0.911	2.31	<0.911	2.31	<0.925	2.34	<0.909	2.30
Diesel Range Organics (DRO)		<0.831	2.28	<0.854	2.34	<0.842	2.31	<0.842	2.31	<0.855	2.34	<0.840	2.30
Motor Oil Range Hydrocarbons (MRO)		<0.831	2.28	<0.854	2.34	<0.842	2.31	<0.842	2.31	<0.855	2.34	<0.840	2.30
Total TPH		<0.831	2.28	<0.854	2.34	<0.842	2.31	<0.842	2.31	<0.855	2.34	<0.840	2.30

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Manager

Certificate of Analysis Summary 662024

Ensolum, Dallas, TX

Project Name: South Carlsbad Sra.

Project Id: 03B1226001
Contact: Beaux Jennings
Project Location: Carlsbad, NM

Date Received in Lab: Tue 05.19.2020 16:58
Report Date: 05.23.2020 12:36
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	662024-007		662024-008		662024-009		662024-010					
	Field Id:	MW9		MW10		MW11S		MW11D					
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER					
	Sampled:	05.19.2020 12:05		05.19.2020 13:55		05.19.2020 12:40		05.19.2020 13:15					
BTEX by EPA 8021B	***Extracted:***	05.21.2020 17:00		05.21.2020 17:00		05.21.2020 17:00		05.21.2020 17:00					
	Analyzed:	05.22.2020 10:49		05.22.2020 11:09		05.22.2020 13:50		05.22.2020 11:29					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL				
Benzene		<0.000408	0.00200	0.000500 J	0.00200	0.748	0.100	0.00197 J	0.00200				
Toluene		<0.000367	0.00200	<0.000367	0.00200	0.0745 J	0.100	0.000660 J	0.00200				
Ethylbenzene		<0.000657	0.00200	<0.000657	0.00200	0.142	0.100	<0.000657	0.00200				
m,p-Xylenes		<0.000630	0.00400	<0.000630	0.00400	0.139 J	0.200	0.00113 J	0.00400				
o-Xylene		<0.000642	0.00200	<0.000642	0.00200	<0.0321	0.100	<0.000642	0.00200				
Total Xylenes		<0.000630	0.00200	<0.000630	0.00200	0.139	0.100	0.00113 J	0.00200				
Total BTEX		<0.000367	0.00200	0.000500 J	0.00200	1.10	0.100	0.00376	0.00200				
TPH by SW8015 Mod	***Extracted:***	05.20.2020 14:00		05.20.2020 14:00		05.20.2020 14:00		05.20.2020 14:00					
	Analyzed:	05.20.2020 20:11		05.20.2020 20:30		05.20.2020 20:48		05.20.2020 21:07					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL				
Gasoline Range Hydrocarbons (GRO)		<0.922	2.33	<0.915	2.32	5.37	2.32	<0.902	2.28				
Diesel Range Organics (DRO)		<0.852	2.33	<0.845	2.32	6.28	2.32	<0.833	2.28				
Motor Oil Range Hydrocarbons (MRO)		<0.852	2.33	<0.845	2.32	<0.847	2.32	<0.833	2.28				
Total TPH		<0.852	2.33	<0.845	2.32	11.7	2.32	<0.833	2.28				

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Manager

Analytical Report 662024

for

Ensolum

Project Manager: Beaux Jennings

South Carlsbad Sra.

03B1226001

05.23.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05.23.2020

Project Manager: **Beaux Jennings**
Ensolum
2351 W Northwest Highway
Suite 1203
Dallas, TX 75220

Reference: XENCO Report No(s): **662024**
South Carlsbad Sra.
Project Address: Carlsbad, NM

Beaux Jennings:

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) 662024. 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. 662024 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 Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 662024

Ensolum, Dallas, TX

South Carlsbad Sra.

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW3	W	05.19.2020 09:05		662024-001
MW4	W	05.19.2020 08:30		662024-002
MW5	W	05.19.2020 11:35		662024-003
MW6	W	05.19.2020 11:00		662024-004
MW7	W	05.19.2020 10:25		662024-005
MW8	W	05.19.2020 09:40		662024-006
MW9	W	05.19.2020 12:05		662024-007
MW10	W	05.19.2020 13:55		662024-008
MW11S	W	05.19.2020 12:40		662024-009
MW11D	W	05.19.2020 13:15		662024-010

CASE NARRATIVE

Client Name: Ensolum

Project Name: South Carlsbad Sra.

Project ID: *03B1226001*
Work Order Number(s): *662024*

Report Date: *05.23.2020*
Date Received: *05.19.2020*

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3126794 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7703945-1-BKS,7703945-1-BSD,662127-001 S,662127-001 SD,662024-005,662024-006,662024-004,662024-003,662024-008,662024-001,662024-002.

Certificate of Analytical Results 662024

Ensolum, Dallas, TX

South Carlsbad Sra.

Sample Id: **MW3** Matrix: Ground Water Date Received:05.19.2020 16:58

Lab Sample Id: 662024-001 Date Collected: 05.19.2020 09:05

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.20.2020 14:00

Seq Number: 3126631

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.900	2.28	0.900	mg/L	05.20.2020 17:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.831	2.28	0.831	mg/L	05.20.2020 17:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.831	2.28	0.831	mg/L	05.20.2020 17:44	U	1
Total TPH	PHC635	<0.831	2.28	0.831	mg/L	05.20.2020 17:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	05.20.2020 17:44	
o-Terphenyl	84-15-1	118	%	70-135	05.20.2020 17:44	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: AMF % Moisture:

Analyst: AMF Date Prep: 05.21.2020 17:00

Seq Number: 3126794

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	05.22.2020 07:47	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	05.22.2020 07:47	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	05.22.2020 07:47	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	05.22.2020 07:47	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	05.22.2020 07:47	U	1
Total Xylenes	1330-20-7	<0.000630	0.00200	0.000630	mg/L	05.22.2020 07:47	U	1
Total BTEX		<0.000367	0.00200	0.000367	mg/L	05.22.2020 07:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.22.2020 07:47	
4-Bromofluorobenzene	460-00-4	138	%	70-130	05.22.2020 07:47	**

Certificate of Analytical Results 662024

Ensolum, Dallas, TX

South Carlsbad Sra.

Sample Id: **MW4** Matrix: Ground Water Date Received:05.19.2020 16:58

Lab Sample Id: 662024-002 Date Collected: 05.19.2020 08:30

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.20.2020 14:00

Seq Number: 3126631

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.924	2.34	0.924	mg/L	05.20.2020 18:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.854	2.34	0.854	mg/L	05.20.2020 18:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.854	2.34	0.854	mg/L	05.20.2020 18:39	U	1
Total TPH	PHC635	<0.854	2.34	0.854	mg/L	05.20.2020 18:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	05.20.2020 18:39	
o-Terphenyl	84-15-1	116	%	70-135	05.20.2020 18:39	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: AMF % Moisture:

Analyst: AMF Date Prep: 05.21.2020 17:00

Seq Number: 3126794

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	05.22.2020 08:07	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	05.22.2020 08:07	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	05.22.2020 08:07	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	05.22.2020 08:07	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	05.22.2020 08:07	U	1
Total Xylenes	1330-20-7	<0.000630	0.00200	0.000630	mg/L	05.22.2020 08:07	U	1
Total BTEX		<0.000367	0.00200	0.000367	mg/L	05.22.2020 08:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	05.22.2020 08:07	
4-Bromofluorobenzene	460-00-4	136	%	70-130	05.22.2020 08:07	**

Certificate of Analytical Results 662024

Ensolum, Dallas, TX

South Carlsbad Sra.

Sample Id: **MW5** Matrix: Ground Water Date Received:05.19.2020 16:58

Lab Sample Id: 662024-003 Date Collected: 05.19.2020 11:35

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.20.2020 14:00

Seq Number: 3126631

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.911	2.31	0.911	mg/L	05.20.2020 18:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.842	2.31	0.842	mg/L	05.20.2020 18:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.842	2.31	0.842	mg/L	05.20.2020 18:57	U	1
Total TPH	PHC635	<0.842	2.31	0.842	mg/L	05.20.2020 18:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	05.20.2020 18:57	
o-Terphenyl	84-15-1	116	%	70-135	05.20.2020 18:57	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: AMF % Moisture:

Analyst: AMF Date Prep: 05.21.2020 17:00

Seq Number: 3126794

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	05.22.2020 08:27	U	1
Toluene	108-88-3	**0.000470**	0.00200	0.000367	mg/L	05.22.2020 08:27	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	05.22.2020 08:27	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	05.22.2020 08:27	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	05.22.2020 08:27	U	1
Total Xylenes	1330-20-7	<0.000630	0.00200	0.000630	mg/L	05.22.2020 08:27	U	1
Total BTEX		**0.000470**	0.00200	0.000367	mg/L	05.22.2020 08:27	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	116	%	70-130	05.22.2020 08:27	
4-Bromofluorobenzene	460-00-4	146	%	70-130	05.22.2020 08:27	**

Certificate of Analytical Results 662024

Ensolum, Dallas, TX

South Carlsbad Sra.

Sample Id: **MW6** Matrix: Ground Water Date Received:05.19.2020 16:58

Lab Sample Id: 662024-004 Date Collected: 05.19.2020 11:00

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.20.2020 14:00

Seq Number: 3126631

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.911	2.31	0.911	mg/L	05.20.2020 19:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.842	2.31	0.842	mg/L	05.20.2020 19:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.842	2.31	0.842	mg/L	05.20.2020 19:16	U	1
Total TPH	PHC635	<0.842	2.31	0.842	mg/L	05.20.2020 19:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-135	05.20.2020 19:16	
o-Terphenyl	84-15-1	101	%	70-135	05.20.2020 19:16	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: AMF % Moisture:

Analyst: AMF Date Prep: 05.21.2020 17:00

Seq Number: 3126794

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	05.22.2020 08:47	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	05.22.2020 08:47	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	05.22.2020 08:47	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	05.22.2020 08:47	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	05.22.2020 08:47	U	1
Total Xylenes	1330-20-7	<0.000630	0.00200	0.000630	mg/L	05.22.2020 08:47	U	1
Total BTEX		<0.000367	0.00200	0.000367	mg/L	05.22.2020 08:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.22.2020 08:47	
4-Bromofluorobenzene	460-00-4	139	%	70-130	05.22.2020 08:47	**

Certificate of Analytical Results 662024

Ensolum, Dallas, TX

South Carlsbad Sra.

Sample Id: **MW7** Matrix: Ground Water Date Received:05.19.2020 16:58

Lab Sample Id: 662024-005 Date Collected: 05.19.2020 10:25

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.20.2020 14:00

Seq Number: 3126631

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.925	2.34	0.925	mg/L	05.20.2020 19:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.855	2.34	0.855	mg/L	05.20.2020 19:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.855	2.34	0.855	mg/L	05.20.2020 19:34	U	1
Total TPH	PHC635	<0.855	2.34	0.855	mg/L	05.20.2020 19:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	05.20.2020 19:34	
o-Terphenyl	84-15-1	124	%	70-135	05.20.2020 19:34	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: AMF % Moisture:

Analyst: AMF Date Prep: 05.21.2020 17:00

Seq Number: 3126794

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.000470**	0.00200	0.000408	mg/L	05.22.2020 09:08	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	05.22.2020 09:08	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	05.22.2020 09:08	U	1
m,p-Xylenes	179601-23-1	**0.000650**	0.00400	0.000630	mg/L	05.22.2020 09:08	J	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	05.22.2020 09:08	U	1
Total Xylenes	1330-20-7	**0.000650**	0.00200	0.000630	mg/L	05.22.2020 09:08	J	1
Total BTEX		**0.00112**	0.00200	0.000367	mg/L	05.22.2020 09:08	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	117	%	70-130	05.22.2020 09:08	
4-Bromofluorobenzene	460-00-4	144	%	70-130	05.22.2020 09:08	**

Certificate of Analytical Results 662024

Ensolum, Dallas, TX

South Carlsbad Sra.

Sample Id: **MW8** Matrix: Ground Water Date Received:05.19.2020 16:58

Lab Sample Id: 662024-006 Date Collected: 05.19.2020 09:40

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.20.2020 14:00

Seq Number: 3126631

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.909	2.30	0.909	mg/L	05.20.2020 19:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.840	2.30	0.840	mg/L	05.20.2020 19:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.840	2.30	0.840	mg/L	05.20.2020 19:52	U	1
Total TPH	PHC635	<0.840	2.30	0.840	mg/L	05.20.2020 19:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	05.20.2020 19:52	
o-Terphenyl	84-15-1	116	%	70-135	05.20.2020 19:52	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: AMF % Moisture:

Analyst: AMF Date Prep: 05.21.2020 17:00

Seq Number: 3126794

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	05.22.2020 09:28	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	05.22.2020 09:28	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	05.22.2020 09:28	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	05.22.2020 09:28	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	05.22.2020 09:28	U	1
Total Xylenes	1330-20-7	<0.000630	0.00200	0.000630	mg/L	05.22.2020 09:28	U	1
Total BTEX		<0.000367	0.00200	0.000367	mg/L	05.22.2020 09:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	117	%	70-130	05.22.2020 09:28	
4-Bromofluorobenzene	460-00-4	148	%	70-130	05.22.2020 09:28	**

Certificate of Analytical Results 662024

Ensolum, Dallas, TX

South Carlsbad Sra.

Sample Id: **MW9** Matrix: Ground Water Date Received:05.19.2020 16:58

Lab Sample Id: 662024-007 Date Collected: 05.19.2020 12:05

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.20.2020 14:00

Seq Number: 3126631

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.922	2.33	0.922	mg/L	05.20.2020 20:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.852	2.33	0.852	mg/L	05.20.2020 20:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.852	2.33	0.852	mg/L	05.20.2020 20:11	U	1
Total TPH	PHC635	<0.852	2.33	0.852	mg/L	05.20.2020 20:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-135	05.20.2020 20:11	
o-Terphenyl	84-15-1	122	%	70-135	05.20.2020 20:11	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: AMF % Moisture:

Analyst: AMF Date Prep: 05.21.2020 17:00

Seq Number: 3126794

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	05.22.2020 10:49	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	05.22.2020 10:49	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	05.22.2020 10:49	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	05.22.2020 10:49	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	05.22.2020 10:49	U	1
Total Xylenes	1330-20-7	<0.000630	0.00200	0.000630	mg/L	05.22.2020 10:49	U	1
Total BTEX		<0.000367	0.00200	0.000367	mg/L	05.22.2020 10:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	05.22.2020 10:49	
4-Bromofluorobenzene	460-00-4	101	%	70-130	05.22.2020 10:49	

Certificate of Analytical Results 662024

Ensolum, Dallas, TX

South Carlsbad Sra.

Sample Id: **MW10** Matrix: Ground Water Date Received:05.19.2020 16:58

Lab Sample Id: 662024-008 Date Collected: 05.19.2020 13:55

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.20.2020 14:00

Seq Number: 3126631

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.915	2.32	0.915	mg/L	05.20.2020 20:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.845	2.32	0.845	mg/L	05.20.2020 20:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.845	2.32	0.845	mg/L	05.20.2020 20:30	U	1
Total TPH	PHC635	<0.845	2.32	0.845	mg/L	05.20.2020 20:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-135	05.20.2020 20:30	
o-Terphenyl	84-15-1	114	%	70-135	05.20.2020 20:30	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: AMF % Moisture:

Analyst: AMF Date Prep: 05.21.2020 17:00

Seq Number: 3126794

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.000500**	0.00200	0.000408	mg/L	05.22.2020 11:09	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	05.22.2020 11:09	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	05.22.2020 11:09	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	05.22.2020 11:09	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	05.22.2020 11:09	U	1
Total Xylenes	1330-20-7	<0.000630	0.00200	0.000630	mg/L	05.22.2020 11:09	U	1
Total BTEX		**0.000500**	0.00200	0.000367	mg/L	05.22.2020 11:09	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.22.2020 11:09	
4-Bromofluorobenzene	460-00-4	148	%	70-130	05.22.2020 11:09	**

Certificate of Analytical Results 662024

Ensolum, Dallas, TX

South Carlsbad Sra.

Sample Id: **MW11S** Matrix: Ground Water Date Received:05.19.2020 16:58

Lab Sample Id: 662024-009 Date Collected: 05.19.2020 12:40

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.20.2020 14:00

Seq Number: 3126631

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**5.37**	2.32	0.917	mg/L	05.20.2020 20:48		1
Diesel Range Organics (DRO)	C10C28DRO	**6.28**	2.32	0.847	mg/L	05.20.2020 20:48		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.847	2.32	0.847	mg/L	05.20.2020 20:48	U	1
Total TPH	PHC635	**11.7**	2.32	0.847	mg/L	05.20.2020 20:48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	05.20.2020 20:48	
o-Terphenyl	84-15-1	115	%	70-135	05.20.2020 20:48	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: AMF % Moisture:

Analyst: AMF Date Prep: 05.21.2020 17:00

Seq Number: 3126794

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.748**	0.100	0.0204	mg/L	05.22.2020 13:50		50
Toluene	108-88-3	**0.0745**	0.100	0.0184	mg/L	05.22.2020 13:50	J	50
Ethylbenzene	100-41-4	**0.142**	0.100	0.0329	mg/L	05.22.2020 13:50		50
m,p-Xylenes	179601-23-1	**0.139**	0.200	0.0315	mg/L	05.22.2020 13:50	J	50
o-Xylene	95-47-6	<0.0321	0.100	0.0321	mg/L	05.22.2020 13:50	U	50
Total Xylenes	1330-20-7	**0.139**	0.100	0.0315	mg/L	05.22.2020 13:50		50
Total BTEX		**1.10**	0.100	0.0184	mg/L	05.22.2020 13:50		50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	05.22.2020 13:50	
4-Bromofluorobenzene	460-00-4	120	%	70-130	05.22.2020 13:50	

Certificate of Analytical Results 662024

Ensolum, Dallas, TX

South Carlsbad Sra.

Sample Id: **MW11D** Matrix: Ground Water Date Received:05.19.2020 16:58

Lab Sample Id: 662024-010 Date Collected: 05.19.2020 13:15

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.20.2020 14:00

Seq Number: 3126631

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.902	2.28	0.902	mg/L	05.20.2020 21:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.833	2.28	0.833	mg/L	05.20.2020 21:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.833	2.28	0.833	mg/L	05.20.2020 21:07	U	1
Total TPH	PHC635	<0.833	2.28	0.833	mg/L	05.20.2020 21:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	05.20.2020 21:07	
o-Terphenyl	84-15-1	118	%	70-135	05.20.2020 21:07	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: AMF % Moisture:

Analyst: AMF Date Prep: 05.21.2020 17:00

Seq Number: 3126794

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00197**	0.00200	0.000408	mg/L	05.22.2020 11:29	J	1
Toluene	108-88-3	**0.000660**	0.00200	0.000367	mg/L	05.22.2020 11:29	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	05.22.2020 11:29	U	1
m,p-Xylenes	179601-23-1	**0.00113**	0.00400	0.000630	mg/L	05.22.2020 11:29	J	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	05.22.2020 11:29	U	1
Total Xylenes	1330-20-7	**0.00113**	0.00200	0.000630	mg/L	05.22.2020 11:29	J	1
Total BTEX		**0.00376**	0.00200	0.000367	mg/L	05.22.2020 11:29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.22.2020 11:29	
4-Bromofluorobenzene	460-00-4	129	%	70-130	05.22.2020 11:29	

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. **ND** Not Detected.

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 Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory 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

QC Summary 662024

Ensolum

South Carlsbad Sra.

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3126631 | Matrix: Water | Date Prep: 05.20.2020
MB Sample Id: 7703773-1-BLK | LCS Sample Id: 7703773-1-BKS | LCSD Sample Id: 7703773-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<0.897	90.9	88.4	97	89.7	99	70-135	1	20	mg/L	05.20.2020 17:06	
Diesel Range Organics (DRO)	<0.829	90.9	90.9	100	91.2	101	70-135	0	20	mg/L	05.20.2020 17:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		124		129		70-135	%	05.20.2020 17:06
o-Terphenyl	112		115		124		70-135	%	05.20.2020 17:06

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3126631 | Matrix: Water | Date Prep: 05.20.2020
MB Sample Id: 7703773-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<0.829	mg/L	05.20.2020 16:48	

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3126631 | Matrix: Ground Water | Date Prep: 05.20.2020
Parent Sample Id: 662024-001 | MS Sample Id: 662024-001 S | MSD Sample Id: 662024-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<0.875	88.6	92.3	104	93.8	106	70-135	2	20	mg/L	05.20.2020 18:02	
Diesel Range Organics (DRO)	<0.808	88.6	91.2	103	92.0	103	70-135	1	20	mg/L	05.20.2020 18:02	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	122		126		70-135	%	05.20.2020 18:02
o-Terphenyl	112		117		70-135	%	05.20.2020 18:02

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3126794 | Matrix: Water | Date Prep: 05.21.2020
MB Sample Id: 7703945-1-BLK | LCS Sample Id: 7703945-1-BKS | LCSD Sample Id: 7703945-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000408	0.100	0.109	109	0.105	105	70-130	4	25	mg/L	05.22.2020 04:08	
Toluene	<0.000367	0.100	0.102	102	0.0946	95	70-130	8	25	mg/L	05.22.2020 04:08	
Ethylbenzene	<0.000657	0.100	0.103	103	0.0945	95	70-130	9	25	mg/L	05.22.2020 04:08	
m,p-Xylenes	<0.000630	0.200	0.198	99	0.177	89	70-130	11	25	mg/L	05.22.2020 04:08	
o-Xylene	<0.000642	0.100	0.104	104	0.0901	90	70-130	14	25	mg/L	05.22.2020 04:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		102		98		70-130	%	05.22.2020 04:08
4-Bromofluorobenzene	92		169	**	149	**	70-130	%	05.22.2020 04:08

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

QC Summary 662024

Ensolum

South Carlsbad Sra.

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3126794 Matrix: Ground Water Date Prep: 05.21.2020

Parent Sample Id: 662127-001 MS Sample Id: 662127-001 S MSD Sample Id: 662127-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000408	0.100	0.0856	86	0.111	111	70-130	26	25	mg/L	05.22.2020 04:48	F
Toluene	<0.000367	0.100	0.0804	80	0.101	101	70-130	23	25	mg/L	05.22.2020 04:48	
Ethylbenzene	<0.000657	0.100	0.0807	81	0.102	102	70-130	23	25	mg/L	05.22.2020 04:48	
m,p-Xylenes	<0.000630	0.200	0.153	77	0.193	97	70-130	23	25	mg/L	05.22.2020 04:48	
o-Xylene	<0.000642	0.100	0.0787	79	0.0980	98	70-130	22	25	mg/L	05.22.2020 04:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		107		70-130	%	05.22.2020 04:48
4-Bromofluorobenzene	144	**	156	**	70-130	%	05.22.2020 04:48

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

Chain of Custody

Work Order No: 402024

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
www.xenco.com Page 1 of 1

Project Manager:	Beaux Jennings	Bill to: (if different)	
Company Name:	~~205~~ W. Wadley Ensolum	Company Name:	
Address:	705 W. Wadley	Address:	
City, State ZIP:	MIDLAND TX	City, State ZIP:	
Phone:	432.230.3344 Email:	bjennings@ensolum.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad Srs.	Turn Around	
Project Number:	03B1226001	Routine ☑	
Project Location	~~03B1226~~ Carlsbad NM	Rush:	
Sampler's Name:	SHANE DILLER	Due Date:	
PO #:	03B1226001	Quote #:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	19.1	Thermometer ID	D9
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (NA)	Correction Factor:	-0.3
Sample Custody Seals:	(Yes) No NA	Total Containers:	

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	BTEX 8015	TPH 8015
	mw 3	GW	5-19-20	905	-	5		x	x
	mw 4	GW	5-19-20	830	-	5		x	x
	mw 5	GW	5-19-20	1135	-	5		x	x
	mw 6	GW	5-19-20	1100	-	5		x	x
	mw 7	GW	5-19-20	1025	-	5		x	x
	mw 8	GW	5-19-20	940	-	5		x	x
	mw 9	GW	5-19-20	1205	-	5		x	x
	mw 10	GW	5-19-20	1355	-	5		x	x
	mw 11S	GW	5-19-20	1240	-	5		x	x
	mw 11D	GW	5-19-20	1315	-	5		x	x

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
~~Zn Acetate+ NaOH: Zn~~

TAT starts the day recevied by the lab, if received by 4:00pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			5/19/20	2			
3				4			
5			1658	6			

Revised Date 022619 Rev. 2019.1


CUSTODY SEAL
Date
Signature

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Ensolum

Date/ Time Received: 05.19.2020 04.58.00 PM

Work Order #: 662024

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.6
#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?	**N/A**
#6*Custody Seals Signed and dated?	**Yes**
#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?	**Yes**

*** 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: 05.20.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 05.20.2020
Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 677651

Ensolum, Dallas, TX

Project Name: South Carlsbad

Project Id: 03B1226001
Contact: Beaux Jennings
Project Location:

Date Received in Lab: Thu 11.12.2020 08:37
Report Date: 11.18.2020 16:59
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	677651-001		677651-002		677651-003		677651-004		677651-005		677651-006	
	Field Id:	MW-3		MW-4		MW-5		MW-6		MW-7		MW-8	
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER	
	Sampled:	11.10.2020 14:30		11.10.2020 13:50		11.11.2020 11:20		11.11.2020 10:25		11.11.2020 09:30		11.10.2020 15:15	
BTEX by EPA 8021B	***Extracted:***	11.16.2020 15:00		11.16.2020 15:00		11.16.2020 15:00		11.16.2020 15:00		11.16.2020 15:00		11.16.2020 15:00	
	Analyzed:	11.16.2020 22:05		11.16.2020 22:30		11.17.2020 00:09		11.17.2020 00:34		11.17.2020 00:59		11.17.2020 01:24	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Benzene		<0.000408	0.00200	<0.000408	0.00200	<0.000408	0.00200	<0.000408	0.00200	<0.000408	0.00200	<0.000408	0.00200
Toluene		0.00102 J	0.00200	0.000640 J	0.00200	<0.000367	0.00200	<0.000367	0.00200	0.000410 J	0.00200	0.000410 J	0.00200
Ethylbenzene		<0.000657	0.00200	<0.000657	0.00200	<0.000657	0.00200	<0.000657	0.00200	<0.000657	0.00200	<0.000657	0.00200
m,p-Xylenes		<0.000630	0.00400	<0.000630	0.00400	<0.000630	0.00400	<0.000630	0.00400	<0.000630	0.00400	<0.000630	0.00400
o-Xylene		<0.000642	0.00200	<0.000642	0.00200	<0.000642	0.00200	<0.000642	0.00200	<0.000642	0.00200	<0.000642	0.00200
Total Xylenes		<0.0006300	0.002000	<0.0006300	0.002000	<0.0006300	0.002000	<0.0006300	0.002000	<0.0006300	0.002000	<0.0006300	0.002000
Total BTEX		0.001020 J	0.002000	0.0006400 J	0.002000	<0.0003670	0.002000	<0.0003670	0.002000	0.0004100 J	0.002000	0.0004100 J	0.002000
TPH by SW8015 Mod	***Extracted:***	11.13.2020 16:00		11.13.2020 16:00		11.13.2020 16:00		11.13.2020 16:00		11.13.2020 16:00		11.13.2020 16:00	
	Analyzed:	11.14.2020 13:39		11.14.2020 14:37		11.14.2020 14:56		11.14.2020 15:15		11.14.2020 15:34		11.14.2020 15:53	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Gasoline Range Hydrocarbons (GRO)		<0.887	2.25	<0.892	2.26	<0.884	2.24	<0.888	2.25	<0.884	2.24	<0.902	2.28
Diesel Range Organics (DRO)		<0.819	2.25	<0.824	2.26	<0.817	2.24	<0.820	2.25	<0.817	2.24	<0.833	2.28
Motor Oil Range Hydrocarbons (MRO)		<0.819	2.25	<0.824	2.26	<0.817	2.24	<0.820	2.25	<0.817	2.24	<0.833	2.28
Total TPH		<0.819	2.25	<0.824	2.26	<0.817	2.24	<0.820	2.25	<0.817	2.24	<0.833	2.28

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 677651

Ensolum, Dallas, TX

Project Name: South Carlsbad

Project Id: 03B1226001
Contact: Beaux Jennings
Project Location:

Date Received in Lab: Thu 11.12.2020 08:37
Report Date: 11.18.2020 16:59
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	677651-007		677651-008		677651-009		677651-010					
	Field Id:	MW-9		MW-10		MW-11S		MW-11D					
	Depth:												
	Matrix:	GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER					
	Sampled:	11.11.2020 12:10		11.11.2020 12:55		11.11.2020 14:05		11.11.2020 13:35					
BTEX by EPA 8021B	***Extracted:***	11.16.2020 15:00		11.16.2020 15:00		11.16.2020 15:00		11.16.2020 15:00					
	Analyzed:	11.17.2020 01:49		11.17.2020 02:14		11.17.2020 03:55		11.17.2020 02:39					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL				
Benzene		<0.000408	0.00200	0.00132 J	0.00200	1.26 D	0.100	0.0544	0.00200				
Toluene		<0.000367	0.00200	<0.000367	0.00200	0.00207	0.00200	0.000760 J	0.00200				
Ethylbenzene		<0.000657	0.00200	<0.000657	0.00200	0.258	0.00200	<0.000657	0.00200				
m,p-Xylenes		<0.000630	0.00400	<0.000630	0.00400	0.0903	0.00400	<0.000630	0.00400				
o-Xylene		<0.000642	0.00200	<0.000642	0.00200	0.00538	0.00200	0.00141 J	0.00200				
Total Xylenes		<0.0006300	0.002000	<0.0006300	0.002000	0.09568	0.002000	0.001410 J	0.002000				
Total BTEX		<0.0003670	0.002000	0.001320 J	0.002000	1.616	0.002000	0.05657	0.002000				
TPH by SW8015 Mod	***Extracted:***	11.13.2020 16:00		11.13.2020 16:00		11.13.2020 16:00		11.13.2020 16:00					
	Analyzed:	11.14.2020 16:13		11.14.2020 16:32		11.14.2020 16:51		11.14.2020 17:10					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL				
Gasoline Range Hydrocarbons (GRO)		<0.916	2.32	0.960 J	2.26	3.81	2.29	<0.895	2.27				
Diesel Range Organics (DRO)		<0.846	2.32	<0.825	2.26	2.10 J	2.29	<0.827	2.27				
Motor Oil Range Hydrocarbons (MRO)		<0.846	2.32	<0.825	2.26	<0.837	2.29	<0.827	2.27				
Total TPH		<0.846	2.32	0.960 J	2.26	5.91	2.29	<0.827	2.27				

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Analytical Report 677651

for

Ensolum

Project Manager: Beaux Jennings

South Carlsbad

03B1226001

11.18.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins | Environment Testing Xenco

11.18.2020

Project Manager: **Beaux Jennings**
Ensolum
2351 W Northwest Highway
Suite 1203
Dallas, TX 75220

Reference: Eurofins Xenco, LLC Report No(s): **677651**
South Carlsbad
Project Address:

Beaux Jennings:

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 Eurofins Xenco, LLC Report Number(s) 677651. 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 Eurofins Xenco, LLC. 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. 677651 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins | Environment Testing Xenco

Sample Cross Reference 677651

Ensolum, Dallas, TX

South Carlsbad

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-3	W	11.10.2020 14:30		677651-001
MW-4	W	11.10.2020 13:50		677651-002
MW-5	W	11.11.2020 11:20		677651-003
MW-6	W	11.11.2020 10:25		677651-004
MW-7	W	11.11.2020 09:30		677651-005
MW-8	W	11.10.2020 15:15		677651-006
MW-9	W	11.11.2020 12:10		677651-007
MW-10	W	11.11.2020 12:55		677651-008
MW-11S	W	11.11.2020 14:05		677651-009
MW-11D	W	11.11.2020 13:35		677651-010

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: Ensolum

Project Name: South Carlsbad

Project ID: *03B1226001*
Work Order Number(s): *677651*

Report Date: *11.18.2020*
Date Received: *11.12.2020*

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3142449 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits Data confirmed by re-analysis. Samples affected are: 7715321-1-BLK,677651-004.

eurofins | Environment Testing Xenco

Certificate of Analytical Results 677651

Ensolum, Dallas, TX

South Carlsbad

Sample Id: **MW-3** Matrix: Ground Water Date Received:11.12.2020 08:37

Lab Sample Id: 677651-001 Date Collected: 11.10.2020 14:30

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 16:00 % Moisture:

Seq Number: 3142366

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.887	2.25	0.887	mg/L	11.14.2020 13:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.819	2.25	0.819	mg/L	11.14.2020 13:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.819	2.25	0.819	mg/L	11.14.2020 13:39	U	1
Total TPH	PHC635	<0.819	2.25	0.819	mg/L	11.14.2020 13:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	11.14.2020 13:39	
o-Terphenyl	84-15-1	113	%	70-135	11.14.2020 13:39	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MNR

Analyst: MNR Date Prep: 11.16.2020 15:00 % Moisture:

Seq Number: 3142449

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	11.16.2020 22:05	U	1
Toluene	108-88-3	**0.00102**	0.00200	0.000367	mg/L	11.16.2020 22:05	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	11.16.2020 22:05	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	11.16.2020 22:05	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	11.16.2020 22:05	U	1
Total Xylenes	1330-20-7	<0.0006300	0.002000	0.0006300	mg/L	11.16.2020 22:05	U	1
Total BTEX		**0.001020**	0.002000	0.0003670	mg/L	11.16.2020 22:05	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.16.2020 22:05	
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.16.2020 22:05	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 677651

Ensolum, Dallas, TX

South Carlsbad

Sample Id: **MW-4** Matrix: Ground Water Date Received:11.12.2020 08:37

Lab Sample Id: 677651-002 Date Collected: 11.10.2020 13:50

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 16:00 % Moisture:

Seq Number: 3142366

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.892	2.26	0.892	mg/L	11.14.2020 14:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.824	2.26	0.824	mg/L	11.14.2020 14:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.824	2.26	0.824	mg/L	11.14.2020 14:37	U	1
Total TPH	PHC635	<0.824	2.26	0.824	mg/L	11.14.2020 14:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	11.14.2020 14:37	
o-Terphenyl	84-15-1	111	%	70-135	11.14.2020 14:37	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MNR

Analyst: MNR Date Prep: 11.16.2020 15:00 % Moisture:

Seq Number: 3142449

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	11.16.2020 22:30	U	1
Toluene	108-88-3	**0.000640**	0.00200	0.000367	mg/L	11.16.2020 22:30	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	11.16.2020 22:30	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	11.16.2020 22:30	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	11.16.2020 22:30	U	1
Total Xylenes	1330-20-7	<0.0006300	0.002000	0.0006300	mg/L	11.16.2020 22:30	U	1
Total BTEX		**0.0006400**	0.002000	0.0003670	mg/L	11.16.2020 22:30	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	11.16.2020 22:30	
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.16.2020 22:30	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 677651

Ensolum, Dallas, TX

South Carlsbad

Sample Id: **MW-5** Matrix: Ground Water Date Received:11.12.2020 08:37

Lab Sample Id: 677651-003 Date Collected: 11.11.2020 11:20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 16:00 % Moisture:

Seq Number: 3142366

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.884	2.24	0.884	mg/L	11.14.2020 14:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.817	2.24	0.817	mg/L	11.14.2020 14:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.817	2.24	0.817	mg/L	11.14.2020 14:56	U	1
Total TPH	PHC635	<0.817	2.24	0.817	mg/L	11.14.2020 14:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	11.14.2020 14:56	
o-Terphenyl	84-15-1	127	%	70-135	11.14.2020 14:56	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MNR

Analyst: MNR Date Prep: 11.16.2020 15:00 % Moisture:

Seq Number: 3142449

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	11.17.2020 00:09	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	11.17.2020 00:09	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	11.17.2020 00:09	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	11.17.2020 00:09	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	11.17.2020 00:09	U	1
Total Xylenes	1330-20-7	<0.0006300	0.002000	0.0006300	mg/L	11.17.2020 00:09	U	1
Total BTEX		<0.0003670	0.002000	0.0003670	mg/L	11.17.2020 00:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	91	%	70-130	11.17.2020 00:09	
4-Bromofluorobenzene	460-00-4	106	%	70-130	11.17.2020 00:09	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 677651

Ensolum, Dallas, TX

South Carlsbad

Sample Id: **MW-6** Matrix: Ground Water Date Received:11.12.2020 08:37

Lab Sample Id: 677651-004 Date Collected: 11.11.2020 10:25

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 16:00 % Moisture:

Seq Number: 3142366

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.888	2.25	0.888	mg/L	11.14.2020 15:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.820	2.25	0.820	mg/L	11.14.2020 15:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.820	2.25	0.820	mg/L	11.14.2020 15:15	U	1
Total TPH	PHC635	<0.820	2.25	0.820	mg/L	11.14.2020 15:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	11.14.2020 15:15	
o-Terphenyl	84-15-1	105	%	70-135	11.14.2020 15:15	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MNR

Analyst: MNR Date Prep: 11.16.2020 15:00 % Moisture:

Seq Number: 3142449

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	11.17.2020 00:34	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	11.17.2020 00:34	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	11.17.2020 00:34	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	11.17.2020 00:34	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	11.17.2020 00:34	U	1
Total Xylenes	1330-20-7	<0.0006300	0.002000	0.0006300	mg/L	11.17.2020 00:34	U	1
Total BTEX		<0.0003670	0.002000	0.0003670	mg/L	11.17.2020 00:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	11.17.2020 00:34	
4-Bromofluorobenzene	460-00-4	53	%	70-130	11.17.2020 00:34	**

eurofins | Environment Testing Xenco

Certificate of Analytical Results 677651

Ensolum, Dallas, TX

South Carlsbad

Sample Id: **MW-7** Matrix: Ground Water Date Received:11.12.2020 08:37

Lab Sample Id: 677651-005 Date Collected: 11.11.2020 09:30

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 16:00 % Moisture:

Seq Number: 3142366

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.884	2.24	0.884	mg/L	11.14.2020 15:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.817	2.24	0.817	mg/L	11.14.2020 15:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.817	2.24	0.817	mg/L	11.14.2020 15:34	U	1
Total TPH	PHC635	<0.817	2.24	0.817	mg/L	11.14.2020 15:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	11.14.2020 15:34	
o-Terphenyl	84-15-1	108	%	70-135	11.14.2020 15:34	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MNR

Analyst: MNR Date Prep: 11.16.2020 15:00 % Moisture:

Seq Number: 3142449

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	11.17.2020 00:59	U	1
Toluene	108-88-3	**0.000410**	0.00200	0.000367	mg/L	11.17.2020 00:59	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	11.17.2020 00:59	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	11.17.2020 00:59	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	11.17.2020 00:59	U	1
Total Xylenes	1330-20-7	<0.0006300	0.002000	0.0006300	mg/L	11.17.2020 00:59	U	1
Total BTEX		**0.0004100**	0.002000	0.0003670	mg/L	11.17.2020 00:59	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.17.2020 00:59	
4-Bromofluorobenzene	460-00-4	99	%	70-130	11.17.2020 00:59	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 677651

Ensolum, Dallas, TX

South Carlsbad

Sample Id: **MW-8** Matrix: Ground Water Date Received:11.12.2020 08:37

Lab Sample Id: 677651-006 Date Collected: 11.10.2020 15:15

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 16:00 % Moisture:

Seq Number: 3142366

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.902	2.28	0.902	mg/L	11.14.2020 15:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.833	2.28	0.833	mg/L	11.14.2020 15:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.833	2.28	0.833	mg/L	11.14.2020 15:53	U	1
Total TPH	PHC635	<0.833	2.28	0.833	mg/L	11.14.2020 15:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	11.14.2020 15:53	
o-Terphenyl	84-15-1	107	%	70-135	11.14.2020 15:53	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MNR

Analyst: MNR Date Prep: 11.16.2020 15:00 % Moisture:

Seq Number: 3142449

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	11.17.2020 01:24	U	1
Toluene	108-88-3	**0.000410**	0.00200	0.000367	mg/L	11.17.2020 01:24	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	11.17.2020 01:24	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	11.17.2020 01:24	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	11.17.2020 01:24	U	1
Total Xylenes	1330-20-7	<0.0006300	0.002000	0.0006300	mg/L	11.17.2020 01:24	U	1
Total BTEX		**0.0004100**	0.002000	0.0003670	mg/L	11.17.2020 01:24	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.17.2020 01:24	
4-Bromofluorobenzene	460-00-4	98	%	70-130	11.17.2020 01:24	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 677651

Ensolum, Dallas, TX

South Carlsbad

Sample Id: **MW-9** Matrix: Ground Water Date Received:11.12.2020 08:37

Lab Sample Id: 677651-007 Date Collected: 11.11.2020 12:10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 16:00 % Moisture:

Seq Number: 3142366

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.916	2.32	0.916	mg/L	11.14.2020 16:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.846	2.32	0.846	mg/L	11.14.2020 16:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.846	2.32	0.846	mg/L	11.14.2020 16:13	U	1
Total TPH	PHC635	<0.846	2.32	0.846	mg/L	11.14.2020 16:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	11.14.2020 16:13	
o-Terphenyl	84-15-1	108	%	70-135	11.14.2020 16:13	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MNR

Analyst: MNR Date Prep: 11.16.2020 15:00 % Moisture:

Seq Number: 3142449

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	11.17.2020 01:49	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	11.17.2020 01:49	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	11.17.2020 01:49	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	11.17.2020 01:49	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	11.17.2020 01:49	U	1
Total Xylenes	1330-20-7	<0.0006300	0.002000	0.0006300	mg/L	11.17.2020 01:49	U	1
Total BTEX		<0.0003670	0.002000	0.0003670	mg/L	11.17.2020 01:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.17.2020 01:49	
4-Bromofluorobenzene	460-00-4	102	%	70-130	11.17.2020 01:49	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 677651

Ensolum, Dallas, TX

South Carlsbad

Sample Id: **MW-10** Matrix: Ground Water Date Received:11.12.2020 08:37

Lab Sample Id: 677651-008 Date Collected: 11.11.2020 12:55

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 16:00 % Moisture:

Seq Number: 3142366

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**0.960**	2.26	0.893	mg/L	11.14.2020 16:32	J	1
Diesel Range Organics (DRO)	C10C28DRO	<0.825	2.26	0.825	mg/L	11.14.2020 16:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.825	2.26	0.825	mg/L	11.14.2020 16:32	U	1
Total TPH	PHC635	**0.960**	2.26	0.825	mg/L	11.14.2020 16:32	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	11.14.2020 16:32	
o-Terphenyl	84-15-1	111	%	70-135	11.14.2020 16:32	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MNR

Analyst: MNR Date Prep: 11.16.2020 15:00 % Moisture:

Seq Number: 3142449

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00132**	0.00200	0.000408	mg/L	11.17.2020 02:14	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	11.17.2020 02:14	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	11.17.2020 02:14	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	11.17.2020 02:14	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	11.17.2020 02:14	U	1
Total Xylenes	1330-20-7	<0.0006300	0.002000	0.0006300	mg/L	11.17.2020 02:14	U	1
Total BTEX		**0.001320**	0.002000	0.0003670	mg/L	11.17.2020 02:14	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.17.2020 02:14	
4-Bromofluorobenzene	460-00-4	111	%	70-130	11.17.2020 02:14	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 677651

Ensolum, Dallas, TX

South Carlsbad

Sample Id: **MW-11S** Matrix: Ground Water Date Received:11.12.2020 08:37

Lab Sample Id: 677651-009 Date Collected: 11.11.2020 14:05

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 16:00 % Moisture:

Seq Number: 3142366

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**3.81**	2.29	0.906	mg/L	11.14.2020 16:51		1
Diesel Range Organics (DRO)	C10C28DRO	**2.10**	2.29	0.837	mg/L	11.14.2020 16:51	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.837	2.29	0.837	mg/L	11.14.2020 16:51	U	1
Total TPH	PHC635	**5.91**	2.29	0.837	mg/L	11.14.2020 16:51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	11.14.2020 16:51	
o-Terphenyl	84-15-1	105	%	70-135	11.14.2020 16:51	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MNR

Analyst: MNR Date Prep: 11.16.2020 15:00 % Moisture:

Seq Number: 3142449

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1.26**	0.100	0.0204	mg/L	11.17.2020 18:01	D	50
Toluene	108-88-3	**0.00207**	0.00200	0.000367	mg/L	11.17.2020 03:55		1
Ethylbenzene	100-41-4	**0.258**	0.00200	0.000657	mg/L	11.17.2020 03:55		1
m,p-Xylenes	179601-23-1	**0.0903**	0.00400	0.000630	mg/L	11.17.2020 03:55		1
o-Xylene	95-47-6	**0.00538**	0.00200	0.000642	mg/L	11.17.2020 03:55		1
Total Xylenes	1330-20-7	**0.09568**	0.002000	0.0006300	mg/L	11.17.2020 03:55		1
Total BTEX		**1.616**	0.002000	0.0003670	mg/L	11.17.2020 18:01		50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.17.2020 03:55	
4-Bromofluorobenzene	460-00-4	122	%	70-130	11.17.2020 03:55	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 677651

Ensolum, Dallas, TX

South Carlsbad

Sample Id: **MW-11D** Matrix: Ground Water Date Received:11.12.2020 08:37

Lab Sample Id: 677651-010 Date Collected: 11.11.2020 13:35

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 16:00 % Moisture:

Seq Number: 3142366

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<0.895	2.27	0.895	mg/L	11.14.2020 17:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<0.827	2.27	0.827	mg/L	11.14.2020 17:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<0.827	2.27	0.827	mg/L	11.14.2020 17:10	U	1
Total TPH	PHC635	<0.827	2.27	0.827	mg/L	11.14.2020 17:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	11.14.2020 17:10	
o-Terphenyl	84-15-1	106	%	70-135	11.14.2020 17:10	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MNR

Analyst: MNR Date Prep: 11.16.2020 15:00 % Moisture:

Seq Number: 3142449

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0544**	0.00200	0.000408	mg/L	11.17.2020 02:39		1
Toluene	108-88-3	**0.000760**	0.00200	0.000367	mg/L	11.17.2020 02:39	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	11.17.2020 02:39	U	1
m,p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	11.17.2020 02:39	U	1
o-Xylene	95-47-6	**0.00141**	0.00200	0.000642	mg/L	11.17.2020 02:39	J	1
Total Xylenes	1330-20-7	**0.001410**	0.002000	0.0006300	mg/L	11.17.2020 02:39	J	1
Total BTEX		**0.05657**	0.002000	0.0003670	mg/L	11.17.2020 02:39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.17.2020 02:39	
4-Bromofluorobenzene	460-00-4	108	%	70-130	11.17.2020 02:39	

eurofins | Environment Testing Xenco

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. **ND** Not Detected.

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 Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory 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

eurofins | Environment Testing Xenco

QC Summary 677651

Ensolum

South Carlsbad

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142366 — Matrix: Water — Date Prep: 11.13.2020
MB Sample Id: 7715236-1-BLK — LCS Sample Id: 7715236-1-BKS — LCSD Sample Id: 7715236-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<0.898	91.0	81.9	90	81.1	89	70-135	1	20	mg/L	11.14.2020 13:01	
Diesel Range Organics (DRO)	<0.830	91.0	81.3	89	77.8	86	70-135	4	20	mg/L	11.14.2020 13:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		97		96		70-135	%	11.14.2020 13:01
o-Terphenyl	121		105		103		70-135	%	11.14.2020 13:01

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142366 — Matrix: Water — Date Prep: 11.13.2020
MB Sample Id: 7715236-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<0.831	mg/L	11.14.2020 12:42	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142366 — Matrix: Ground Water — Date Prep: 11.13.2020
Parent Sample Id: 677651-001 — MS Sample Id: 677651-001 S — MSD Sample Id: 677651-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<0.903	91.4	86.6	95	76.6	84	70-135	12	20	mg/L	11.14.2020 13:58	
Diesel Range Organics (DRO)	<0.834	91.4	83.9	92	73.8	81	70-135	13	20	mg/L	11.14.2020 13:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		91		70-135	%	11.14.2020 13:58
o-Terphenyl	110		96		70-135	%	11.14.2020 13:58

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3142449 — Matrix: Water — Date Prep: 11.16.2020
MB Sample Id: 7715321-1-BLK — LCS Sample Id: 7715321-1-BKS — LCSD Sample Id: 7715321-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000408	0.100	0.111	111	0.116	116	70-130	4	25	mg/L	11.16.2020 15:32	
Toluene	<0.000367	0.100	0.113	113	0.108	108	70-130	5	25	mg/L	11.16.2020 15:32	
Ethylbenzene	<0.000657	0.100	0.112	112	0.116	116	70-130	4	25	mg/L	11.16.2020 15:32	
m,p-Xylenes	<0.000630	0.200	0.226	113	0.233	117	70-130	3	25	mg/L	11.16.2020 15:32	
o-Xylene	<0.000642	0.100	0.108	108	0.112	112	70-130	4	25	mg/L	11.16.2020 15:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		98		101		70-130	%	11.16.2020 15:32
4-Bromofluorobenzene	56	**	94		97		70-130	%	11.16.2020 15:32

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

eurofins | Environment Testing Xenco

QC Summary 677651

Ensolum

South Carlsbad

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3142449 Matrix: Ground Water Date Prep: 11.16.2020

Parent Sample Id: 677560-001 MS Sample Id: 677560-001 S MSD Sample Id: 677560-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000408	0.100	0.118	118	0.0886	89	70-130	28	25	mg/L	11.16.2020 16:22	F
Toluene	<0.000367	0.100	0.109	109	0.101	101	70-130	8	25	mg/L	11.16.2020 16:22	
Ethylbenzene	<0.000657	0.100	0.120	120	0.103	103	70-130	15	25	mg/L	11.16.2020 16:22	
m,p-Xylenes	<0.000630	0.200	0.241	121	0.213	107	70-130	12	25	mg/L	11.16.2020 16:22	
o-Xylene	<0.000642	0.100	0.115	115	0.105	105	70-130	9	25	mg/L	11.16.2020 16:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		100		70-130	%	11.16.2020 16:22
4-Bromofluorobenzene	94		90		70-130	%	11.16.2020 16:22

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

Chain of Custody

Work Order No: 677651

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

www.xenco.com Page 1 of 1

Project Manager:	Brent Jennings	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	705 W. Wadley	Address:	
City, State ZIP:	Midland TX 79705	City, State ZIP:	
Phone:	432-230-3344	Email:	bjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	South Carlsbad	Turn Around	
Project Number:	03B122600i	Routine	☒
P.O. Number:	03B122600i	Rush:	
Sampler's Name:	Shane Dillon	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.1/0.6	Thermometer ID	128	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH 8015	BTEX 8021B												Sample Comments
MW-3	GW	11-10	1430		5	x	x												
MW-4	GW	11-10	1350		5	x	x												
MW-5	GW	11-11	1120		5	x	x												
MW-6	GW	11-11	1025		5	x	x												
MW-7	GW	11-11	0930		5	x	x												
MW-8	GW	11-10	1515		5	x	x												
MW-9	GW	11-11	1210		5	x	x												
MW-10	GW	11-11	1255		5	x	x												
MW-11S	GW	11-11	1405		5	x	x												
MW-11D	GW	11-11	1335		5	x	x												

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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 losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	J Kramer	11/12/20 0837	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Ensolum

Date/ Time Received: 11.12.2020 08.37.00 AM

Work Order #: 677651

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.6
#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?	**N/A**
#6*Custody Seals Signed and dated?	**Yes**
#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?	**Yes**

*** 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: 11.12.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11.13.2020
Jessica Kramer

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 47037

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 47037
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the Annual Groundwater Monitoring Report 2021 for the South Carlsbad Compressor Station: Content Satisfactory 1. Continue to conduct the quarterly groundwater monitoring events as prescribed. 2. Submit the P & A Plan for MW-7 and MW-9, this plan will need approval from the director or state engineer's office. Please upload relative permits into the incident file for this completed work. 3. Submit the 2023 Annual Report by April 1, 2024. 4. Continue with PSH recovery and gauging.	9/18/2023