District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

| Incident ID | nOY1727952679 |
|----------------|---------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | | | 1 | | v |
|--|---|---------------------------|---|------------------------------------|---|
| Responsible | Party: WPX | Energy Permian, | LLC | OGRID: | 246289 |
| Contact Nam | ne: Jim Rale | у | | Contact 7 | Telephone: 575-689-7597 |
| Contact ema | Contact email: Jim.Raley@dvn.com Incident | | | # (assigned by OCD): nOY1727952679 | |
| Contact mail | ing address: | 5315 Buena Vista | Drive, Carlsbad N | IM | |
| | | | Location | of Release S | Source |
| Latitude | | 32.64457 | | | -103.44839 |
| | | | (NAD 83 in dec | imal degrees to 5 dec | imal places) |
| Site Name: T | oro 22-3 | | | Site Type | : Well Pad |
| Date Release | Discovered: | : 9/21/2017 | | API# (if ap | oplicable): 30-025-35253 |
| | | | | | |
| Unit Letter | Section | Township | Range | Сог | • |
| K | 22 | 19S | 35E | L | ea |
| | Materia | ıl(s) Released (Select al | *** | Volume of | ic justification for the volumes provided below) |
| Crude Oi | | Volume Release | | | Volume Recovered (bbls) |
| □ Produced | Water | Volume Release | ` ' | | Volume Recovered (bbls): 110 |
| Is the concentration of dissolved chlorid produced water >10,000 mg/l? | | nloride in the | X Yes ☐ No | | |
| Condensa | ite | Volume Release | d (bbls) | | Volume Recovered (bbls) |
| Natural Gas Volume Released (Mcf) | | | Volume Recovered (Mcf) | | |
| Other (describe) Volume/Weight Released (provide units) | | units) | Volume/Weight Recovered (provide units) | | |
| | this spill is containment | nt. 110 bbls were i | recovered with a va | ic truck. | bbls of produced water were spilled inside porosity (%) + recovered fluids (bbl) |

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|----------------|---------------|---|
| Incident ID | nOY1727952679 | |
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| Application ID | | |

| Was this a major release as defined by | If YES, for what reason(s) does the respon | nsible party consider this a major release? |
|--|---|--|
| 19.15.29.7(A) NMAC? | Unauthorized release of a volume, exclud | ing gases, of 25 barrels or more. |
| ⊠ Yes □ No | | |
| | | |
| If YES, was immediate n | otice given to the OCD? By whom? To wh | nom? When and by what means (phone, email, etc)? |
| Immediate notice was giv | ven by Karolina Blaney, to EMNRD Olivia | Yu, on September 21, 2017 via email. |
| | | |
| | Initial Ro | esponse |
| The responsible | party must undertake the following actions immediatel | y unless they could create a safety hazard that would result in injury |
| The source of the rele | ease has been stopped. | |
| | as been secured to protect human health and | the environment. |
| Released materials ha | ave been contained via the use of berms or c | likes, absorbent pads, or other containment devices. |
| All free liquids and re | ecoverable materials have been removed and | d managed appropriately. |
| If all the actions describe | d above have <u>not</u> been undertaken, explain | why: |
| | | |
| | | |
| | | |
| | | |
| has begun, please attach | a narrative of actions to date. If remedial | emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred elease attach all information needed for closure evaluation. |
| | | best of my knowledge and understand that pursuant to OCD rules and |
| | | fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have |
| failed to adequately investig | ate and remediate contamination that pose a thre | at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws |
| and/or regulations. | r a C-141 report does not reneve the operator or | responsionity for compliance with any other rederal, state, or local laws |
| | Raley | |
| Signature: | , | Date: |
| email:Jim.Raley@c | lvn.com | Telephone: 575-689-7597 |
| | | |
| OCD Only | | |
| Received by: | | Date: |

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|----------------|---------------|----|
| Incident ID | nOY1727952679 | |
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Site Assessment/Characterization

| this information must be provided to the appropriate district office no later than 90 days after the release discovery date. | | | |
|--|------------------------|--|--|
| What is the shallowest depth to groundwater beneath the area affected by the release? | <u><50</u> (ft bgs) | | |
| Did this release impact groundwater or surface water? | ☐ Yes ☒ No | | |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes 🛛 No | | |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ☒ No | | |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☒ No | | |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ☒ No | | |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☒ No | | |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☒ No | | |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☒ No | | |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☒ No | | |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ☒ No | | |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☒ No | | |
| Did the release impact areas not on an exploration, development, production, or storage site? | ☐ Yes ☒ No | | |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | | | |

| Characterization Report Checklist: Each of the following items must be included in the report. |
|---|
| <u> </u> |
| |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. |
| Field data |
| |
| Data table of soil contaminant concentration data |
| Depth to water determination |
| Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release |
| Boring or excavation logs |
| Photographs including date and GIS information |
| Topographic/Aerial maps |
| |
| ☐ Laboratory data including chain of custody |
| - |

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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|-------------|---------------|---|
| Incident ID | nOY1727952679 | |
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| Facility ID | | |

Application ID

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jim Raley Title: Environmental Professional

Signature: Date: 7/26/2023

email: Jim.Raley@dvn.com

Telephone: 575-689-7597

OCD Only

Received by: Shelly Wells

Date: 7/27/2023

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Remediation Plan

| emediation Plan Checklist: Each of the following items must be included in the plan. | | | |
|--|--|--|--|
| Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) | | | |
| eferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. | | | |
| Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility econstruction. | | | |
| Extents of contamination must be fully delineated. | | | |
| Contamination does not cause an imminent risk to human health, the environment, or groundwater. | | | |
| hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD ales and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of ability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, are acceptance water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of esponsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Environmental Professional 7/26/2023 Date: | | | |
| OCD Only | | | |
| eceived by: Shelly Wells Date: 7/27/2023 | | | |
| Approved | | | |
| ignature: Nelson Velez Date: 07/31/2023 | | | |



REMEDIATION WORK PLAN

Toro 22-3
Lea County, New Mexico
Incident Number nOY1727952679

Prepared for: WPX Energy Permian, LLC

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette



SYNOPSIS

In response to a meeting with New Mexico Oil and Conservation Division (NMOCD) for the denial of a Remediation Work Plan (RWP), Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following updated RWP detailing additional delineation soil sampling activities at the Toro 22-3 (Site) associated with an inadvertent release of produced water. The previous RWP was denied on June 20, 2023, due to the following reasons:

- "1. Site assessment has not been fully delineated horizontally or vertically. 2. Site characterization data incomplete. Please provide supporting documentation for those items missing from the list on page 3 of Form C-141 in next submittal or final closure report. 3. Once bullet #1 has been achieved, operator is required to re-submit its revised remediation plan or final closure report. 4. Operator has 90 days (September 18, 2023) to fully delineate, re-submit its remediation plan, or submit final closure report.
- Horizontal delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation."

Etech met with Mr. Nelson Velez from NMOCD on June 22, 2023, following the denial to discuss the Site and recommended action items in an updated report. This updated RWP details the summary of remedial actions that will be completed in accordance with communication and requests from Mr. Nelson Velez:

- Mr. Velez requested the advancement of two additional delineation points within the Area of Concern (AOC) to confirm if the variance requested chloride concentration of 654 milligram per kilogram (mg/kg) for PH01 was representative of that depth. Mr. Velez instructed to advance to the same total depth of 21 feet below ground surface (bgs);
- Mr. Velez agreed that horizontal delineation of the subject release can be defined via sidewall confirmation sidewall sampling; and
- Mr. Velez confirmed that if concentrations were below 600 mg/kg at 21 feet bgs for additional both samples collected, Etech could resubmit an updated RWP with the original proposed work plan which detailed: the removal of the top four feet of impacted soil within the AOC, achieving lateral delineation via sidewall confirmation sampling, installing a 20-mil liner at the base of the 4 foot excavation, and backfilling with clean topsoil.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit K, Section 22, Township 19 South, Range 35 East, in Lea County, New Mexico (32.64457°, -103.44839°) and is associated with oil and gas exploration and production operations on Private Land (**Figure 1** in **Appendix A**).

On September 21, 2017, corrosion of a storage tank resulted in approximately 120 barrels (bbls) of produced water to be released into a tank battery earthen containment. Vacuum trucks were immediately dispatched and recovered approximately 110 bbls of the released fluids. WPX reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on October 6, 2017, and was subsequently assigned Incident Number nOY1727952679. WPX mapped the release extent utilizing a handheld Trimble® Global Positioning System (GPS) unit immediately after discovery and is presented as the AOC on **Figure 2** in **Appendix A**.



Between September 28 and October 2, 2017, WPX removed the production tanks and excavated the top 1-foot of impacted soil from the AOC to mitigate immediate impacts. A Closure Report was then submitted by WPX and denied due to incomplete soil characterization as a result of equipment refusal. The excavation was backfilled and recontoured to pre-existing conditions before returning the production tanks. On June 12, 2018, Souder Miller & Associates (SMA) conducted continued characterization activities to evaluate soil impacts within the AOC. Based on the data summary from those events, additional delineation activities appeared warranted. Previous remediation summaries can be referenced in the original reports submitted to the NMOCD. Since initial response efforts, plugging and abandonment activities at the Site were completed in 2022.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine:
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

The initial desktop review referencing the NMOCD Oil and Gas Map and/or the USGS National Water Information System: Mapper indicated the nearest permitted groundwater well with available data was United States Geological Survey (USGS) well 323832103264901. The location of the well was approximately 675 feet south of the Site and is approximately 4 feet lower in elevation. The most recent depth to groundwater measurement from 1991 was documented at 16.82 feet bgs. However, further review of aerial imagery revealed that the well did not appear to be located at the GPS location designated by USGS (32.6423, -103.4474). As a result, Etech conducted a field verification survey for the well that included walking 50-meter transects within a 500-foot radius of the coordinates. No visual evidence of USGS well 323832103264901 was found. The walking path during field verification was mapped via Trimble® and is included in Figure 2 in Appendix A. Photographic documentation during field verification activities is included in Appendix B.

Another water well identified during the desktop review was New Mexico Office of the State Engineer (NMOSE) well L-04290, located approximately 917 feet north of the Site. Depth to groundwater was documented at 18 feet bgs in 1959. However, records indicate the well was permitted for "secondary recovery of oil" via "water flooding" and has since been capped and is no longer in use. As such, NMOSE well L-04290 appeared to be restricted to oil and gas operations and never used as a "fresh water" well, therefore, the proximity of the well to the Site alone does not deem the well protectable.

The next closest water well with data is NMOSE well L-15155 POD 1, located approximately 1,445 feet south of the Site and approximately 5 feet lower in elevation. The well has a reported depth to groundwater of 35 feet bgs from 2021. Based on this information and findings from the regional water well review, groundwater depth at the Site is estimated to be less than 50 feet bgs. All well records referenced for depth to groundwater determination are included in **Appendix C**.



All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in **Figure 1** in **Appendix A**.

Based on the results from the desktop review and estimated regional depth to groundwater at the Site, the following Closure Criteria was applied:

| Constituents of Concern (COCs) | Laboratory Analytical Method | Closure Criteria |
|---|---|------------------|
| Chloride | Environmental Protection Agency (EPA) 300.0 | 600 mg/kg |
| Total Petroleum Hydrocarbon (TPH) | EPA 8015 M/D | 100 mg/kg |
| Benzene | EPA 8021B | 10 mg/kg |
| Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) | EPA 8021B | 50 mg/kg |

DELINEATION SOIL SAMPLING ACTIVITIES

On January 4, 2023, a third-party environmental contractor was retained to reassess the Site based on information provided by WPX and continue vertical delineation activities within the AOC. Mechanical equipment advanced one pothole (PH01) to a total depth of 21 feet bgs, which was driven by field screening soil samples for volatile organic compounds (VOCs) using a photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Soil samples were collected for laboratory analysis at 5-foot intervals starting at 0.5-foot bgs through 20 feet bgs and 21 feet bgs, where mechanical equipment limitations restricted further advancement. Field screening results and soil descriptions were denoted on a soil sampling log, which is included as **Attachment D**. The location of the delineation soil samples is shown in **Figure 3** in **Appendix A**. Photographic documentation during delineation activities is included in **Attachment B**.

On June 30, 2023, following the meeting and denial issued by NMOCD, Etech advanced two additional potholes (PH02 and PH03) with mechanical equipment equipped with greater vertical reach to further investigate vertical delineation within the AOC. Both potholes were advanced to a total depth of 21 feet bgs, which was driven by field screening soil samples for VOCs and chloride as previously described. Soil samples were collected for laboratory analyses representing the highest observed field screened concentrations and the greatest depth. Field screening results and soil descriptions were denoted on a soil sampling log, which is included as **Attachment D**. The location of the delineation soil samples was added to **Figure 3** in **Appendix A**. Photographic documentation during delineation activities is included in **Attachment B**.

Delineation soil samples were placed directly into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of COCs.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for PH01 and PH02 indicated BTEX and TPH concentrations were below the Site Closure Criteria. BTEX concentrations were also below the Site Closure Criteria for PH03. TPH concentrations exceeded Site Closure Criteria for the soil sample collected at 0.5-foot bgs from sampling location PH03.

Chloride concentrations for PH01 peaked at 15 feet bgs (1,940 mg/kg) and decreased more than 65 percent (%) with further advancement. Chloride concentrations for PH02 and PH03 peaked at 10 feet bgs (1,040 mg/kg and 975 mg/kg, respectively) and decreased below the Site Closure Criteria threshold with advancement.

Remediation Work Plan Incident Number nOY1727952679 Toro 22-3



Laboratory analytical results are summarized in Table 1 as **Attachment E**, and the complete laboratory reports with chain-of-custody documentation is included as **Attachment F**.

PROPOSED REMEDIATION WORK PLAN

Based on the delineation soil sampling results, the following conclusions regarding the release are presented:

- Based on laboratory analytical results, TPH concentrations exceeded Site Closure Criteria at 0.5-foot bgs from the area associated with PH03 location (302 mg/kg) but were below the laboratory detection threshold for soil samples collected below 4 feet bgs; and
- In general, chloride concentrations from delineation soil samples increased with depth between 10 and 15 feet bgs, then decreased with depth to 21 feet bgs where concentrations were below or slightly greater than Site Closure Criteria based on laboratory analytical results.
- BTEX and benzene concentrations were below the laboratory reporting limit for all analyzed soil samples.

Based on the conclusions drawn above, WPX proposes the following remedial corrective actions:

- WPX initially requested a variance to accept chloride concentrations from PH01 at 20 feet (624 mg/kg) and 21 feet bgs (654 mg/kg) for vertical delineation in the original RWP. Due to the minimal difference between the applied Closure Criteria for chloride and concentrations at the terminus of PH01 (elevated by 24 mg/kg and 54 mg/kg, respectively)
- WPX believes that the current delineation is equally protective to groundwater and human health as it would be otherwise, for the following reasons:
 - i) WPX requests a variance to leave chloride impacts between 4 feet and 21 feet bgs in place, where concentrations are characterized between 1,940 mg/kg and 676 mg/kg. If WPX were to excavate to Closure Criteria with a potentially known shallow groundwater table, an excavation at such a depth could serve as a conduit to groundwater throughout the advancement of the excavation. The nearest permitted water well is NMOSE well L-15155 POD 1, located approximately 1,445 feet south of the Site, with a reported depth to groundwater of 35 feet bgs from 2021.
 - ii) Two additional potholes to the east and west of PH01 were advanced to 21 feet bgs and provide further evidence of vertical delineation within the AOC. With similar soil profiles and chloride concentration trends with depth to PH01, chloride concentrations at PH02 and PH03 increased with depth to approximately 10 feet bgs before decreasing with depth. Chloride concentrations for both PH02 and PH03 terminus soil samples were below the Site Closure Criteria. Chloride concentration for PH01 terminus soil sample uncharacteristically increased from 624 mg/kg to 654 mg/kg, which may be attributed to cross contamination from the pothole sidewalls from shallow areas.
 - iii) Additionally, the excavation footprint could potentially go beyond the proposed excavation extent to facilitate the proper safety measures required to excavate to Closure Criteria. As a result, un-impacted grounds would be excavated leading to a greater disruption of surface vegetation.
 - iv) To minimize soil disturbance in order to mitigate impacts to groundwater and vegetation, WPX requests that the top four feet of impacted soil be excavated from the AOC and a 20-mil impermeable liner installed on the excavation floor. The liner will act as a physical barrier to mitigate further migration of chloride impacts into the subsurface. Removal



of the top four feet will address any hydrocarbon exceedances from PH03. The proposed excavation is presented on **Figure 4** in **Appendix A**. The excavation will extend laterally until confirmation soil sample results from the sidewalls of the excavation meet Closure Criteria and will provide horizontal delineation of the release. Confirmation sidewall soil samples will represent a maximum of 200 square feet per soil sample. Samples will be submitted for laboratory analyses of chloride, TPH and BTEX. Residual chloride impacts within the subject release area are defined by samples collected from PH01, PH02, and PH03 from depths ranging from 4 feet to 18 feet bgs. As a result, confirmation floor soil samples will not be collected.

v) Due to the proximity of the AOC to the southern pasture, there is potential for the lateral excavation extent to extend beyond the pad boundary. In such a case, access for remediation or disturbance that occurs offsite will require landowner approval with additional coverage. WPX will prepare and submit documentation for additional work areas before initiating corrective actions.

Once remediation is complete and receipt of soil confirmation results indicates impacted soil is removed, the excavation will be backfilled with clean, locally sourced soil and restored to "as close to its original state" as possible.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Anna Byers at (575) 200-6754 or anna@etechenv.com.

Joseph S. Hernandez

Senior Managing Geologist

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

Anna Byers Senior Geologist

CC:

Inna Byers

Jim Raley, Devon

New Mexico Oil Conservation Division

Remediation Work Plan Incident Number nOY1727952679 Toro 22-3



Appendices:

Appendix A Figure 1: Site Map

Figure 2: Groundwater Well Field Verification

Figure 3: Delineation Soil Sample Locations

Figure 4: Proposed Excavation Area

Appendix B Photographic Log

Appendix D Referenced Well Records

Appendix D Lithologic Sampling Logs

Appendix E Tables

Appendix F Laboratory Analytical Reports & Chain-of-Custody Documentation

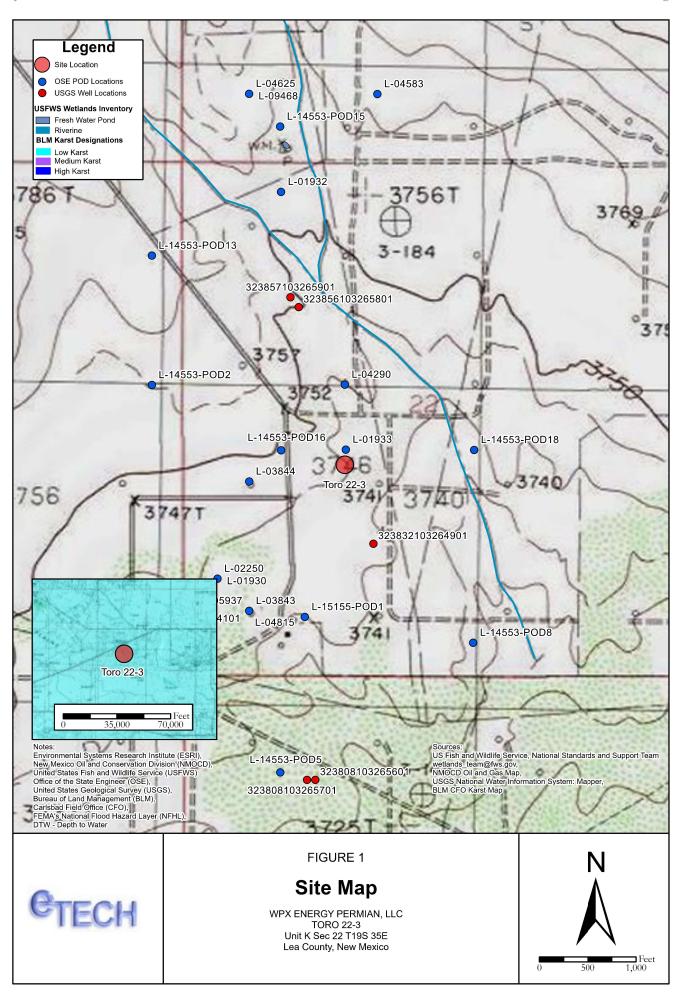
Appendix G NMOCD Correspondence

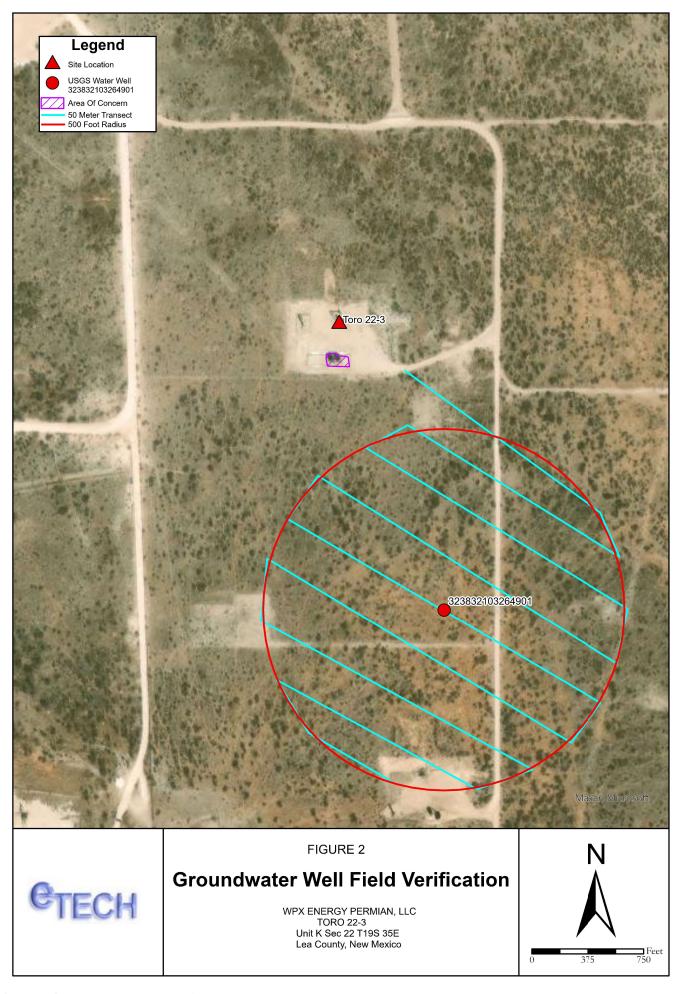
APPENDIX A

Figures

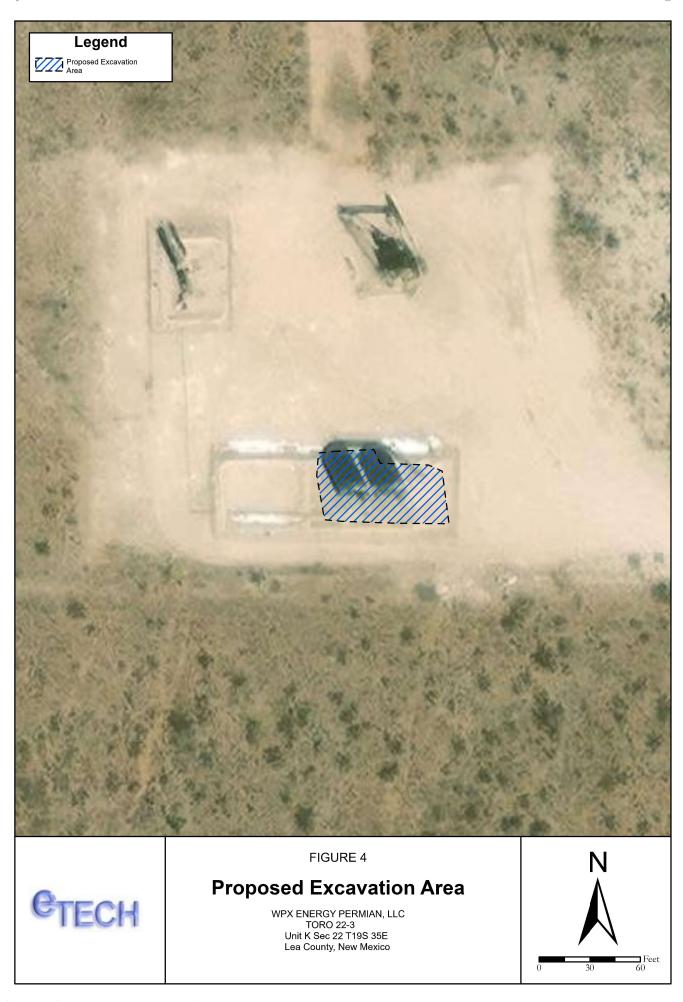
P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213











APPENDIX B

Photographic Log

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



eTECH

PHOTOGRAPHIC LOG

WPX Energy Permian, LLC Site Name: Toro 22-3

Incident Number: nOY1727952679



Photograph 1 Date: 01/04/2023 Description: View of the Site during delineation activies.



Photograph 3 Date: 01/04/2023 Description: View of the Site following delineation activites.



Photograph 2 Date: 01/04/2023 Description: View of the Site during delineation activites.



Photograph 4 Date: 06/30/2023 Description: View of the Site during delineation activities.

CTECH

PHOTOGRAPHIC LOG

WPX Energy Permian, LLC Site Name: Toro 22-3

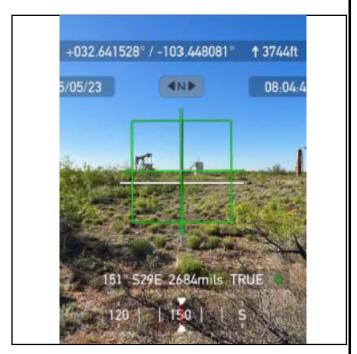
Incident Number: nOY1727952679



Photograph 5 Date: 5/5/2023 Description: Groundwater well field verification.

Photograph 6 Date: 5/5/2023 Description: Groundwater well field verification.





Photograph 7 Date: 5/5/2023 Description: Groundwater well field verification.

Photograph 8 Date: 5/5/2023 Description: Groundwater well field verification.

APPENDIX C

Referenced Well Records

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





National Water Information System: Web Interface

USGS Water Resources

USGS Home Contact USGS Search USGS

| Data Category: | | Geographic Area: | | |
|----------------|---|------------------|---|----|
| Groundwater | ~ | United States | ~ | GO |

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list = • 323832103264901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323832103264901 19S,35E,22,14341

Lea County, New Mexico Latitude 32°38'32", Longitude 103°26'49" NAD27 Land-surface elevation 3,742 feet above NAVD88 The depth of the well is 45 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aguifer.

Output formats

| Table of data | |
|--------------------|--|
| Tab-separated data | |
| Graph of data | |
| Reselect period | |

Released to Imaging: 7/31/2023 7:52:00 AM

| Date | Time | ? Water- level date- time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement | ? Water- level approval status |
|--------------------------|------|------------------------------------|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|-------------------------|--|
| | | | | | | | | | | | |
| 1963-03-19 | | D | 62610 | | 3723.94 | NGVD29 | 1 | Z | | | |
| 1963-03-19 | | D | 62611 | | 3725.50 | NAVD88 | 1 | Z | | | |
| 1963-03-19 | | D | 72019 | 16.50 | | | 1 | Z | | | |
| 1966-03-18 | | D | 62610 | | 3723.43 | NGVD29 | 1 | Z | | | |
| 1966-03-18 | | D | 62611 | | 3724.99 | NAVD88 | 1 | Z | | | |
| 1966-03-18 | | D | 72019 | 17.01 | | | 1 | Z | | | |
| 1971-01-27 | | D | 62610 | | 3723.76 | NGVD29 | 1 | Z | | | |
| 1971-01-27 | | D | | | 3725.32 | NAVD88 | 1 | Z | | | |
| 1971-01-27 | | D | | 16.68 | | | 1 | Z | | | |
| 1976-01-29 | | D | | | 3724.17 | NGVD29 | 1 | Z | | | |
| 1976-01-29 | | D | | | 3725.73 | NAVD88 | 1 | Z | | | |
| 1976-01-29 | | D | | 16.27 | | | 1 | Z | | | |
| 1981-01-23 | | D | | | 3723.90 | NGVD29 | 1 | Z | | | |
| 1981-01-23 | | D | | | 3725.46 | NAVD88 | 1 | Z | | | |
| 1981-01-23 | | D | | 16.54 | | | 1 | Z | | | |
| 1986-02-04 | | D | | | 3723.90 | NGVD29 | 1 | Z | | | |
| 1986-02-04 | | D | | | 3725.46 | NAVD88 | 1 | Z | | | |
| 1986-02-04 | | D | | 16.54 | 2722.62 | NOVE | 1 | Z | | | |
| 1991-04-17 | | D | | | 3723.62 | NGVD29 | 1 | Z | | | |
| 1991-04-17 1991-04-17 | | D D | | 16.82 | 3725.18 | NAVD88 | 1 | Z | | | |

Explanation

| Section | Code | Description |
|--------------------------------|--------|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Parameter code | 62610 | Groundwater level above NGVD 1929, feet |
| Parameter code | 62611 | Groundwater level above NAVD 1988, feet |
| Parameter code | 72019 | Depth to water level, feet below land surface |
| Referenced vertical datum | NAVD88 | North American Vertical Datum of 1988 |

| Section | Code | Description |
|-----------------------------|--------|---|
| Referenced vertical datum | NGVD29 | National Geodetic Vertical Datum of 1929 |
| Status | 1 | Static |
| Method of measurement | Z | Other. |
| Measuring agency | | Not determined |
| Source of measurement | | Not determined |
| Water-level approval status | А | Approved for publication Processing and review completed. |

Questions about sites/data? Feedback on this web site Automated retrievals <u>Help</u> Data Tips Explanation of terms
Subscribe for system changes News

Accessibility FOIA Privacy

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels**

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Policies and Notices

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2023-05-11 16:40:27 EDT

0.29 0.26 nadww01





| 7 | OSE POD NO L- 15155 | |).) | | WELL TAG ID NO 20EC2 |). | | OSE FILE NO | | | |
|-------------------------------|---|-----------------------------|--------------------------------------|--|--|-----------|-------------|---------------------------|--------------------|----------------------------|----------|
| IO | | | | | 20EC2 | | | | | | |
| GENERAL AND WELL LOCATION | WELL OWN George L. | commercial transfer and the | kK Ranch LLC | | | | | PHONE (OPTI 214 738 20 | | | |
| TI | WELL OWN | | GADDRESS | | | | | CITY | | STATE | ZIP |
| WEI | PO Box 1: | 503 | | Name of the Control o | | | | Hobbs | | NM 88241-1 | 503 |
| S S | WELL | | DE | GREES | MINUTES | SECO | | | | | |
| AL. | LOCATIO | N LA | TITUDE | 32 | 38 | 2 | 5 N | | REQUIRED: ONE TEN | TH OF A SECOND | |
| VER | (FROM GI | PS) LO | NGITUDE | -103 | 26 | 5 | 9 W | * DATUM RE | QUIRED: WGS 84 | | |
| 1. GE | 1 | | NG WELL LOCATION TO 2 T 19S R 35E | STREET ADDR | RESS AND COMMO | N LANDM | IARKS – PLS | S (SECTION, TO | WNSHJIP, RANGE) WH | IERE AVAILABLE | |
| | LICENSE NO | | NAME OF LICENSED | DRILLER | | | | | NAME OF WELL DR | ILLING COMPANY | |
| | WD- | 1626 | | | Roy Taylor | | | | Ro | y Taylor Drilling | |
| | DRILLING S 11/19/ | | DRILLING ENDED 11/19/2021 | DEPTH OF CO | MPLETED WELL (F 69' | T) | | E DEPTH (FT) 69' | DEPTH WATER FIR | ST ENCOUNTERED (FT) |) |
| Z | COMPLETE | D WELL IS: | ARTESIAN | DRY HOL | E SHALLO | OW (UNCO | ONFINED) | | STATIC WATER LEV | VEL IN COMPLETED WE 35' | ELL (FT) |
| TIO | DRILLING F | LUID: | AIR | ✓ MUD | ADDITIV | /ES – SPE | CIFY: | | | | |
| DRILLING & CASING INFORMATION | DRILLING M | IETHOD: | ROTARY | HAMMER | CABLE | TOOL | ОТНЕ | R – SPECIFY: | | | |
| NFC | DEPTH | (feet bgl) | BORE HOLE | CASING | MATERIAL ANI | O/OR | CA | SING | CASING | CASING WALL | SLOT |
| NGI | FROM | ТО | DIAM | (include a | GRADE each casing string, | and | CONN | IECTION | INSIDE DIAM. | THICKNESS | SIZE |
| ASI | | | (inches) | | sections of screen | | | YPE ing diameter) | (inches) | (inches) | (inches) |
| 8 0 | 0 | 29' | 12 1/4" | | PVC | | (| Glue | 6.115 | .255 | NA |
| ING | 29' | 69' | 12 1/4" | | PVC | | (| Glue | 5.993 | .316 | .032 |
| ПП | | | | | | | | | | | ļ |
| DR | | - | | | | | | | | | - |
| 7. | | | | | | | | | | | - |
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| | | | | | | | | | OSE DII DE | C 7 2021 PM1:30 | - |
| | | | | | | | | | | | |
| | DEPTH | (feet bgl) | BORE HOLE | LIS | ST ANNULAR SI | EAL MA | TERIAL A | ND | AMOUNT | метно | D OF |
| AL | FROM | TO | DIAM. (inches) | | VEL PACK SIZE | | | | (cubic feet) | PLACEN | |
| ERI | 0 | 20' | 12 1/4" | | Ber | ntonite | | | 11.78 | Pourd | led |
| MAT | 20' | 29' | 12 1/4" | | G | ravel | | | 5.3 | Pourd | led |
| LAR | 29' | 69' | 12 1/4" | | 8/16 S | ilica San | d | | 23.53 | Pourd | led |
| ANNULAR MATERIAL | , | | | | | | | | | | |
| 3. A | | | | | | | | | | | |
| | | | | | | | | | | | |
| | OSE INTER | | | | | | | WR-20 | WELL RECORD & | & LOG (Version 04/3 | 0/19) |
| FILE | NO. | 1515 | 5 | | POD NO |).] | | TRN | 10.69G | 6/7 | |

LOCATION 195-3

PAGE 2 OF 2

| | DEPTH (f | feet bgl) | | CO | LOR AND TYPE OF MATERIAL ENCOUNTS | FRED - | WATER | ESTIMATED |
|------------------------------|------------|-------------|------------------|--------------|--|---------------|------------------------|---|
| | FROM | то | THICKNESS (feet) | INCLUD | E WATER-BEARING CAVITIES OR FRACTU ttach supplemental sheets to fully describe all | URE ZONES | BEARING? (YES / NO) | YIELD FOR WATER- BEARING ZONES (gpm) |
| | 0 | 1' | 1' | | Top Soil | | Y N | |
| | 1' | 10' | 9' | | Caliche | | Y VN | |
| | 10' | 15' | 5' | | Rock | | Y VN | |
| | 15' | 35' | 20' | | Sand Stone | | ✓ Y N | |
| | 35' | 50' | 15' | | Sand | | ✓ Y N | |
| Ţ | 50' | 69' | 19' | | Red Clay | | Y VN | |
| 4. HYDROGEOLOGIC LOG OF WELL | | | | | | | Y N | |
| OF | | | | | | | Y N | |
| 500 | | | | | | | Y N | |
|)) | | | | | | | Y N | |
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| | METHOD U | SED TO ES | STIMATE YIELD | OF WATER-E | BEARING STRATA: | | TAL ESTIMATED | |
| | PUMF | A | IR LIFT | BAILER | OTHER – SPECIFY: | WE | ELL YIELD (gpm): | 0.00 |
| NOI | WELL TEST | | | | OF DATA COLLECTED DURING WELL TES ABLE SHOWING DISCHARGE AND DRAWE | | | |
| VIS | MISCELLAN | NEOUS INF | FORMATION: | | | | | |
| TEST; RIG SUPERVIS | | | | | | USE | DII DEC 7 2021 | PM1:36 |
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| l; RI | | | | | | | | |
| LES | PRINT NAM | IE(S) OF DI | RILL RIG SUPER | VISOR(S) TH | AT PROVIDED ONSITE SUPERVISION OF W | VELL CONSTRU | UCTION OTHER TH | IAN LICENSEE: |
| 'n | | | | | | | | |
| | | | | | | | | |
| 6. SIGNATURE | RECORD OF | THE ABO | VE DESCRIBED | WELL. I ALSO | BEST OF MY KNOWLEDGE AND BELIEF, O CERTIFY THAT THE WELL TAG, IF REQUERMIT HOLDER WITHIN 30 DAYS AFTER TO | UIRED, HAS BE | EN INSTALLED AN | ID THAT THIS |
| SIGN | P | 1. 7 | | | Roy Taylor | | 12/5/2021 | |
| 9 | | SIGNAT | URE OF DRILLE | R / PRINT S | SIGNEE NAME | - | DATE | |
| | | | | | | | | |
| | OSE INTERN | NAL USE | | | POD NO T | VR-20 WELL RI | ECORD & LOG (Ver | rsion 04/30/2019) |

LOCATION 195-35E

WR-15
IMPORTANT—READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM

APPLICATION FOR PERMIT

To Appropriate the Underground Waters of the State of New Mexico

| | LEA COUNTY UNDERGROUND BASIN | , |
|-----------|---|---------------------------------------|
| Ap | plication No. L-4290 Book LC-17 Date Received October 2, 1959 | |
| 1. | Name of applicant C. W. TRAINER | |
| | Postoffice address P. O. Box 2222 ; City or Town Hobbs | ., |
| | County of Lea , State of New Mexico | , |
| 2. | Source of water supply Shallow ground water basin (state whether artesian or shallow ground water basin) | |
| | located in Lea County Underground Basin | · · · · · · · · · · · · · · · · · · · |
| _ | (name of underground stream, valley, artesian basin, etc.) The well is to be located in the $\frac{SW}{4}$ $\frac{SE}{4}$ $\frac{NW}{4}$ | |
| 3. | of section 22 , Township. 19 South , Range 35 East , | |
| | on land owned by State of New Mexico | N.M.P.M. |
| 4 | Description of well: driller Ed Burke ; WD No. 111 ; depth to be drilled 50 | feet: |
| | diamenter (outside) of casing 7inches; type of pump and power plant t | |
| | Pump jack with industrial engine | o be used |
| | | |
| 5. | Quantity of water to be appropriated and beneficially used three (3) | |
| | for 0il well drilling (feet depth or acre feet per acre) | |
| | Acreage to be irrigated None | acres |
| 0. | located and described as follows (describe only lands to be irrigated): | acres |
| | | |
| | Acres Subdivision Sec. Twp. Range Irrigated Owner | |
| | | |
| | | <u>©</u> |
| | | C |
| 3 | 7.5 | 700 |
| | | <u> </u> |
| *** | | Tana |
| | | <u> </u> |
| | | <u>w</u> |
| | (Note: location of well and acreage to be irrigated must be shown on plat on reverse side.) | |
| 7. | Time required to commence construction as soon as possible | ; |
| | Time required to complete the works 1 year | ; |
| | Time required to fully apply water to beneficial use. not required | |
| 8. | Additional statements or explanations (including data on any other water rights appurtenant to above l | ands) |
| | Signal State No. 1 | |
| | This corrected Application is being filed to show the location of the well in the proper place | |
| | SHOW ONE I CONSTITUTE WOLL AND PLOPER PLACE | ,- |
| | | • |
| | | • |
| | I, | h denose |
| | say that I have carefully read the foregoing statement and each and all of the items contained therein, | |
| the | same are true to the best of my knowledge and belief. | |
| | - Mane | applicant |
| | | |
| Sub | secribed and sworn to before me this 17th day of January, A.D., | 19_61_ |
| V | Commission expires January 23, 1963 Virginia Just | 4 |
| y | Commission expires January 23, 1903 | ryone. |





| ber of this permit- | | <u>4290</u> | | | _ Date re | ceived c | orrected_ | · | | | |
|------------------------|-------------|---|-----------|-----------------|-----------|---------------------------------------|-----------|----------|--------------|----------------|---|
| rded in Book | L | C-17 | | | | | | | | | |
| | 4 | 290 | | | - Name | | | | | | |
| ication received— | Jan | | | | | | | filed —— | | | |
| returned for corre | | | | | | | | | | 961 | |
| This application is | approved | i for | | · | | 3 | | 1 // 1 | - | acre feet of | water |
| ect to all prior valid | d and ex | isting ri | ghts to t | he use of | the wat | ers of sa | id under | ground s | | | , , |
| applicant complies v | 1. (| 1 · · · · · · · · · · · · · · · · · · · | | | | | | | | - | |
| This is a | corre | ctive | appli | | | | | | | | |
| actually o | drille | d . | | | 1 | **** | | | | | |
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| Vater shall be appli | rea, to be | enenciai | use and | proois n | led on or | before — | | | | | |
| Vitness my hand a | () | | | | | | | | | | |
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| | ` , | | e indic | S A POTENTO - A | | i i i i i i i i i i i i i i i i i i i | S. I | . Reyr | <u>iolds</u> | State Engine | |
| ATE WELL AND A | ACREAG | Е ТО В | E IRRIC | ATED A | S ACCUI | RATELY | AS POS | SIBLE O | N FOI | LOWING P | T.A.T. |
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| ATE WELL AND A | ACREAG | Е ТО В | E IRRIC | SATED A | S ACCUI | RATELY | AS POS | SIBLE O | By L | LOWING P. N.M. | LAT: LP.M. Nels ervis |
| ATE WELL AND A | ACREAG | Е ТО В | E IRRIC | SATED A | S ACCUI | RATELY | AS POS | SIBLE O | By L | Ollud | LAT: LP.M. Nels ervis |
| ATE WELL AND A | ACREAG | Е ТО В | , Town | ship | S ACCUI | RATELY | AS POS | SIBLE O | By L | LOWING P. N.M. | LAT: LP.M. Nels ervis |
| ATE WELL AND A | ACREAG | Е ТО В | , Town | SATED A | S ACCUI | RATELY | AS POS | SIBLE O | By L | LOWING P. N.M. | LAT: LP.M. Nels ervis |
| ATE WELL AND A | ACREAG | Е ТО В | , Town | ship | S ACCUI | RATELY | AS POS | SIBLE O | By L | LOWING P. N.M. | LAT: LP.M. Nels ervis |
| ATE WELL AND A | ACREAG | Е ТО В | , Town | SATED A | S ACCUI | RATELY | AS POS | SIBLE O | By L | LOWING P. N.M. | LAT: LP.M. Nels ervis |
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| ATE WELL AND A | ACREAG | Е ТО В | , Town | SATED A | S ACCUI | RATELY | AS POS | SIBLE O | By L | LOWING P. N.M. | LAT: LP.M. Nels ervis |
| ATE WELL AND A | ACREAG | Е ТО В | , Town | ship | S ACCUI | RATELY | AS POS | SIBLE O | By L | LOWING P. N.M. | LAT: LP.M. Nels |

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4—Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7—Estimate time reasonably required to commence and to complete project.

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

WP-15

IMPORTANT—READ INSTRUCTIONS ON BACK BEFORE FILLING OUT TH

APPLICATION FOR PERMIT

| | To Appropriate the | : Undergi | round H | Vaters of | the State of | f New Mexic | | POR |
|-----|--|-------------------------|---------------|-------------|------------------------------|--|---------------------|-----------|
| | TEA_COUN | | | | | ': | N. A. | " CE |
| | plication No. L-4290 Boo | | | | | october 2. | 1959 | • |
| | Name of applicant C. W. Trai | | | | | | | |
| | Postoffice address Box 2222 | •• | | | | | | , |
| | County of Lea | | | | | | | |
| | | | | | | | | |
| | Source of water supply S | state whether | er artesian | or shallow | ground water | basin) | <u>'</u> | |
| | located in Lea County | Under | gr oun | d Bas | <u>in</u> sian basin, etc | | | : |
| : | The well is to be located in the | | | | | | E | |
| | of section 22 Tow | | | | | | | |
| | on land owned by State of | | | | • | | | |
| | Description of well: driller Ed Bur | | | | | | | |
| | | | | | , , | | - | |
| | diamenter (outside) of casing 7 Pump jack with i | | | | | | | |
| | Truth lack arou t | TITE S.C. | Clad | بتننق النبة | <u> </u> | | | |
| | | | | | + 1 | (2) | | |
| | Quantity of water to be appropriated | | | | (feet | depth or acre fee | | |
| | forOil well drilling | _ | | | | ." | | _ purpose |
| | Acreage to be irrigated | none | | | | | <u> </u> | acre |
| | located and described as follows (desc | ribe only | lands to | be irriga | ted): | | | |
| | | | | | Acres | | | |
| | Subdivision Se | ec. | Twp. | Range | Irrigated | | Owner | |
| | | | | | · | | 959 | |
| • | | | · | | | | <u> </u> | |
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| | | | | | | | <u>තූ</u> ස | |
| | (Note: location of well and | l acrenge to | be irrigat | ted must be | shown on plat | on reverse side. |) | |
| 1 | Time required to commence constructi | on | 38 80 | An 25 | nossih | ــــــــــــــــــــــــــــــــــــــ | | |
| | Time required to complete the works | | | | • | | | |
| | Time required to fully apply water to b | | | | | | | |
| | Additional statements or explanations | | | | | | - <u> </u> | landa) |
| | | (menang | | • | - | | | iands) |
| | | . 1 | | | | | | |
| | Signal State No | . 1 | <u>,</u> | | | | | |
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| | Signal State No | | | | | | | |
| | Signal State No C. W. Trainer | | | | , being first | duly sworn u | pon my oa | |
| đ | Signal State No | egoing sta | tement | | , being first | duly sworn u | pon my oa | |
| ıd | Signal State No L. C. W. Trainer Bay that I have carefully read the form | egoing sta | tement | | , being first | duly sworn u | pon my oa | , and tha |
| ıd | Signal State No L. C. W. Trainer Bay that I have carefully read the form | egoing sta | tement | | , being first | duly sworn u | pon my oa | , and tha |
| ıdı | Signal State No L. C. W. Trainer Bay that I have carefully read the form | egoing sta ledge and | tement | | , being first and all of the | duly sworn use items contain | pon my os | |

APPROVAL OF THE STATE ENGINEER

| Number of this permit | L-429 | 0 | Date r | eceived cor | rected | | |
|--------------------------|------------------------------------|---|--------------|------------------|-------------|-----------|---|
| Recorded in Book | LC-17 | | Publica | ation of no | tice orde: | red —— | |
| Page | 4290 | | Name | of paper_ | | | |
| Application received- | October 2 | , 1959 | Affidav | vit of publi | cation file | ed | · · · · · · · · · · · · · · · · · · · |
| Date returned for corr | ection | · · · · · · · · · · · · · · · · · · · | Date o | f approval | 0 | ctober | 5, 1959 |
| This application is | approved for | | | 3 | | | acre feet of water |
| subject to all prior val | id and existing rig | ghts to the use | of the wat | ters of said | l undergi | round so | urce and provided that |
| | with all rules and not to excee | - | | | • | | epth of the |
| | (2) Appropri | | | | | | |
| | d oil well d | | | , | | | |
| | of oil well | 1 | | | 1 | | |
| filed on or | before one | year from | the date | e of app | roval | of thi | s permit. |
| | | | | | | | |
| Plugging record | to be filed | on or bef | ore Morek | Oct | ober 5 | 1960 | |
| Water shall be ap | plied to beneficial | use and proofs | filed on o | or before — | | | : |
| This is to certify t | hat I have examin | ned the above a | pplication | for permit | to appr | opriate t | he underground waters |
| of the State of New | Mexico and hereb | y approve the | same subje | ect to the fo | oregoing | provision | s and conditions. |
| Witness my hand | and seal this | 5th | day of | <u> </u> | tober | | , A.D., 19 59 |
| | | | 100 | S. E | . Revn | olds | |
| | | | | | | | |
| LOCATE WELL AND | ACREAGE TO B | E IRRIGATEI | AS ACCU | | | | State Engineer FOLLOWING PLAT: |
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INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4-Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7—Estimate time reasonably required to commence and to complete project.

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

WR-15
IMPORTANT—READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM AM 8: 25

APPLICATION FOR PERMIT

To Appropriate the Underground Waters of the State of New Mexica

| | LEA COUNTY UNDER | GROUND WATER BAS | IN | 1. |
|---|--|-----------------------------|--|-----------------------|
| Application No. L-4290 | Book IC-17 | Date Received | January 9, 196 | 1 ; |
| | C. W. TRAINER | | | S 3 |
| | P. O. Box 2222 | . City or Town | Hobbs _ | II. |
| 表 · · · · · · · · · · · · · · · · · · · | len | | | |
| | | | | 25 |
| . Source of water supply | | sian or shallow ground was | | · |
| located in | Lea County unde | rground basir | | |
| | | am, valley, ertesian basin, | | WHO & |
| . The well is to be located i | in the SW/4 3 | 4, <u>35/4</u> | | |
| | , Township19 | | lange JO-LAST | , N.M.P.M. |
| on land owned by | State of New Me | xico | - 1940 (1971) | |
| Description of well: driller | Ed Burk | WD. No. 111; | depth to be drilled | feet; |
| diamenter (outside) of cas | sing 7" | inches: typ | e of pump and power | plant to be used |
| | Probably with e | | and the first of the second of | |
| | | | | |
| | appropriated and beneficia | 100 net | acre feet m | er annum |
| | and the second of the second o | (| or depth of dore rect per | word, |
| | loed of Pearl Qu | een Field - I | <u>-195, R-35E</u> | purposes. |
| Acreage to be irrigated | Non e | | | acres |
| located and described as f | follows (describe only lands | to be irrigated): | | |
| | | | | |
| Subdivision | Sec. Twp. | Acres Range Irrigate | a (| Owner |
| ; <u>L</u> | State of New Mexico | | | |
| - 05- | Office of State Engineer | | • | |
| · | have lapsed and notice h | | - | |
| 9 3 4 | per the Rules and Regul | • | · . · · · · · · · · · · · · · · · · · · | |
| | Engineer, this permit No. | 14790 | | <u> </u> |
| E 150 | is hereby cancelled this, | 5th day of July | married . | |
| 8 基 | A. D. 1966 S. E. REYNOLDS, State E | <i>U</i> | | market Const |
| 画 | O. D. MATROLDS, Sidle III | | en (ASS) ASSENCED | 323 |
| 至 证法 | By Corant | 6 1h | | |
| (Note: locat | Chief, Water Rights I tion of well and acreage to be in | | dat on reverse side.) | |
| | | l year | | |
| Time required to commend | ce construction | 2 years | | |
| Time required to complete | the works | | | |
| Time required to fully appl | ly water to beneficial use | 2 years | | |
| . Additional statements or e | explanations (including date | on any other water i | rights appurtenant to | above lands) |
| We have filed A | pplication No. | L-4290, Book | LC-17, Octob | er 2, 1959 |
| for this water | well and we use | d it for dril | ling our oil | wells on |
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| T. C. V. T | | | est duly sworn upon | |
| nd say that I have carefully | | | the items/contained | therein, and that |
| he same are true to the best | or my knowledge and belie | | | |
| | | $\mathcal{L}_{\mathcal{U}}$ | Indua. | , applicant |
| | and the second s | <u> </u> | | |
| ubscribed and sworn to befor | e me this 6th | day of | anu ary | A.D., 1961 |
| POSTERIOR BANGER TO DELOF | | | , 40 | -, <i>a</i> , <i></i> |
| v Commission expires Jan | uary 23, 1963 | - Virgeni | V d. Terr | y Pablic |

APPROVAL OF THE STATE ENGINEER

| Recorded in Book | | | | | Publicati | on of no | tice orde | red Ja | w. 19, <u>1</u> | 961 |
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| on or before t | the 30t | h day | of the | e follo | wing m | onth. | rotin | | | |
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| Witness my hand | | | with the | | S. E. | Reyno | lds | | | |
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INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4-Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7—Estimate time reasonably required to commence and to complete project.

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

MEMORANDUM OF RECOMMENDATIONS

FILE NO:

L-4290

DATE: May 13, 1966

TO:

Frank E. Irby, Chief, Water Rights Division

FROM:

Fred H. Hennighausen, Supervisor, District II

SUBJECT:

Cancellation of Permit No. L-4290

APPLICANT:

C. W. Trainer

WELL:

SUBDIVISION

SECTION Township RANGE

SW社SE社NW社

22

19 8 35 E.

USE:

Water flood of Pearl Queen Field in Township 19

South, Range 35 East.

REASON:

Applicant states! "I am going to let this expire

on May 31."

CONSIDERATIONS:

Permit No. 1-4290 was approved May 21, 1962 for 100 acre feet to be used for the secondary recovery of

oil.

Well/No. L-4290 was an existing well.

The applicant returned our letter of April 8, 1966 with a notation that he will let the permit expire

on May 31, 1966.

RECOMMENDATIONS:

It is recommended that Permit No. L-4290 be cancelled

at the request of the applicant.

Fred H. Hennighausen District II Supervisor

ECB*j1 encl.

MEMORANDUM OF RECOMMENDATIONS

FILE NO:

L-4290

DATE: May 18, 1962

TO:

Frank E. Irby, Chief, Water Rights Division

FROM:

Fred H. Hennighausen, Supervisor, District II

SUBJECT:

Application to appropriate shallow waters for water-

flood purposes No. L-4290.

WELL:

REASON:

SUBDIVISION

SECTION

TOWNSHIP

RANGE 35-E

SW4SE4NW4

22

Township 19 South,

Water Flood of Pearl Queen Field -Range 35 East.

CONSIDERATIONS:

1. According to the priority sheet and Yates' figure of available water, Township 19 South, Range 35 East has 133 acre feet of available water before reservation for L-4290.

Application L-4815 is also pending, however, this application was filed after application L-4290. There are no other applications pending in this

township and range

According to the attached inter-office memorandum dated February 23, 1961, a well in this area may expected tb/produce 10-150 gallons per minute which is sufficient for the appropriation requested.

Affidavit of publication and application were forwarded to the Santa Fe office February 29, 1961. Engineering report previously sent to Santa Fe included Files L-4577 through L-4577-X-3, which have been withdrawn, and the applicant has filed a new report for application L-4290.

There are no other permits for the secondary recovery of oil that include the WaNE4 & E2NW4 of Section 22, Township 19 South, Range 35 East.

RECOMMENDATIONS:

Approval is recommended.

ECB*jd encl.

Fred H. Hennighausen Supervisor, District II

C. W. TRAINER

P. O. BOX 2222

PHONE EX 7-1518

205 NORTH LINAM STREET

April 30, 1962

New Mexico State Engineer P. O. Box 1717 Roswell, New Mexico

Re: File L-4290

Your letter of April 27, 1962

Attention: E. C. Barry

Dear Mr. Barry:

I submit this engineering report to supplement my letter of April 27, 1961, as you requested. It is intended to limit and justify the 100 acre feet per annum for use on my four wells in the N/2, Sec. 22-19S-35E and any necessary offset wells to mine.

- 1. The anticipated quantity of oil that will be recovered from my four wells as a result of this flood is 400,000 barrels.
- 2. The estimated quantity of water that will be required to complete this waterflood is 900 acre feet.
- 3. There will probably be 2 injections wells on my lease and 4 offsets.
- 4. The maximum anticipated rate of injection per well is 620 barrels per day.
- 5. The maximum estimated quantity of water to be used in a 12 month period is 100 acre feet.
- 6. Estimated total water that will be recovered and reinjected is 150 acre feet.
- 7. Pearl Queen only.
- 8. My leases are E/2 NW/4 and W/2 NE/4, Sec. 22-19S-35E. Of course, offsetting injection wells must be considered.
- 9. The primary use of this water will be for my own leases and those adjacent to mine.
- 10. The nearest available salt water is 10 miles east, or perhaps 5 miles north.
- 11. Answered in 8 above.
- 12. None of this water is to be used for domestic purposes.

I trust this is the information you require.

Yours very truly NGINEER OFFICE C. W. Trainer

CWT:vp

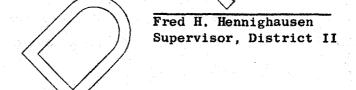
October 17, 1961

Gene Gray

Fred H. Hennighausen

File No. L-4290

Field check of October 12, 1961, disclosed that Well L-4290 was not in use and that a steel cap has been welded over the well casing.



ECB*jd

ROUTING SLIP

| | To: Field Supervisor (Basin) or (County) 1-4296 |
|----------|---|
| | To: Field Supervisor (Basin) or (County) 1-4296 From: Maying Applicant James |
| | Land Location |
| | Field Check Requested For the Following Reasons Date: 10-9-6 |
| | Proof of Completion of Works |
| | Sec. 22 T. 19 R.35 Sec. 15 T. 19 R. 35 |
| • | |
| | Old Well (plugged-retained-reduced) Sharell be. Si=4Sh |
| all co | is not being und the use sunson. |
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| as stars | La Wellowaled in the SESWSW J Lie 15 was being und for oil well drilling. This well is located 150' last of wendmill Aparant 4625 as SWy SWy Vengge Linan (2) |
| | Date: 10/12/6/ By: Jam Hingly |
| | File No. $2-4290$ Location No. |
| | |

FIELD REPORT FOR CEMENTING OF WELLS

| Name of Applicant | | | | | |
|--------------------------------|---------------------------------------|--|---------------------------------------|--|---------------------------------------|
| Name of Well | · ····· | | | · | |
| Driller's Name | | | | | |
| Drilling Method | | | | | |
| CASING DATA: Surfacefee | | | | | 1 |
| Inspected by | | | on | | |
| (Approved)(Rejected)_ | · · · · · · · · · · · · · · · · · · · | | | | |
| Water string fee | et of | inch. | Grade | | |
| Inspected by | | | on | | |
| (Approved)(Rejected)_ | 1 | <u> </u> | <u> </u> | | |
| Oil string fee | et of | inch. | Grade | | |
| Inspected by | | | on | | |
| (Approved)(Rejected)_ | | | `.' | | the grant of the second |
| CEMENTING PROGRAM: Cemented by | | | | | |
| Type of shoe used | | | | | |
| Bottom three joints we | | | | | |
| around casing | sks. | Additive | es | ······································ | |
| Size of hole | Size of o | easing | sks. of | cement: | required |
| Plug pumped down | (| a.m.)(p.m.) | | | |
| Cement circulated | · · · · · · · · · · · · · · · · · · · | No. of | sacks | | |
| Temp. survey ran | (a.m.) | (p.m.) | Ceme | ent at | feet |
| Temp. survey ran | (a.m.) | (p.m.) | Ceme | ent at | feet |
| Checked for shut off_ | | (a.m.) | (p.m.) | | |
| Method used | * *n, | Superv | vised by_ | | |
| Checked for shut off | | (a.m.) | (p.m.) | | |
| Method used | | Supervi | lsed by | | |
| REMARKS: | · | | | · · · · · · · · · · · · · · · · · · · | |
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| Job approved by | | | · · · · · · · · · · · · · · · · · · · | | |
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STATE ENGINEER O. ICE MEMO

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|--------------------------|-------------------|
| TO: Barry | |
| () For Your Information | () Note & Return |
| () For Your Files | () Circulate |
| (X) For Your Handling | () |
| REMARKS: a review | 2 This file |
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| during 196/x _ C | lian advice |
| | Gene |

C. W. TRAINER

* 5. SOX 3232

PERSON AND --- 1951 APR 28 711 81 01

20% NORTH LINAM STREET

April 27, 1961

STATE OF THE STATE

State Engineer Office P. O. Box 810 Roswell, New Mexico

> Re: Files L-4290; L-4577; L-4577~X; L-4577-X-2; L-4577-X-3 Your letter of February 27, 1961

Attention: Mr. E. C. Barry

Gentlemen:

The following answers are submitted in answer to the questions asked in the captioned letter.

- 1. The anticipated quantity of oil that will be recovered as a result of this flood is 12,000,000 barrels.
- 2. The estimated quantity of water that will be required to complete this waterflood is 60,000,000 barrels or 7800 acrefeet.
- 3. There will probably be about 65 injection wells ultimately.
- 4. The maximum anticipated rate of injection per well is 620 barrels per day.
- 5. The maximum estimated quantity of water to be used in a 12 month period is 1940 acre feet. Since my applications only cover 600 acre feet, the answer to this question is 600 acre feet.
- 6. Estimated total water that will be recovered and reinjected is 10,000,000 barrels and this is really a guess. You can see from 5 above though that we will want to reuse all we can.
- 7. Pearl Queen only.
- 8. This field is located in Township 19-South, Range 35-East, Sections 15, 21, 22, 27, 28, 29, 30, 31, 32, 33, and 34; Township 19-South, Range 34-East, Sections 25 and 36; Township 20-South, Range 35-East, Sections 3, 4, 9, and 10.

Page -2-April 27, 1961 C. W. Trainer

- 9. No commitments to date, but I have 8 producing wells in this field and plan to drill about 4 more this year. Shell is making a study now to determine when we should begin a pilot flood.
- 10. Shell is reinjecting their salt water now, about 500 barrels per day as a combination disposal, repressuring project. The nearest available salt water in any quantity is in the Monument Field about 10 miles agat of Pearl.
- 11. Answered in 8 above.
- 12. None of the water appropriated under these applications is to be used for domestic purposes.

I trust this answers all your questions. If I can be of any further help, please advise.

Yours very truly,

C. W. Prainer

CWT:vp

Original of Poor Quality

| | | | | 4 |
|---------|---|-----|--------|---|
| Roswell | , | New | Mexico | |

| Ro | oswell , Nev | Mexico | W R - 20 |
|--|---|------------------------------------|----------------------------|
| Mr. C. W. Trainer | | | (Rev. 9/58) |
| P. O. Box 2222 | | | |
| Hobbs, New Mexico | | | |
| Bar: | | | |
| The following notice shall be published at ap | plicant's expense on | ce a week for three (3) consecut | ive weeks in the |
| Hobbs Flare or Hobbs I | aily News-Sun | a newspa | aper published at |
| Hobbs | | | • |
| · · · · · · · · · · · · · · · · · · · | • | New Mexico, or in any other news | |
| circulation in the county wherein the proposed well from the date hereon, Publisher's affidavit of proof ten (10) days from the date of last publication. Fa application subject to cancellation. | of such publication m | ust be filed with the State Engine | eer not later than |
| The accuracy as to the content of this Notic obligated for any additional expense incurred by the | | | e Engineer is not |
| Neither issuance of this Notice, nor lack of pr neer or approval of the application as requested. | otest thereto, in any | way indicates favorable action b | y the State Engi- |
| | | | |
| | Basin S | upervisor | |
| NOTE TO PUBLISHER: Immediately after last pub | | | of of such publi- |
| cation with the State Engineer, P. O. Box 810 | , | Roswell , New Mexico. | |
| | | | |
| | NOTICE | | |
| State | e Engineer's Off | ice | |
| Number of Application L-4290 | Roswe | 11, N. M.,January 1 | 9 , 19 61 |
| Notice is hereby given that on the9th | day of | January | , 19 <u>61</u> , in |
| | | C W Mantaga | |
| accordance with Chapter 131 of the Session Laws o | of 1931, | C. W. IFRINGS | |
| of | County of | Lea | |
| State ofNew Mexico | | e application to the State Engine | er of New Mexico |
| for a permit to appropriate 100 acre fe | | | |
| Basin by commencing the use of exi | | | |
| SW1SE1NW1 of Section 22, Township | 19 South, Range | 35 East. N.M.P.M. t | o be used |
| for the secondary recovery of oil | by waterflooding | ng in the Pearl Queen | Field, Town- |
| ship 19 South, Range 35 East. | | | • |
| | | | |

Any person, firm, association, corporation, the State of New Mexico or the United States of America, deeming that the granting of the above application will be truly detrimental to their rights in the waters of said surface and/or underground source, may protest in writing the State Engineer's granting approval of said application. The protest shall set forth all protestant's reasons why the application should not be approved and shall be accompanied by proof that a copy of the protest has been served upon the applicant. Said protest and proof of service must be filed with the State Engineer within ten (10) days after the date of the last publication of this notice. Unless protested, the application will be taken up for consideration by the State Engineer on that date, being on or about the

| , 19 | S. E. Re | eynolds | , State Engineer |
|------|----------|---------|------------------|
|------|----------|---------|------------------|

NOTE TO PUBLISHER: Fill in date to correspond to date 10 days after date of last (third) publication. Sundays and holidays not included if this date falls on one of them.

cc: State Engineer

Jim Wright

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STATE ENGINEER OFFICE

| | | 473/62 Page 44 of 13 |
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| JIGHAL. | L'E | NC. 1 |

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

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Section 6

LOG OF WELL

| Depth From | in Feet | Thickness in Feet | Color | Type of Material Encountered |
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| <u>15</u> | 18 | 3 | | Sand Wock |
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Calurary B Bush

APPENDIX D

Lithologic Sampling Logs

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



| | | | | | | | | | Sample Name: PH01 | Date: 01/04/2023 | |
|---------------------|-------------------|-----|-----|------|-----|---|--------------------------------|----------------------|--|----------------------------------|--|
| CTECH | | | | | | | | Site Name: Toro 22-3 | | | |
| | | | | | | | Incident Number: nOY1727952679 | | | | |
| | | | | | | | Job Number: 18136 | | | | |
| | | | | | | LIN | G LOG | • | Logged By: Edyte Konan | Method: PC 210 LC Track Hoe | |
| | ordinates: | | | | | | | | Hole Diameter: N/A | Total Depth: 21 feet (ft) | |
| | | | | | | | | | s and PID for chloride and vapo ow ground surface | or, respectively. Chloride test | |
| Moisture Content | Chloride (ppm) | | | | | Depth (feet bgs) | 1 | - | scriptions/Notes | | |
| | | | | | | + | | SW/SM | | well graded with little silt and | |
| | | | | | | + | | | gravel, fine to coarse, no sta | aining, no odor | |
| Dry | <168 | 0.3 | No | PH01 | 0.5 | # | 0.5 | | @ 20 ft and 21 ft bgs: some | silt, no staining, no odor | |
| Dry | 1831.2 | 0.1 | No | PH01 | 5 | ‡ ‡ | 5 | | | | |
| Dry | 772.8 | 0.4 | No | PH01 | 10 | +++++++++++++++++++++++++++++++++++++++ | 10 | | | | |
| Dry | 1960 | 0.1 | No | PH01 | 15 | + | 15 | | | | |
| Dry | 700 | 0.1 | No | PH01 | 20 | + + //// | 20 | | | | |
| D.m. | E4E 0 | 0.4 | NI- | DUO | 04 | Ţ | 04 | | | | |
| Dry | 515.2 | 0.1 | INO | PH01 | 21 | | 21 Tota | l al Depth: | L 21 ft bas | | |
| | | | | | | _ | | 2 opui. | | | |

| | Sample Name: PH02 Date: 06/30/2023 | | | | | |
|---|---|----------------------------------|--|--|--|--|
| CTECH | Site Name: Toro 22-3 | | | | | |
| | Incident Number: nOY1727952679 | | | | | |
| | Job Number: 18136 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | Logged By: Edyte Konan Method: 336E Track Hoe | | | | | |
| Site Coordinates: 32.644579, -103.448392 | Hole Diameter: N/A | Total Depth: 21 feet (ft) | | | | |
| Comments: Field screening conducted with HACH Chloride Test | • | por, respectively. Chloride test | | | | |

performed with 1:4 dilution factor of soil to distilled water. "BGS" - below ground surface

| Part Part | <u>'</u> | | | | | | | | | <u> </u> |
|---|---------------------|-------------------|----------------|----------|-----------|-----------------|------------|---------------------|---------------------|--|
| Dry 330.4 0.1 No PH02 0.5 To.5 gravel, fine to coarse, no staining, no odor | Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth | (feet bgs) | Depth (feet bgs) | USCS/Rock Symbol | Lithologic Descriptions/Notes |
| Dry 330.4 0.1 No - 1 1 1 1 | | | | | | | | _ | SW/SM | |
| Dry - - No - 2 2 2 | Dry | <168 | 0.0 | No | PH02 | 0.5 | _ | _ 0.5 | | gravel, fine to coarse, no staining, no odor |
| Dry - - No - 2 2 2 | Drv | 330.4 | 0 1 | No | _ | 1 | + | - 1 | | |
| Dry 918.4 0.0 No - 3 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | | | | | | ' | 1 | _ | | @ 20 ft and 21 ft bgs: some silt, no staining, no odor |
| Dry 918.4 0.0 No - 3 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | | | | | | | _] | <u> </u> | | |
| Dry 918.4 0.0 No - 3 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | Dny | | | No | | 2 | 4 | - 2 | | |
| Dry 918.4 0.0 No - 4 - 4 - 4 Dry 918.4 0.0 No PH02 10 - 10 Dry 772.8 0.0 No PH02 18 - 18 Dry No - 19 - 19 Dry - No - 20 - 20 Dry 470.4 0.0 No PH02 21 - 21 | υίν | - | - | INO | - | - | = | | | |
| Dry 918.4 0.0 No - 4 - 4 - 4 Dry 918.4 0.0 No PH02 10 - 10 Dry 772.8 0.0 No PH02 18 - 18 Dry No - 19 - 19 Dry - No - 20 - 20 Dry 470.4 0.0 No PH02 21 - 21 | | | | | | | | - - | | |
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| Dry 772.8 0.0 No PH02 18 18 18 Dry - No - 19 19 Dry - No - 20 20 Dry 470.4 0.0 No PH02 21 21 | Dry | 918.4 | 0.0 | No | - | 4 | _ | _ 4 | | |
| Dry 772.8 0.0 No PH02 18 18 18 Dry - No - 19 19 Dry - No - 20 20 Dry 470.4 0.0 No PH02 21 21 | | | | | | | П | 7/ | | |
| Dry 772.8 0.0 No PH02 18 18 18 Dry - No - 19 19 Dry - No - 20 20 Dry 470.4 0.0 No PH02 21 21 | | | | | | | "] | _ | | |
| Dry No - 19 19 Dry - No - 20 20 Dry 470.4 0.0 No PH02 21 21 | Dry | 918.4 | 0.0 | No | PH02 | 10 | 4 | _ 10 | | |
| Dry No - 19 19 Dry - No - 20 20 Dry 470.4 0.0 No PH02 21 21 | | | | | | | Л | 7/ | | |
| Dry No - 19 19 Dry - No - 20 20 Dry 470.4 0.0 No PH02 21 21 | | | | | | | " | Щ | | |
| Dry No - 20 <u>- 20</u> Dry 470.4 0.0 No PH02 21 21 | Dry | 772.8 | 0.0 | No | PH02 | 18 | _] | 18 | | |
| Dry No - 20 <u>- 20</u> Dry 470.4 0.0 No PH02 21 21 | | | | | | | 4 | - | | |
| Dry No - 20 <u>- 20</u> Dry 470.4 0.0 No PH02 21 21 | | | | | | | - | _ | | |
| Dry 470.4 0.0 No PH02 21 21 | Dry | - | - | No | - | 19 | | 19 | | |
| Dry 470.4 0.0 No PH02 21 21 | | | | | | | \exists | - - | | |
| Dry 470.4 0.0 No PH02 21 21 | | | | | | | \dashv | _ | | |
| Dry 470.4 0.0 No PH02 21 21 | Dry | _ | _ | No | _ | 20 | + | 20 | | |
| | | | | | | | | - - | | |
| | | | | | | | 4 | _ | | |
| | Dry | 470.4 | 0.0 | No | PH02 | 21 | - | - 21 | | |
| | | | | | | | | | al Depth: | 21 ft bgs |

| | Sample Name: PH03 | Date: 06/30/2023 | | | |
|---|-----------------------------------|---------------------------------|--|--|--|
| CTECH | Site Name: Toro 22-3 | | | | |
| | Incident Number: nOY1727952 | 2679 | | | |
| | Job Number: 18136 | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | Logged By: Edyte Konan | Method: 336E Track Hoe | | | |
| Site Coordinates: 32.644579, -103.448392 | Hole Diameter: N/A | Total Depth: 21 feet (ft) | | | |
| Comments: Field screening conducted with HACH Chloride Test Str | ips and PID for chloride and vapo | or, respectively. Chloride test | | | |

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. "BGS" - below ground surface

| ture | ride m) | m) | ing | le ID | ple oth bgs) | oth bgs) | Rock | Little day in Day of all a confliction |
|---------------------|-------------------|----------------|----------|-----------|-------------------------------|---------------------|---------------------|--|
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (feet bgs) | Depth (feet bgs) | USCS/Rock Symbol | Lithologic Descriptions/Notes |
| Dry | 291.2 | 0.0 | No | PH03 | 0.5 | 0.5 | SW/SM | 0-20 ft bgs: SAND, dry, tan, well graded with little silt and gravel, fine to coarse, no staining, no odor |
| Dry | 151.2 | 0.0 | No | - | 1 <u>-</u> - | 1 | | @ 20 ft and 21 ft bgs: some silt, no staining, no odor |
| Dry | - | - | No | - | 2 <u>-</u> | 2 | | |
| Dry | - | - | No | - | 3 _ | 3 | | |
| Dry | 700 | 0.0 | No | - | 4 <u>-</u> | 4 | | |
| Dry | 1,080.8 | 0.0 | No | PH03 | 10 <u>-</u> | 10 10 | | |
| Dry | 772.8 | 0.0 | No | PH03 | 18 <u>-</u> | 18 | | |
| Dry | - | - | No | - | 19 <u>-</u> | 19 | | |
| Dry | - | - | No | - | 20 _ | 20 | | |
| Dry | 291.2 | 0.0 | No | PH03 | 21 | 21 Tota | al Depth: | 21 ft bgs |

APPENDIX E

Tables

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Toro 22-3 Lea County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) | | |
|--|--|----------------------------|--------------------|-----------------------|--------------------|--------------------|--------------------|----------------------|---------------------|--|--|
| NMOCD Table I Clo a Release (NMAC 1 | | or Soils Impacted by | 10 | 50 | NE | NE | NE | 100 | 600 | | |
| | Delineation Soil Samples - Incident Number nOY1727952679 | | | | | | | | | | |
| PH01 | 01/04/2023 | 0.5 | <0.00200 | <0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | 18.4 | | |
| PH01 | 01/04/2023 | 5 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | 1,290 | | |
| PH01 | 01/04/2023 | 10 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | 731 | | |
| PH01 | 01/04/2023 | 15 | <0.00200 | <0.00399 | <49.8 | <49.8 | <49.8 | <49.8 | 1,940 | | |
| PH01 | 01/04/2023 | 20 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | 624 | | |
| PH01 | 01/04/2023 | 21 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | 654 | | |
| PH02 | 06/30/2023 | 0.5 | <0.0250 | <0.0500 | <20.0 | 51.9 | <100 | 51.9 | 77.8 | | |
| PH02 | 06/30/2023 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <50.0 | 1,040 | | |
| PH02 | 06/30/2023 | 18 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <50.0 | 676 | | |
| PH02 | 06/30/2023 | 21 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <50.0 | 254 | | |
| PH03 | 06/30/2023 | 0.5 | <0.0250 | <0.0500 | <20.0 | 161 | 141 | 302 | 267 | | |
| PH03 | 06/30/2023 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <50.0 | 975 | | |
| PH03 | 06/30/2023 | 18 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <50.0 | 802 | | |
| PH03 | 06/30/2023 | 21 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <50.0 | 287 | | |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

 $Concentrations \ in \ \textit{bold} \ exceed \ the \ NMOCD \ Table \ I \ Closure \ Criteria \ and/or \ Reclamation \ Standard \ for \ Soils \ Impacted \ by \ a \ Release$

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 1/6/2023 4:23:10 PM

JOB DESCRIPTION

Toro 22-3H SDG NUMBER 03A1987030

JOB NUMBER

890-3770-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 1/6/2023 4:23:10 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

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Client: Ensolum
Project/Site: Toro 22-3H
Laboratory Job ID: 890-3770-1
SDG: 03A1987030

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Definitions/Glossary

Job ID: 890-3770-1 Client: Ensolum Project/Site: Toro 22-3H SDG: 03A1987030

Qualifiers

GC VOA

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Toro 22-3H

Job ID: 890-3770-1 SDG: 03A1987030

Job ID: 890-3770-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3770-1

Receipt

The samples were received on 1/5/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3770-1), PH01 (890-3770-2), PH01 (890-3770-3), PH01 (890-3770-4), PH01 (890-3770-5) and PH01 (890-3770-6).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-43267 and analytical batch 880-43325 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-43343 and analytical batch 880-43315 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Matrix: Solid

Lab Sample ID: 890-3770-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3770-1

 Project/Site: Toro 22-3H
 SDG: 03A1987030

Client Sample ID: PH01

Date Collected: 01/04/23 13:10 Date Received: 01/05/23 10:30

Sample Depth: 0.5'

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--|---|--|-----|--------------------------|----------|---|---|-----------------------------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:22 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:22 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:22 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:22 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:22 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 13:22 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 13:22 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 01/06/23 15:30 | 1 |
| | | | | | | | | | |
| Method: SW846 8015 NM - Diese | al Range Organ | ics (DRO) ((| 3C) | | | | | | |
| Method: SW846 8015 NM - Diese Analyte | • | ics (DRO) ((| GC) | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | • | Qualifier | • | MDL | Unit mg/Kg | <u>D</u> | Prepared | Analyzed 01/06/23 16:56 | Dil Fac |
| Analyte Total TPH | Result <50.0 | Qualifier U | | MDL | | <u>D</u> | Prepared | | |
| Analyte Total TPH Method: SW846 8015B NM - Dies | Result <50.0 | Qualifier Unics (DRO) | RL 50.0 | | mg/Kg | <u>D</u> | | 01/06/23 16:56 | 1 |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics | Result <50.0 | Qualifier Unics (DRO) Qualifier | | | | | Prepared 01/06/23 08:58 | | 1 Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 | Result sel Range Orga Result <50.0 | Qualifier U nics (DRO) Qualifier U | RL 50.0 | | mg/Kg Unit mg/Kg | | Prepared 01/06/23 08:58 | 01/06/23 16:56 Analyzed 01/06/23 14:02 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <50.0 sel Range Orga Result | Qualifier U nics (DRO) Qualifier U | RL 50.0 | | mg/Kg Unit | | Prepared | 01/06/23 16:56 Analyzed | 1 Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 | Result sel Range Orga Result <50.0 | Qualifier U nics (DRO) Qualifier U | RL 50.0 | | mg/Kg Unit mg/Kg | | Prepared 01/06/23 08:58 | 01/06/23 16:56 Analyzed 01/06/23 14:02 | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result | Qualifier U nics (DRO) Qualifier U U | RL 50.0 (GC) RL 50.0 50.0 | | mg/Kg Unit mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 | 01/06/23 16:56 Analyzed 01/06/23 14:02 01/06/23 14:02 | 1 Dil Fac 1 1 |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | Result | Qualifier U nics (DRO) Qualifier U U | RL 50.0 (GC) RL 50.0 50.0 50.0 | | mg/Kg Unit mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 | 01/06/23 16:56 Analyzed 01/06/23 14:02 01/06/23 14:02 | 1 Dil Fac 1 1 |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result | Qualifier U nics (DRO) Qualifier U U | RL | | mg/Kg Unit mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 01/06/23 08:58 Prepared | 01/06/23 16:56 Analyzed 01/06/23 14:02 01/06/23 14:02 01/06/23 14:02 Analyzed | Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | Result | Qualifier U nics (DRO) Qualifier U U Qualifier | RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | | mg/Kg Unit mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 01/06/23 08:58 Prepared 01/06/23 08:58 | 01/06/23 16:56 Analyzed 01/06/23 14:02 01/06/23 14:02 01/06/23 14:02 Analyzed 01/06/23 14:02 | Dil Fac 1 1 Dil Fac |
| Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | Result | Qualifier U nics (DRO) Qualifier U U Qualifier | RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | MDL | mg/Kg Unit mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 01/06/23 08:58 Prepared 01/06/23 08:58 | 01/06/23 16:56 Analyzed 01/06/23 14:02 01/06/23 14:02 01/06/23 14:02 Analyzed 01/06/23 14:02 | 1 Dil Fac 1 1 1 1 Dil Fac 1 |

Client Sample ID: PH01

Date Collected: 01/04/23 13:40 Date Received: 01/05/23 10:30

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Sample Depth: 5'

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:43 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:43 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:43 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:43 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:43 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 13:43 | |

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Lab Sample ID: 890-3770-2

Matrix: Solid

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 Client: Ensolum
 Job ID: 890-3770-1

 Project/Site: Toro 22-3H
 SDG: 03A1987030

Client Sample ID: PH01 Lab Sample ID: 890-3770-2

Date Collected: 01/04/23 13:40

Date Received: 01/05/23 10:30

Matrix: Solid

Sample Depth: 5'

| Method: SW846 8021B - Volatile | Organic Compounds | (GC) (Continued) |
|--------------------------------|-------------------|------------------|
|--------------------------------|-------------------|------------------|

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|---------------------|----------|----------------|----------------|---------|
| 1 4-Difluorobenzene (Surr) | 95 | 70 - 130 | 01/05/23 13:12 | 01/06/23 13:43 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------------|---------|----------|---|----------|----------------|---------|
| Total BTEX | <0.00399 U | 0.00399 | ma/Ka | | | 01/06/23 15:30 | 1 |

| Mathed CMO4C CO4E NM Discal Dance Occasion (DI | 201 | 1001 | |
|---|-------|--------|--|
| Method: SW846 8015 NM - Diesel Range Organics (DI | くしょいし | ((36.) | |
| | | | |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | | ma/Ka | | | 01/06/23 16:56 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| | | () | (/ | | | | | | |
|---|-----------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 14:23 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 14:23 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 14:23 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 105 | 70 - 130 | 01/06/23 08:58 | 01/06/23 14:23 | 1 |
| o-Terphenyl | 116 | 70 - 130 | 01/06/23 08:58 | 01/06/23 14:23 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit |) | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|------|----------|----------------|---------|
| Chloride | 1290 | | 5.00 | | mg/Kg | | | 01/06/23 14:57 | 1 |

Client Sample ID: PH01 Lab Sample ID: 890-3770-3

Date Collected: 01/04/23 14:10 Date Received: 01/05/23 10:30

Sample Depth: 10'

| Mothodi | CIMOAC GOOAD | Valatile Or | ganic Compour | de (CC) |
|-----------|--------------|---------------|---------------|----------|
| i wethod: | 5W846 8U21B | - volatile Ur | danic Compour | ias (GC) |

| Mictilod. Offoro 002 ID - Volut | ne Organie Gomp | ounus (CC) | , | | | | | | |
|---------------------------------|-----------------|------------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:03 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:03 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:03 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:03 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:03 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 14:03 | 1 |
| 1 A-Diffuorobenzene (Surr) | 90 | | 70 130 | | | | 01/05/23 13:12 | 01/06/23 14:03 | 1 |

| ı | 4-bromonuorobenzene (Surr) | 110 | 70 - 130 | 01/05/23 13.12 | 01/06/23 14.03 | I |
|---|----------------------------|-----|----------|----------------|----------------|---|
| | 1,4-Difluorobenzene (Surr) | 99 | 70 - 130 | 01/05/23 13:12 | 01/06/23 14:03 | 1 |
| | | | | | | |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/06/23 15:30 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|----------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 01/06/23 16:56 | 1 |

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-3770-1 Project/Site: Toro 22-3H SDG: 03A1987030

Client Sample ID: PH01

Lab Sample ID: 890-3770-3 Date Collected: 01/04/23 14:10 Matrix: Solid Date Received: 01/05/23 10:30

Sample Depth: 10'

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 14:45 | 1 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 14:45 | 1 |
| C10-C28) | | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 14:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 106 | | 70 - 130 | | | | 01/06/23 08:58 | 01/06/23 14:45 | 1 |
| o-Terphenyl | 118 | | 70 - 130 | | | | 01/06/23 08:58 | 01/06/23 14:45 | 1 |

Analyte Result Qualifier MDL Unit Dil Fac RL D Prepared Analyzed 5.00 01/06/23 15:02 731 Chloride mg/Kg

Client Sample ID: PH01 Lab Sample ID: 890-3770-4

Date Collected: 01/04/23 14:40 Matrix: Solid

Date Received: 01/05/23 10:30

Sample Depth: 15'

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|------------|------------------------------|----------|--|---|---------------------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:24 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:24 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:24 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:24 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:24 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 120 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 14:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 14:24 | 1 |
| | | | | | | | | | |
| Total BTEX Method: SW846 8015 NM - Diese | | ics (DRO) (| | | mg/Kg | _ | | 01/06/23 15:30 | |
| Method: SW846 8015 NM - Diese Analyte | el Range Organ Result | ics (DRO) (C | GC) | MDL | Unit | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH | Range Organ Result <49.8 | ics (DRO) (Gualifier | RL 49.8 | MDL | | <u>D</u> | Prepared | | |
| Method: SW846 8015 NM - Diese Analyte | el Range Organ Result <49.8 sel Range Organ | ics (DRO) (Gualifier | RL 49.8 | MDL MDL | Unit mg/Kg | <u>D</u> | Prepared Prepared | Analyzed | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies | el Range Organ Result <49.8 sel Range Organ | Qualifier Unics (DRO) Qualifier | RL 49.8 (GC) | | Unit mg/Kg | | | Analyzed 01/06/23 16:56 | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics | Range Organ Result <49.8 sel Range Orga Result | ics (DRO) ((Qualifier U nics (DRO) Qualifier U | GC) RL 49.8 (GC) RL | | Unit mg/Kg | | Prepared | Analyzed 01/06/23 16:56 Analyzed | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result 49.8 Seel Range Organ Result Result 49.8 49.8 49.8 | ics (DRO) ((Qualifier U nics (DRO) Qualifier U | (GC) RL 49.8 (GC) RL 49.8 | | Unit mg/Kg Unit mg/Kg | | Prepared 01/06/23 08:58 | Analyzed 01/06/23 16:56 Analyzed 01/06/23 15:06 | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result 49.8 Seel Range Organ Result <49.8 <49.8 <49.8 | ics (DRO) ((Qualifier U nics (DRO) Qualifier U U | GC) RL 49.8 (GC) RL 49.8 49.8 | | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 | Analyzed 01/06/23 16:56 Analyzed 01/06/23 15:06 01/06/23 15:06 | 1 Dil Fac 1 1 |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result 49.8 Seel Range Organ Result <49.8 <49.8 <49.8 <49.8 | ics (DRO) ((Qualifier U nics (DRO) Qualifier U U | GC) RL 49.8 (GC) RL 49.8 49.8 49.8 | | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 | Analyzed 01/06/23 16:56 Analyzed 01/06/23 15:06 01/06/23 15:06 | Dil Fac Dil Fac 1 |

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1/6/2023

Job ID: 890-3770-1

Client: Ensolum Project/Site: Toro 22-3H SDG: 03A1987030

Client Sample ID: PH01 Lab Sample ID: 890-3770-4

Date Collected: 01/04/23 14:40 Matrix: Solid Date Received: 01/05/23 10:30

Sample Depth: 15'

| Method: MCAWW 300.0 - Anions, Id | on Chromato | graphy - Sol | luble | | | | | | |
|----------------------------------|-------------|--------------|-------|-----|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 1940 | | 25.2 | | mg/Kg | | | 01/06/23 15:07 | 5 |

Client Sample ID: PH01 Lab Sample ID: 890-3770-5

Date Collected: 01/04/23 15:10 Date Received: 01/05/23 10:30

Sample Depth: 20'

| | - | | | |
|---------|------------|---------------|---------|----------|
| | | | | |
| | | | | |
| | | | | |
| | | | | _ |
| Mathadi | C/MO/6 000 | 1B - Volatile | Organia | Compound |
| | | | | |

| Method: SW846 8021B - Volati | le Organic Comp | ounds (GC) |) | | | | | | |
|------------------------------|-----------------|------------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:45 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:45 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:45 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:45 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:45 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 14:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 124 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 14:45 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 14:45 | 1 |

| Method: TAL SOP Total BTEX - Tot | tal BTEX Calc | ulation | | | | | | | |
|----------------------------------|---------------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/06/23 15:30 | 1 |

| Method: SW846 8015 NM - Diesel F | Range Organi | ics (DRO) (G | SC) | | | | | | |
|----------------------------------|--------------|--------------|------|-----|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 01/06/23 16:56 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 15:28 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 15:28 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 15:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 101 | | 70 - 130 | | | | 01/06/23 08:58 | 01/06/23 15:28 | 1 |
| o-Terphenyl | 112 | | 70 - 130 | | | | 01/06/23 08:58 | 01/06/23 15:28 | 1 |

| Method: MCAWW 300.0 - Anions, Id | on Chromato | graphy - So | luble | | | | | | |
|----------------------------------|-------------|-------------|-------|-----|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 624 | | 5.02 | | mg/Kg | | | 01/06/23 15:12 | 1 |

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3770-6

Client Sample Results

 Client: Ensolum
 Job ID: 890-3770-1

 Project/Site: Toro 22-3H
 SDG: 03A1987030

Client Sample ID: PH01

Date Collected: 01/04/23 15:40 Date Received: 01/05/23 10:30

Sample Depth: 21'

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--|--|---|-----|------------------------------------|----------|--|--|-----------------------------|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 15:05 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 15:05 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 15:05 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 15:05 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 15:05 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 15:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 126 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 15:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 15:05 | 1 |
| Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 01/06/23 15:30 | 1 |
| | | | | | g/i.tg | | | 01/00/20 10:00 | • |
| Method: SW846 8015 NM - Diese Analyte | el Range Organ Result | ics (DRO) (C | GC) | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte | el Range Organ | ics (DRO) (C | GC) | MDL | | <u>D</u> | Prepared | | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH | Result <50.0 | ics (DRO) (Country of the Country of | GC) RL 50.0 | MDL | Unit | <u>D</u> | Prepared | Analyzed | |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies | el Range Organ Result <50.0 sel Range Organ | ics (DRO) (Country of the Country of | GC) RL 50.0 | MDL | Unit mg/Kg | D | Prepared Prepared | Analyzed | |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics | el Range Organ Result <50.0 sel Range Organ | Qualifier Unics (DRO) Qualifier | RL 50.0 | | Unit mg/Kg | | <u> </u> | Analyzed 01/06/23 16:56 | 1 |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | el Range Organ Result <50.0 sel Range Organ Result | Qualifier U nics (DRO) Qualifier U | (GC) RL RL | | Unit mg/Kg | | Prepared | Analyzed 01/06/23 16:56 Analyzed | 1 Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | el Range Organ Result <50.0 sel Range Orga Result <50.0 | cos (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier U | (GC) RL 50.0 RL 50.0 | | Unit mg/Kg Unit mg/Kg | | Prepared 01/06/23 08:58 | Analyzed 01/06/23 16:56 Analyzed 01/06/23 16:11 | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 | cos (DRO) (On Qualifier Unics (DRO) Qualifier U | GC) RL 50.0 (GC) RL 50.0 50.0 | | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 | Analyzed 01/06/23 16:56 Analyzed 01/06/23 16:11 01/06/23 16:11 | 1 Dil Fac 1 |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0 | cos (DRO) (On Qualifier Unics (DRO) Qualifier U | GC) RL 50.0 (GC) RL 50.0 50.0 50.0 | | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 | Analyzed 01/06/23 16:56 Analyzed 01/06/23 16:11 01/06/23 16:11 | 1 Dil Fac 1 1 |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <80.0 %Recovery | cos (DRO) (On Qualifier Unics (DRO) Qualifier U | GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits | | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 01/06/23 08:58 Prepared | Analyzed 01/06/23 16:56 Analyzed 01/06/23 16:11 01/06/23 16:11 Analyzed | Dil Fac 1 1 Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery 103 117 | cos (DRO) (Control of the control of | GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 01/06/23 08:58 Prepared 01/06/23 08:58 | Analyzed 01/06/23 16:56 Analyzed 01/06/23 16:11 01/06/23 16:11 Analyzed 01/06/23 16:11 | 1 Dil Fac 1 1 1 1 Dil Fac 1 |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anions Analyte | el Range Organ | cos (DRO) (Control of the control of | GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | | Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg | | Prepared 01/06/23 08:58 01/06/23 08:58 01/06/23 08:58 Prepared 01/06/23 08:58 | Analyzed 01/06/23 16:56 Analyzed 01/06/23 16:11 01/06/23 16:11 Analyzed 01/06/23 16:11 | 1 Dil Fac 1 1 1 1 Dil Fac 1 |

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3770-1

 Project/Site: Toro 22-3H
 SDG: 03A1987030

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | Percent Surrogate Recovery (Acceptance Limits) |
|------------------------|---|---|---|
| | BFB1 | DFBZ1 | |
| Client Sample ID | (70-130) | (70-130) | |
| Matrix Spike | 102 | 96 | |
| Matrix Spike Duplicate | 99 | 92 | |
| PH01 | 118 | 96 | |
| PH01 | 112 | 95 | |
| PH01 | 118 | 99 | |
| PH01 | 120 | 102 | |
| PH01 | 124 | 101 | |
| PH01 | 126 | 97 | |
| Lab Control Sample | 95 | 95 | |
| Lab Control Sample Dup | 97 | 96 | |
| Method Blank | 102 | 87 | |
| | | | |
| | Matrix Spike Matrix Spike Duplicate PH01 PH01 PH01 PH01 PH01 PH01 Lab Control Sample Lab Control Sample Dup | Client Sample ID (70-130) Matrix Spike 102 Matrix Spike Duplicate 99 PH01 118 PH01 112 PH01 118 PH01 120 PH01 124 PH01 126 Lab Control Sample 95 Lab Control Sample Dup 97 Method Blank 102 | Client Sample ID (70-130) (70-130) Matrix Spike 102 96 Matrix Spike Duplicate 99 92 PH01 118 96 PH01 112 95 PH01 118 99 PH01 120 102 PH01 124 101 PH01 126 97 Lab Control Sample 95 95 Lab Control Sample Dup 97 96 Method Blank 102 87 |

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|----------------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-3758-A-101-D MS | Matrix Spike | 101 | 96 | |
| 890-3758-A-101-E MSD | Matrix Spike Duplicate | 102 | 98 | |
| 890-3770-1 | PH01 | 126 | 130 | |
| 890-3770-2 | PH01 | 105 | 116 | |
| 890-3770-3 | PH01 | 106 | 118 | |
| 890-3770-4 | PH01 | 105 | 117 | |
| 890-3770-5 | PH01 | 101 | 112 | |
| 890-3770-6 | PH01 | 103 | 117 | |
| LCS 880-43343/2-A | Lab Control Sample | 128 | 117 | |
| LCSD 880-43343/3-A | Lab Control Sample Dup | 125 | 123 | |
| MB 880-43343/1-A | Method Blank | 150 S1+ | 137 S1+ | |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3770-1 SDG: 03A1987030 Project/Site: Toro 22-3H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43267/5-A

Lab Sample ID: LCS 880-43267/1-A

Matrix: Solid

Analysis Batch: 43325

Matrix: Solid Analysis Batch: 43325 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43267

| | MB | MB | | | | | | | |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 10:51 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 10:51 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 10:51 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 10:51 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 10:51 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 10:51 | 1 |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prep | pared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|---------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | 01/05/2 | 23 13:12 | 01/06/23 10:51 | 1 |
| 1,4-Difluorobenzene (Surr) | 87 | | 70 - 130 | 01/05/2 | 23 13:12 | 01/06/23 10:51 | 1 |

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43267

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.1011 | | mg/Kg | | 101 | 70 - 130 | |
| Toluene | 0.100 | 0.09684 | | mg/Kg | | 97 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.08911 | | mg/Kg | | 89 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1927 | | mg/Kg | | 96 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09524 | | mg/Kg | | 95 | 70 - 130 | |
| | | | | | | | | |

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 95 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 95 | 70 - 130 |

Lab Sample ID: LCSD 880-43267/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 43325

Prep Type: Total/NA Prep Batch: 43267

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.1062 | | mg/Kg | | 106 | 70 - 130 | 5 | 35 |
| Toluene | 0.100 | 0.1022 | | mg/Kg | | 102 | 70 - 130 | 5 | 35 |
| Ethylbenzene | 0.100 | 0.09183 | | mg/Kg | | 92 | 70 - 130 | 3 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1960 | | mg/Kg | | 98 | 70 - 130 | 2 | 35 |
| o-Xylene | 0.100 | 0.09738 | | mg/Kg | | 97 | 70 - 130 | 2 | 35 |

LCSD LCSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 97 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 96 | 70 - 130 |

Lab Sample ID: 880-23201-A-1-H MS

Matrix: Solid

Analysis Batch: 43325

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 43267

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------|-----------|-----------|--------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00199 | U | 0.0998 | 0.08556 | | mg/Kg | | 85 | 70 - 130 | |
| Toluene | < 0.00199 | U | 0.0998 | 0.07942 | | mg/Kg | | 80 | 70 - 130 | |

QC Sample Results

 Client: Ensolum
 Job ID: 890-3770-1

 Project/Site: Toro 22-3H
 SDG: 03A1987030

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-23201-A-1-H MS

Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 43325 Prep Batch: 43267

| | Sample | Sample | Spike | MS | MS | | | | %Rec |
|---------------------|----------|-----------|--------------|---------|-----------|-------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Ethylbenzene | <0.00199 | U F1 | 0.0998 | 0.06868 | F1 | mg/Kg | | 69 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.1508 | | mg/Kg | | 76 | 70 - 130 |
| o-Xylene | <0.00199 | U | 0.0998 | 0.07521 | | mg/Kg | | 75 | 70 - 130 |
| | | | | | | | | | |

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 102
 70 - 130

 1,4-Difluorobenzene (Surr)
 96
 70 - 130

Lab Sample ID: 880-23201-A-1-I MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 43325 Prep Batch: 43267

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00199 | U | 0.100 | 0.09575 | | mg/Kg | | 95 | 70 - 130 | 11 | 35 |
| Toluene | <0.00199 | U | 0.100 | 0.08902 | | mg/Kg | | 89 | 70 - 130 | 11 | 35 |
| Ethylbenzene | <0.00199 | U F1 | 0.100 | 0.07687 | | mg/Kg | | 77 | 70 - 130 | 11 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.1675 | | mg/Kg | | 84 | 70 - 130 | 10 | 35 |
| o-Xylene | <0.00199 | U | 0.100 | 0.08216 | | mg/Kg | | 81 | 70 - 130 | 9 | 35 |

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 99
 70 - 130

 1,4-Difluorobenzene (Surr)
 92
 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

MR MR

Lab Sample ID: MB 880-43343/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 43315 Prep Batch: 43343

| | IVID | IAID | | | | | | | |
|-----------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:18 | 01/06/23 08:29 | 1 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:18 | 01/06/23 08:29 | 1 |
| C10-C28) | | | | | | | | | |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:18 | 01/06/23 08:29 | 1 |

| | МВ | MB | | | | |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 150 | S1+ | 70 - 130 | 01/06/23 08:18 | 01/06/23 08:29 | 1 |
| o-Terphenyl | 137 | S1+ | 70 - 130 | 01/06/23 08:18 | 01/06/23 08:29 | 1 |

Lab Sample ID: LCS 880-43343/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43315 Prep Batch: 43343

| | Spike | LCS | LCS | | | | %Rec | |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | 1000 | 1055 | - | mg/Kg | | 106 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 1009 | | mg/Kg | | 101 | 70 - 130 | |
| C10-C28) | | | | | | | | |

Job ID: 890-3770-1 Client: Ensolum Project/Site: Toro 22-3H SDG: 03A1987030

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

Lab Sample ID: LCS 880-43343/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 43315

Prep Type: Total/NA

Prep Batch: 43343

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 128 70 - 130 o-Terphenyl 117 70 - 130

Lab Sample ID: LCSD 880-43343/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 43315

Prep Type: Total/NA

Prep Batch: 43343

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 994.1 99 70 - 1306 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1020 102 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 125 70 - 130 1-Chlorooctane 123 70 - 130 o-Terphenyl

Lab Sample ID: 890-3758-A-101-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 43315

Prep Type: Total/NA

Prep Batch: 43343

Sample Sample MS MS Spike Analyte Added Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 998 1138 mg/Kg 112 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 90.7 998 1021 mg/Kg 93 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 101 o-Terphenyl 96 70 - 130

Lab Sample ID: 890-3758-A-101-E MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 43315

Matrix: Solid

Prep Type: Total/NA

%Rec

Prep Batch: 43343

Sample Sample MSD MSD RPD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U 997 980.3 96 mg/Kg 70 - 130 15 20 (GRO)-C6-C10 Diesel Range Organics (Over 90.7 997 1038 mg/Kg 95 70 - 130 2 20

C10-C28)

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 102 | | 70 - 130 |
| o-Terphenyl | 98 | | 70 - 130 |

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Job ID: 890-3770-1 Client: Ensolum Project/Site: Toro 22-3H SDG: 03A1987030

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43379/1-A

Matrix: Solid

Analysis Batch: 43414

MB MB

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/06/23 13:58

Lab Sample ID: LCS 880-43379/2-A

Matrix: Solid

Analysis Batch: 43414

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 244.0 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-43379/3-A

Matrix: Solid

Analysis Batch: 43414

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 245.1 mg/Kg 90 - 110

Lab Sample ID: 890-3769-A-1-E MS

Matrix: Solid

Analysis Batch: 43414

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride <5.02 251 254.6 101 90 - 110 mg/Kg

Lab Sample ID: 890-3769-A-1-F MSD

Matrix: Solid

Analysis Batch: 43414

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride <5.02 U 251 256.2 mg/Kg 101 90 - 110 20

QC Association Summary

Client: Ensolum Job ID: 890-3770-1 Project/Site: Toro 22-3H SDG: 03A1987030

GC VOA

Prep Batch: 43267

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-3770-1 | PH01 | Total/NA | Solid | 5035 | |
| 890-3770-2 | PH01 | Total/NA | Solid | 5035 | |
| 890-3770-3 | PH01 | Total/NA | Solid | 5035 | |
| 890-3770-4 | PH01 | Total/NA | Solid | 5035 | |
| 890-3770-5 | PH01 | Total/NA | Solid | 5035 | |
| 890-3770-6 | PH01 | Total/NA | Solid | 5035 | |
| MB 880-43267/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-43267/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-43267/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-23201-A-1-H MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-23201-A-1-I MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 43325

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-3770-1 | PH01 | Total/NA | Solid | 8021B | 43267 |
| 890-3770-2 | PH01 | Total/NA | Solid | 8021B | 43267 |
| 890-3770-3 | PH01 | Total/NA | Solid | 8021B | 43267 |
| 890-3770-4 | PH01 | Total/NA | Solid | 8021B | 43267 |
| 890-3770-5 | PH01 | Total/NA | Solid | 8021B | 43267 |
| 890-3770-6 | PH01 | Total/NA | Solid | 8021B | 43267 |
| MB 880-43267/5-A | Method Blank | Total/NA | Solid | 8021B | 43267 |
| LCS 880-43267/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 43267 |
| LCSD 880-43267/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 43267 |
| 880-23201-A-1-H MS | Matrix Spike | Total/NA | Solid | 8021B | 43267 |
| 880-23201-A-1-I MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 43267 |

Analysis Batch: 43425

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3770-1 | PH01 | Total/NA | Solid | Total BTEX | - |
| 890-3770-2 | PH01 | Total/NA | Solid | Total BTEX | |
| 890-3770-3 | PH01 | Total/NA | Solid | Total BTEX | |
| 890-3770-4 | PH01 | Total/NA | Solid | Total BTEX | |
| 890-3770-5 | PH01 | Total/NA | Solid | Total BTEX | |
| 890-3770-6 | PH01 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 43315

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-3770-1 | PH01 | Total/NA | Solid | 8015B NM | 43343 |
| 890-3770-2 | PH01 | Total/NA | Solid | 8015B NM | 43343 |
| 890-3770-3 | PH01 | Total/NA | Solid | 8015B NM | 43343 |
| 890-3770-4 | PH01 | Total/NA | Solid | 8015B NM | 43343 |
| 890-3770-5 | PH01 | Total/NA | Solid | 8015B NM | 43343 |
| 890-3770-6 | PH01 | Total/NA | Solid | 8015B NM | 43343 |
| MB 880-43343/1-A | Method Blank | Total/NA | Solid | 8015B NM | 43343 |
| LCS 880-43343/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 43343 |
| LCSD 880-43343/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 43343 |
| 890-3758-A-101-D MS | Matrix Spike | Total/NA | Solid | 8015B NM | 43343 |
| 890-3758-A-101-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 43343 |

QC Association Summary

 Client: Ensolum
 Job ID: 890-3770-1

 Project/Site: Toro 22-3H
 SDG: 03A1987030

GC Semi VOA

Prep Batch: 43343

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-3770-1 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-3770-2 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-3770-3 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-3770-4 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-3770-5 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-3770-6 | PH01 | Total/NA | Solid | 8015NM Prep | |
| MB 880-43343/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-43343/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-43343/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3758-A-101-D MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3758-A-101-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 43445

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3770-1 | PH01 | Total/NA | Solid | 8015 NM | _ |
| 890-3770-2 | PH01 | Total/NA | Solid | 8015 NM | |
| 890-3770-3 | PH01 | Total/NA | Solid | 8015 NM | |
| 890-3770-4 | PH01 | Total/NA | Solid | 8015 NM | |
| 890-3770-5 | PH01 | Total/NA | Solid | 8015 NM | |
| 890-3770-6 | PH01 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 43379

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3770-1 | PH01 | Soluble | Solid | DI Leach | |
| 890-3770-2 | PH01 | Soluble | Solid | DI Leach | |
| 890-3770-3 | PH01 | Soluble | Solid | DI Leach | |
| 890-3770-4 | PH01 | Soluble | Solid | DI Leach | |
| 890-3770-5 | PH01 | Soluble | Solid | DI Leach | |
| 890-3770-6 | PH01 | Soluble | Solid | DI Leach | |
| MB 880-43379/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-43379/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-43379/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3769-A-1-E MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3769-A-1-F MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 43414

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3770-1 | PH01 | Soluble | Solid | 300.0 | 43379 |
| 890-3770-2 | PH01 | Soluble | Solid | 300.0 | 43379 |
| 890-3770-3 | PH01 | Soluble | Solid | 300.0 | 43379 |
| 890-3770-4 | PH01 | Soluble | Solid | 300.0 | 43379 |
| 890-3770-5 | PH01 | Soluble | Solid | 300.0 | 43379 |
| 890-3770-6 | PH01 | Soluble | Solid | 300.0 | 43379 |
| MB 880-43379/1-A | Method Blank | Soluble | Solid | 300.0 | 43379 |
| LCS 880-43379/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 43379 |
| LCSD 880-43379/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 43379 |
| 890-3769-A-1-E MS | Matrix Spike | Soluble | Solid | 300.0 | 43379 |
| 890-3769-A-1-F MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 43379 |

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Job ID: 890-3770-1

Client: Ensolum Project/Site: Toro 22-3H SDG: 03A1987030

Client Sample ID: PH01 Lab Sample ID: 890-3770-1

Date Collected: 01/04/23 13:10 **Matrix: Solid** Date Received: 01/05/23 10:30

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 43267 | 01/05/23 13:12 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 43325 | 01/06/23 13:22 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 43425 | 01/06/23 15:30 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 43445 | 01/06/23 16:56 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 43343 | 01/06/23 08:58 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 43315 | 01/06/23 14:02 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 43379 | 01/06/23 12:42 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 43414 | 01/06/23 14:42 | CH | EET MID |

Client Sample ID: PH01 Lab Sample ID: 890-3770-2

Date Collected: 01/04/23 13:40 **Matrix: Solid** Date Received: 01/05/23 10:30

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 43267 | 01/05/23 13:12 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 43325 | 01/06/23 13:43 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 43425 | 01/06/23 15:30 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 43445 | 01/06/23 16:56 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 43343 | 01/06/23 08:58 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 43315 | 01/06/23 14:23 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 43379 | 01/06/23 12:42 | KS | EET MIC |
| Soluble | Analysis | 300.0 | | 1 | | | 43414 | 01/06/23 14:57 | CH | EET MID |

Client Sample ID: PH01 Lab Sample ID: 890-3770-3 Date Collected: 01/04/23 14:10 **Matrix: Solid**

Batch Dil Final Batch Initial Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.03 g 5 mL 43267 01/05/23 13:12 MNR EET MID Total/NA Analysis 8021B 5 mL 5 mL 43325 01/06/23 14:03 MNR **EET MID** Total/NA Analysis Total BTEX 43425 01/06/23 15:30 SM EET MID 1 Total/NA Analysis 8015 NM 43445 01/06/23 16:56 SM **EET MID** Total/NA Prep 8015NM Prep 10.01 g 10 mL 43343 01/06/23 08:58 DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 43315 01/06/23 14:45 SM EET MID Soluble Leach DI Leach 5 g 50 mL 43379 01/06/23 12:42 KS EET MID

Lab Sample ID: 890-3770-4 **Client Sample ID: PH01**

43414

01/06/23 15:02

СН

Date Collected: 01/04/23 14:40 **Matrix: Solid** Date Received: 01/05/23 10:30

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 43267 | 01/05/23 13:12 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 43325 | 01/06/23 14:24 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 43425 | 01/06/23 15:30 | SM | EET MID |

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EET MID

Soluble

Released to Imaging: 7/31/2023 7:52:00 AM

Analysis

300.0

Date Received: 01/05/23 10:30

Job ID: 890-3770-1 SDG: 03A1987030

Client Sample ID: PH01

Project/Site: Toro 22-3H

Client: Ensolum

Lab Sample ID: 890-3770-4

Matrix: Solid

Date Collected: 01/04/23 14:40 Date Received: 01/05/23 10:30

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 43445 | 01/06/23 16:56 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 43343 | 01/06/23 08:58 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 43315 | 01/06/23 15:06 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 43379 | 01/06/23 12:42 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 43414 | 01/06/23 15:07 | CH | EET MID |

Lab Sample ID: 890-3770-5

Matrix: Solid

Date Collected: 01/04/23 15:10 Date Received: 01/05/23 10:30

Date Collected: 01/04/23 15:40

Date Received: 01/05/23 10:30

Client Sample ID: PH01

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 43267 | 01/05/23 13:12 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 43325 | 01/06/23 14:45 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 43425 | 01/06/23 15:30 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 43445 | 01/06/23 16:56 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 43343 | 01/06/23 08:58 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 43315 | 01/06/23 15:28 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 43379 | 01/06/23 12:42 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 43414 | 01/06/23 15:12 | CH | EET MID |

Client Sample ID: PH01 Lab Sample ID: 890-3770-6

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 43267 | 01/05/23 13:12 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 43325 | 01/06/23 15:05 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 43425 | 01/06/23 15:30 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 43445 | 01/06/23 16:56 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 43343 | 01/06/23 08:58 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 43315 | 01/06/23 16:11 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 43379 | 01/06/23 12:42 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 43414 | 01/06/23 15:17 | CH | EET MID |

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-3770-1

 Project/Site: Toro 22-3H
 SDG: 03A1987030

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Pr | ogram | Identification Number | Expiration Date |
|---|----------------------------------|----------------------------------|---|-------------------------|
| Texas | NE | ELAP | T104704400-22-25 | 06-30-23 |
| The following analytes | are included in this report, bu | it the laboratory is not certifi | ed by the governing authority. This list ma | av include analytes for |
| the agency does not of | fer certification. | • | , , , | ., |
| the agency does not of Analysis Method | fer certification . Prep Method | Matrix | Analyte | -, |
| 0 , | | Matrix Solid | Analyte Total TPH | |

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Method Summary

Job ID: 890-3770-1 Client: Ensolum Project/Site: Toro 22-3H SDG: 03A1987030

| Method | Method Description | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | MCAWW | EET MID |
| 5035 | Closed System Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Ensolum

Project/Site: Toro 22-3H

Job ID: 890-3770-1

SDG: 03A1987030

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3770-1 | PH01 | Solid | 01/04/23 13:10 | 01/05/23 10:30 | 0.5' |
| 890-3770-2 | PH01 | Solid | 01/04/23 13:40 | 01/05/23 10:30 | 5' |
| 890-3770-3 | PH01 | Solid | 01/04/23 14:10 | 01/05/23 10:30 | 10' |
| 890-3770-4 | PH01 | Solid | 01/04/23 14:40 | 01/05/23 10:30 | 15' |
| 890-3770-5 | PH01 | Solid | 01/04/23 15:10 | 01/05/23 10:30 | 20' |
| 890-3770-6 | PH01 | Solid | 01/04/23 15:40 | 01/05/23 10:30 | 21' |

P P N C

13 14

eurofins **Environment Testing** Xenco

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

| Work Order No: | |
|---|-----------------|
| www.xenco.com | Page 1 of 1 |
| Work Order Comments | nts |
| Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐ | RRC Superfund |
| State of Project: | |
| Reporting: Level II Level III PST/UST TRRP | TRRP Level IV |
| Deliverables: EDD | Other: |

| Revised Date: 08/25/2020 Rev. 2020.2 | Re | | 6 | | | | | | | |
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| Date/Time | Received by: (Signature) | Relinguished by: (Signature) | Date/Time | | iro) | hw (Signat | Paraiva | | (Cignatura) | Delinquished by |
| | It assigns standard terms and conditions the due to circumstances beyond the control will be enforced unless previously negotiated. | Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of \$85,00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | pany to Eurofins Xenco osses or expenses incu bmitted to Eurofins Xer | client com ity for any l sample su | thase order from any responsibilinge of \$5 for each | tutes a valid pur shall not assume roject and a char | of samples consti t of samples and applied to each p | quishment of the costs of the c | document and reling to will be liable only imum charge of \$6 | tice: Signature of this service. Eurofins Xenu Eurofins Xenco. A mir |
| 470 / 7471 | Ng TI U Hg: 1631 / 245.1 / 7470 / 7471 | Cr Co Cu Pb Mn Mo | Sb As Ba Be Cd | | TCLP / SPLP 6010: 8RCRA | TCLP / SP | zed | be analy | nd Metal(s) to | Circle Method(s) and Metal(s) to be analyzed |
| Sn ∪ V Zn | Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn | Ca Cr Co Cu Fe Pb | 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd | Al Sb | M Texas 11 | CRA 13PP | 8R | 6020: | 010 200.8 / 6020: | Total 200.7 / 6010 |
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| | | | | | | | | | | |
| | | | | | | C | LAND | | | |
| | | | | 1 | 2023 | 2 | - | | | |
| | | | × | 1 | 21' Grab/ | 15:40 | 1/4/2023 | S | 7 | PH01 |
| | | | × | 1 | 20' Grab/ | 15:10 | 1/4/2023 | S | = | PH01 |
| nOY1727952679 | nC | | × | 1 | 15' Grab/ | 14:40 | 1/4/2023 | S | <u> </u> | PH01 |
| Incident ID | | | × | -1 | 10' Grab/ | 14:10 | 1/4/2023 | S | <u> </u> | PH01 |
| | | | × | 0/ 1 | 5' Grab/ | 13:40 | 1/4/2023 | S | 3 | PH01 |
| | | | × | 1 | 0.5' Grab/ | 13:10 | 1/4/2023 | S | <u> </u> | PH01 |
| Sample Comments | San | | TPH (8 | Grab/ # of Comp Cont | Depth Comp | Time Sampled | Date Sampled | Matrix | ntification | Sample Identification |
| NaOH+Ascorbic Acid: SAPC | NaOH+AS | | 015) | | Sic | nperature: | Corrected Temperature | | | Total Containers: |
| Zn Acetate+NaOH: Zn | Zn Acetat | | | | (M) | Reading: | N/A Temperature Reading | NO (NIA) | Yes | Sample Custody Seals |
| NaSO ₃ | | 890-3770 Chain of Custody | PA: | Pa | -0.0 | ctor: | Correction Factor: | No ATTA | Yes | Cooler Custody Seals: |
| NABIS | NaHSO4: NABIS | | 300. | ran | 10 m | ē | Thermometer ID |) No | ntact: Yes | Samples Received Intact |
| פ | H ₃ PO ₄ : HP | | 0) | neter | Wes) No | Wet Ice: | Yes No | Temp Blank: | | SAMPLE RECEIPT |
| | | | _ | 3 | | | | | 1001141201 | CC#: |

1061141201

Sampler's Name:

Project Number

roject Location:

Rural Lea, NM Yocoly Edyte Konan

Due Date:

Routine

✓ Rush 24Hr TA1

Turn Around

ANALYSIS REQUEST

HCL: HC

NaOH: Na HNO3: HN MeOH: Me

H₃PO₄: HP H₂SO₄: H₂ Cool: Cool None: NO

Preservative Codes

DI Water: H₂O

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

03A1987030

Toro 22-3H

roject Name:

Phone:

832-541-7719 Carlsbad, NM 88220 3122 National Parks HWY

Email: gmoreno@Ensolum.com, jim.raley@dvn.com

City, State ZIP:

Carlsbad, NM 88220 5315 Buena Vista Dr WPX Energy Jim Raley

City, State ZIP: Address: Company Name: Project Manager

Ensolum

Gilbert Moreno

Bill to: (if different) Company Name:

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3770-1 SDG Number: 03A1987030

List Source: Eurofins Carlsbad

Login Number: 3770 List Number: 1

Creator: Stutzman, Amanda

| Question | Answer | Comment |
|--|--------|-------------------------------------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | N/A | Refer to Job Narrative for details. |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

12

13

14

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3770-1 SDG Number: 03A1987030

Login Number: 3770 **List Source: Eurofins Midland** List Number: 2

List Creation: 01/06/23 11:27 AM

Creator: Rodriguez, Leticia

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is | N/A | |

<6mm (1/4").

Report to:
Anna Byers







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Toro 22-3H

Work Order: E307001

Job Number: 01058-0007

Received: 7/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/10/23

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Toro 22-3H

Workorder: E307001

Date Received: 7/5/2023 8:15:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/5/2023 8:15:00AM, under the Project Name: Toro 22-3H.

The analytical test results summarized in this report with the Project Name: Toro 22-3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

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Sample Summary

| _ | | | | |
|---|-----------------------|------------------|------------|----------------|
| Γ | WPX Energy - Carlsbad | Project Name: | Toro 22-3H | Reported: |
| 1 | 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reporteu: |
| 1 | Carlsbad NM, 88220 | Project Manager: | Anna Byers | 07/10/23 14:57 |

| Client Sample ID | Lab Sample ID Matrix | Sampled | Received | Container |
|------------------|----------------------|----------|----------|------------------|
| PH02 0.5' | E307001-01A Soil | 06/30/23 | 07/05/23 | Glass Jar, 2 oz. |
| PH02 10' | E307001-02A Soil | 06/30/23 | 07/05/23 | Glass Jar, 2 oz. |
| PH02 18' | E307001-03A Soil | 06/30/23 | 07/05/23 | Glass Jar, 2 oz. |



Sample Data

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 2:57:54PM |

PH02 0.5' E307001-01

| | | E30/001-01 | | | | |
|--|--------|--------------------|----------|-----------|----------|----------------|
| Agairta | Result | Reporting Limit | Dilution | Duomono d | Amalyzad | Notes |
| Analyte | Kesuit | Limit | Dilution | Prepared | Analyzed | notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Anal | yst: IY | | Batch: 2327003 |
| Benzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Toluene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| o-Xylene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 07/05/23 | 07/06/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 102 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Anal | yst: IY | | Batch: 2327003 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 87.5 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Anal | yst: KM | | Batch: 2327033 |
| Diesel Range Organics (C10-C28) | 51.9 | 50.0 | 2 | 07/06/23 | 07/07/23 | |
| Oil Range Organics (C28-C36) | ND | 100 | 2 | 07/06/23 | 07/07/23 | |
| Surrogate: n-Nonane | | 89.2 % | 50-200 | 07/06/23 | 07/07/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Anal | yst: BA | | Batch: 2327028 |
| Chloride | 77.8 | 20.0 | 1 | 07/06/23 | 07/07/23 | |



Sample Data

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 2:57:54PM |

PH02 10'

| | | E307001-02 | | | | |
|--|--------|------------|----------|----------|----------|----------------|
| | | Reporting | | | | |
| Analyte | Result | Limit | Dilution | Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Ana | lyst: IY | | Batch: 2327003 |
| Benzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Toluene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| o-Xylene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 07/05/23 | 07/06/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 102 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Ana | lyst: IY | | Batch: 2327003 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 87.9 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Ana | lyst: KM | | Batch: 2327033 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 07/06/23 | 07/08/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 07/06/23 | 07/08/23 | |
| Surrogate: n-Nonane | | 86.9 % | 50-200 | 07/06/23 | 07/08/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Ana | lyst: BA | | Batch: 2327028 |
| Chloride | 1040 | 20.0 | 1 | 07/06/23 | 07/07/23 | |



Sample Data

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 2:57:54PM |

PH02 18'

| | | E307001-03 | | | | |
|--|--------|------------|---------|-------------|----------|----------------|
| | | Reporting | | | | |
| Analyte | Result | Limit | Dilutio | on Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Ar | nalyst: IY | | Batch: 2327003 |
| Benzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Toluene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| o-Xylene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 07/05/23 | 07/06/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 101 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Ar | nalyst: IY | | Batch: 2327003 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 87.4 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Ar | nalyst: KM | | Batch: 2327033 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 07/06/23 | 07/08/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 07/06/23 | 07/08/23 | |
| Surrogate: n-Nonane | | 85.1 % | 50-200 | 07/06/23 | 07/08/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Ar | nalyst: BA | | Batch: 2327028 |
| Chloride | 676 | 20.0 | 1 | 07/06/23 | 07/07/23 | |



| | | QC 51 | a | ry Data | <u>a </u> | | | | |
|-------------------------------------|--------|--------------------|----------------|------------------|--|---------------|--------------|--------------|---------------------|
| WPX Energy - Carlsbad | | Project Name: | | ro 22-3H | | | | | Reported: |
| 5315 Buena Vista Dr | | Project Number: | 01 | 058-0007 | | | | | |
| Carlsbad NM, 88220 | | Project Manager: | Ar | nna Byers | | | | | 7/10/2023 2:57:54PM |
| | | Volatile O | ganics b | y EPA 802 | 1B | | | | Analyst: IY |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2327003-BLK1) | | | | | | | Prepared: 0 | 7/05/23 A | nalyzed: 07/05/23 |
| Benzene | ND | 0.0250 | | | | | - | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.37 | | 8.00 | | 105 | 70-130 | | | |
| LCS (2327003-BS1) | | | | | | | Prepared: 0 | 7/05/23 A | nalyzed: 07/05/23 |
| Benzene | 4.90 | 0.0250 | 5.00 | | 97.9 | 70-130 | | | |
| Ethylbenzene | 4.75 | 0.0250 | 5.00 | | 95.0 | 70-130 | | | |
| Toluene | 4.91 | 0.0250 | 5.00 | | 98.2 | 70-130 | | | |
| o-Xylene | 4.89 | 0.0250 | 5.00 | | 97.8 | 70-130 | | | |
| p,m-Xylene | 9.84 | 0.0500 | 10.0 | | 98.4 | 70-130 | | | |
| Total Xylenes | 14.7 | 0.0250 | 15.0 | | 98.2 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.21 | | 8.00 | | 103 | 70-130 | | | |
| Matrix Spike (2327003-MS1) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 A | nalyzed: 07/05/23 |
| Benzene | 4.76 | 0.0250 | 5.00 | ND | 95.3 | 54-133 | | | |
| Ethylbenzene | 4.64 | 0.0250 | 5.00 | 0.0264 | 92.3 | 61-133 | | | |
| Toluene | 4.84 | 0.0250 | 5.00 | 0.0757 | 95.3 | 61-130 | | | |
| o-Xylene | 4.80 | 0.0250 | 5.00 | ND | 96.0 | 63-131 | | | |
| p,m-Xylene | 9.64 | 0.0500 | 10.0 | 0.0702 | 95.7 | 63-131 | | | |
| Total Xylenes | 14.4 | 0.0250 | 15.0 | 0.0702 | 95.8 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.15 | | 8.00 | | 102 | 70-130 | | | |
| Matrix Spike Dup (2327003-MSD1) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 A | nalyzed: 07/05/23 |
| Benzene | 4.93 | 0.0250 | 5.00 | ND | 98.5 | 54-133 | 3.38 | 20 | |
| Ethylbenzene | 4.79 | 0.0250 | 5.00 | 0.0264 | 95.4 | 61-133 | 3.20 | 20 | |
| Toluene | 5.00 | 0.0250 | 5.00 | 0.0757 | 98.4 | 61-130 | 3.11 | 20 | |
| o-Xylene | 4.96 | 0.0250 | 5.00 | ND | 99.1 | 63-131 | 3.22 | 20 | |
| p,m-Xylene | 9.95 | 0.0500 | 10.0 | 0.0702 | 98.8 | 63-131 | 3.19 | 20 | |
| Total Xylenes | 14.9 | 0.0250 | 15.0 | 0.0702 | 98.9 | 63-131 | 3.20 | 20 | |

8.00

8.08

101

70-130



Surrogate: 4-Bromochlorobenzene-PID

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | Reported: |
|---|----------------------------------|--------------------------|---------------------|
| 5315 Buena Vista Dr Carlsbad NM, 88220 | Project Number: Project Manager: | 01058-0007 Anna Byers | 7/10/2023 2:57:54PM |

| Carlsbad NM, 88220 | | Project Manage | r: Ar | na Byers | | | | 7 | /10/2023 2:57:54PN |
|---|-----------------|-----------------------------|-------------------------|---------------------------|-----------|---------------|-------------|-------------------|--------------------|
| | Non | halogenated | Organics l | oy EPA 80 | 15D - GI | RO | | | Analyst: IY |
| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits | RPD % | RPD Limit % | Notes |
| Blank (2327003-BLK1) | | | | | | | Prepared: 0 | 7/05/23 Ana | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.69 | | 8.00 | | 83.6 | 70-130 | | | |
| LCS (2327003-BS2) | | | | | | | Prepared: 0 | 7/05/23 Ana | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 48.4 | 20.0 | 50.0 | | 96.8 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.20 | | 8.00 | | 90.0 | 70-130 | | | |
| Matrix Spike (2327003-MS2) | | | | Source: | E306248-2 | 23 | Prepared: 0 | 7/05/23 Ana | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 48.7 | 20.0 | 50.0 | ND | 97.4 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.02 | | 8.00 | | 87.7 | 70-130 | | | |
| Matrix Spike Dup (2327003-MSD2) | | | | Source: | E306248-2 | 23 | Prepared: 0 | 7/05/23 Ana | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 47.4 | 20.0 | 50.0 | ND | 94.9 | 70-130 | 2.62 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.02 | | 8.00 | | 87.8 | 70-130 | | | |

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | Reported: |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 2:57:54PM |

| Carlsbad NM, 88220 | | Project Manage | r: Ar | ına Byers | | | | | 7/10/2023 2:57:54PM |
|---------------------------------|--------|--------------------|----------------|------------------|-----------|---------------|-------------|--------------|---------------------|
| | Nonha | logenated Or | ganics by l | EPA 8015I | D - DRO | /ORO | | | Analyst: KM |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2327033-BLK1) | | | | | | | Prepared: 0 | 7/06/23 A | Analyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 46.0 | | 50.0 | | 91.9 | 50-200 | | | |
| LCS (2327033-BS1) | | | | | | | Prepared: 0 | 7/06/23 A | Analyzed: 07/10/23 |
| Diesel Range Organics (C10-C28) | 239 | 25.0 | 250 | | 95.6 | 38-132 | | | |
| Surrogate: n-Nonane | 45.4 | | 50.0 | | 90.8 | 50-200 | | | |
| Matrix Spike (2327033-MS1) | | | | Source: | E306236- | 04 | Prepared: 0 | 7/06/23 A | Analyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | 366 | 25.0 | 250 | 93.6 | 109 | 38-132 | | | |
| Surrogate: n-Nonane | 41.0 | | 50.0 | | 81.9 | 50-200 | | | |
| Matrix Spike Dup (2327033-MSD1) | | | | Source: | E306236-0 | 04 | Prepared: 0 | 7/06/23 A | Analyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | 383 | 25.0 | 250 | 93.6 | 116 | 38-132 | 4.62 | 20 | |
| Surrogate: n-Nonane | 42.0 | | 50.0 | | 84.1 | 50-200 | | | |

| WPX Energy - Carlsbad | | Project Name: | | oro 22-3H | | | | | Reported: |
|---|--------|-------------------------------------|----------------|-----------------------|----------|---------------|--------------|--------------|---------------------|
| 5315 Buena Vista Dr Carlsbad NM, 88220 | | Project Number: Project Manager: | | 058-0007 nna Byers | | | | | 7/10/2023 2:57:54PM |
| | | Anions | by EPA 3 | 00.0/9056 | 4 | | | | Analyst: BA |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2327028-BLK1) | | | | | | | Prepared: 0' | 7/06/23 A | nalyzed: 07/07/23 |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2327028-BS1) | | | | | | | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2327028-MS1) | | | | Source: | E306247- | 01 | Prepared: 0' | 7/06/23 A | nalyzed: 07/07/23 |
| Chloride | 277 | 20.0 | 250 | 28.9 | 99.3 | 80-120 | | | |
| Matrix Spike Dup (2327028-MSD1) | | | | Source: | E306247- | 01 | Prepared: 0' | 7/06/23 A | nalyzed: 07/07/23 |
| Chloride | 277 | 20.0 | 250 | 28.9 | 99.3 | 80-120 | 0.00794 | 20 | |

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|-----------------------|------------------|------------|----------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 07/10/23 14:57 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



| Client: W | /PX Energy Pe | rmian LLC | | | | Bill To | | | 44.16 | La | b-Us | se On | ly : | 13: AN | | | TA | NT | | | rogram |
|---------------------------|---|-----------|----------------------|-----------|--|--|----------------|---------|----------------------------|--------------|-------------|-------------|----------------|---------|-------|-------------|-------|--|---|-------------------------------|--------------------------|
| | Toro 22-3H | | | | | tention: Jim Raley | | Lab | WO# | | | Job N | | | 1D | 2D | 3D | | ndard | CWA | SDWA |
| | Aanager: Anna | | | | pro-retigiones | dress: 5315 Buena Vista Dr. | | E | 307 | 00 | | | | 0007 | | | | | ay TAT | | |
| | 13000 W Cou | | | | ******** | y, State, Zip: Carlsbad, NM, 8822 | 20 | | | | | Analy | sis an | d Metho | d | | | | 0 (C) | | RCRA |
| | te, Zip_Odessa | | 5 | | 94,040,44 | one: 575-885-7502 | | Į | à | ĺ | | 1 1 | | | 1 | | | <u> </u> | اديد فارج | 61-1 | <u> </u> |
| | 575) 200-6754 | | | | 9 7 7 7 | nail: jim.raley@dvn.com | | ł | lg N | | | | _ | | _ ا | | | - | unal col | State | TV |
| | evon-team@e | | om | | | O: EE.151032.01.ABD | | 4 | 8 | 12 | 9 | 유 | Š. | | Σ | | | <u> </u> | NIVI CO | UT AZ | '^ |
| | d by: Edyte Ko | nan | | | Selinc | ident ID: nOY1727952679 | Lab | ₹ |) 180 | 8 | , 8, | 8 | ige 3 | | ၂ ႘ |] | ا ں ا | l ⊦ | | | |
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | | | Number | Dept | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | BGDOC | | GDOC | | | Remarks | |
| 8:00 | 6/30/2023 | S | 1 | | | PH02 | 1 | 0.5' | | | | | | | x | | | | | | Page Togram SDWA RCRA |
| 8:10 | 6/30/2023 | S | 1 | | | PH02 | 2 | 10' | | | | | | | x | | | | | | |
| 8:20 | 6/30/2023 | S | 1 | | | PH02 | 3 | 18' | | | | | | | х | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | <u>.</u> | | | | | | | | · | | | | | | | | |
| | | | | | <u>, </u> | | W. C. C. | | | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Addition | nal Instruction | es: | | | | | | | | | | | | | | | | | | | |
| | pler), attest to the e of collection is co | | | - | | at tampering with or intentionally mislabellin <u>Sampled by:</u> | g the sample k | ocation | ١, | | | | | _ | | | | | - | they are sam sequent days. | pled or |
| Relinquish Edyte Konan | ed by: (Signature) |) | Date 06/3 | 0/2023 | Time 14:20 | Received by: (Signature) Michelle R Gonzales | Date 6-30-2 | 23 | Time 1 | 420 | | | | on ice: | | ab U: | se On | ıly . | | | |
| Relinquish MiCh | ed by: (Signature 1elle R Gol | izales | Date 6- | 30-23 | Time 1615 | Regeived by: (Signature) | Date / | | Time | 15 | | T1 | | | 12 | | | | [3 | | |
| Relinquish | ed by: (Signature |) | Date | | Time | Received by: (Signature) | Date | | Time | | | AVG | Tem | p°c 7 | 1 | | | | | | |
| | trix: S - Soil, Sd - So | | | | | - | Containe | | | | | | | | | ere ere ere | | 10 - 1900 C - 10 C | *************************************** | A CANADA CAMPANA A SPANSA | |



envirotech

Printed: 7/5/2023 9:04:50AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client: | WPX Energy - Carlsbad | Date Received: | 07/05/23 | 08:15 | Work Order ID: | E307001 |
|------------|---|-------------------|------------|--------------------|----------------|----------------|
| Phone: | (575) 200-6754 | Date Logged In: | 07/05/23 (| 09:01 | Logged In By: | Caitlin Mars |
| Email: | anna@etechenv.vom | Due Date: | 07/11/23 | 17:00 (4 day TAT) | | |
| | | | | | | |
| Chain of | Custody (COC) | | | | | |
| | ne sample ID match the COC? | | Yes | | | |
| | ne number of samples per sampling site location ma | tch the COC | Yes | | | |
| | amples dropped off by client or carrier? | | Yes | Carrier: Cou | <u>ırier</u> | |
| | e COC complete, i.e., signatures, dates/times, reques | sted analyses? | Yes | | | |
| 5. Were a | Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi | • | Yes | | <u>Commen</u> | uts/Resolution |
| Sample T | <u>urn Around Time (TAT)</u> | | | | | |
| 6. Did the | COC indicate standard TAT, or Expedited TAT? | | Yes | | | |
| Sample C | | | | | | |
| | sample cooler received? | | Yes | | | |
| 8. If yes, | was cooler received in good condition? | | Yes | | | |
| 9. Was the | e sample(s) received intact, i.e., not broken? | | Yes | | | |
| 10. Were | custody/security seals present? | | No | | | |
| 11. If yes | , were custody/security seals intact? | | NA | | | |
| | e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample | e received w/i 15 | Yes C | | | |
| Sample C | | | _ | | | |
| | queous VOC samples present? | | No | | | |
| | OC samples collected in VOA Vials? | | NA | | | |
| | head space less than 6-8 mm (pea sized or less)? | | NA | | | |
| | trip blank (TB) included for VOC analyses? | | NA | | | |
| | on-VOC samples collected in the correct containers | ? | Yes | | | |
| | appropriate volume/weight or number of sample contain | | Yes | | | |
| Field Lal | · · | | | | | |
| | field sample labels filled out with the minimum info | ormation: | | | | |
| | ample ID? | | Yes | | | |
| | ate/Time Collected? | | Yes | | | |
| C | ollectors name? | | Yes | | | |
| | reservation | | | | | |
| | the COC or field labels indicate the samples were pr | reserved? | No | | | |
| | ample(s) correctly preserved? | . 1.0 | NA | | | |
| 24. Is lab | filteration required and/or requested for dissolved n | netals? | No | | | |
| | se Sample Matrix | | | | | |
| 26. Does | the sample have more than one phase, i.e., multipha | se? | No | | | |
| 27. If yes | , does the COC specify which phase(s) is to be analy | yzed? | NA | | | |
| Subcontr | act Laboratory | | | | | |
| 28. Are sa | amples required to get sent to a subcontract laborato | ry? | No | | | |
| 29. Was a | subcontract laboratory specified by the client and is | f so who? | NA | Subcontract Lab: N | JA | |
| Client Ir | nstruction_ | | | | | |
| | | | | | | |
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| | | | | | | |
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| | | | | | | |

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Anna Byers







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Toro 22-3H

Work Order: E307003

Job Number: 01058-0007

Received: 7/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/10/23

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Toro 22-3H

Workorder: E307003

Date Received: 7/5/2023 8:15:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/5/2023 8:15:00AM, under the Project Name: Toro 22-3H.

The analytical test results summarized in this report with the Project Name: Toro 22-3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

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Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | Reported: |
|-----------------------|------------------|------------|----------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported. |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 07/10/23 15:01 |

| Client Sample ID | Lab Sample ID M | Matrix | Sampled | Received | Container |
|------------------|-----------------|--------|----------|----------|------------------|
| PH02 21' | E307003-01A | Soil | 06/30/23 | 07/05/23 | Glass Jar, 2 oz. |



Sample Data

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 3:01:38PM |

PH02 21' E307003-01

| | E30/003-01 | | | | |
|--------|---|--|---|--|---|
| Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
| mg/kg | mg/kg | Anal | yst: IY | | Batch: 2327003 |
| ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| ND | 0.0500 | 1 | 07/05/23 | 07/06/23 | |
| ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| | 102 % | 70-130 | 07/05/23 | 07/06/23 | |
| mg/kg | mg/kg | Anal | yst: IY | | Batch: 2327003 |
| ND | 20.0 | 1 | 07/05/23 | 07/06/23 | |
| | 87.2 % | 70-130 | 07/05/23 | 07/06/23 | |
| mg/kg | mg/kg | Anal | yst: KM | | Batch: 2327033 |
| ND | 25.0 | 1 | 07/06/23 | 07/08/23 | |
| ND | 50.0 | 1 | 07/06/23 | 07/08/23 | |
| | 87.3 % | 50-200 | 07/06/23 | 07/08/23 | |
| mg/kg | mg/kg | Anal | yst: BA | | Batch: 2327028 |
| 254 | 20.0 | 1 | 07/06/23 | 07/07/23 | |
| | mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg | Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0500 ND 0.0250 IO2 % mg/kg mg/kg mg/kg ND 20.0 87.2 % mg/kg ND 25.0 ND 50.0 87.3 % mg/kg mg/kg mg/kg | Reporting Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 Mg/kg mg/kg Anal ND 20.0 1 87.2 % 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 87.3 % 50-200 mg/kg mg/kg Anal | Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 07/05/23 ND 0.0250 1 07/05/23 ND 0.0250 1 07/05/23 ND 0.0500 1 07/05/23 ND 0.0250 1 07/05/23 ND 0.0250 1 07/05/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/05/23 mg/kg mg/kg Analyst: KM ND 25.0 1 07/06/23 ND 50.0 1 07/06/23 87.3 % 50-200 07/06/23 mg/kg Mg/kg Analyst: BA | Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 07/05/23 07/06/23 ND 0.0250 1 07/05/23 07/06/23 ND 0.0250 1 07/05/23 07/06/23 ND 0.0500 1 07/05/23 07/06/23 ND 0.0250 1 07/05/23 07/06/23 ND 0.0250 1 07/05/23 07/06/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/05/23 07/06/23 mg/kg mg/kg Analyst: KM ND 25.0 1 07/05/23 07/06/23 ND 25.0 1 07/06/23 07/08/23 ND 50.0 1 07/06/23 07/08/23 ND 50.0 1 07/06/23 07/08/23 ND 50.0 1 07/06/23 07/08/23 |



| | | QC 51 | 4111111 | ny Data | | | | | |
|-------------------------------------|--------|--------------------|----------------|------------------|----------|---------------|-------------|--------------|-------------------|
| WPX Energy - Carlsbad | | Project Name: | | oro 22-3H | | | | | Reported: |
| 5315 Buena Vista Dr | | Project Number: | 01 | 058-0007 | | | | | |
| Carlsbad NM, 88220 | | Project Manager: | A | nna Byers | | | | 7/ | 10/2023 3:01:38PM |
| | | Volatile Oı | ganics b | y EPA 802 | 1B | | | | Analyst: IY |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2327003-BLK1) | | | | | | | Prepared: 0 | 7/05/23 Ana | lyzed: 07/05/23 |
| Benzene | ND | 0.0250 | | | | | - | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.37 | | 8.00 | | 105 | 70-130 | | | |
| LCS (2327003-BS1) | | | | | | | Prepared: 0 | 7/05/23 Ana | lyzed: 07/05/23 |
| Benzene | 4.90 | 0.0250 | 5.00 | | 97.9 | 70-130 | | | |
| Ethylbenzene | 4.75 | 0.0250 | 5.00 | | 95.0 | 70-130 | | | |
| Toluene | 4.91 | 0.0250 | 5.00 | | 98.2 | 70-130 | | | |
| o-Xylene | 4.89 | 0.0250 | 5.00 | | 97.8 | 70-130 | | | |
| p,m-Xylene | 9.84 | 0.0500 | 10.0 | | 98.4 | 70-130 | | | |
| Total Xylenes | 14.7 | 0.0250 | 15.0 | | 98.2 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.21 | | 8.00 | | 103 | 70-130 | | | |
| Matrix Spike (2327003-MS1) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 Ana | lyzed: 07/05/23 |
| Benzene | 4.76 | 0.0250 | 5.00 | ND | 95.3 | 54-133 | | | |
| Ethylbenzene | 4.64 | 0.0250 | 5.00 | 0.0264 | 92.3 | 61-133 | | | |
| Toluene | 4.84 | 0.0250 | 5.00 | 0.0757 | 95.3 | 61-130 | | | |
| o-Xylene | 4.80 | 0.0250 | 5.00 | ND | 96.0 | 63-131 | | | |
| p,m-Xylene | 9.64 | 0.0500 | 10.0 | 0.0702 | 95.7 | 63-131 | | | |
| Total Xylenes | 14.4 | 0.0250 | 15.0 | 0.0702 | 95.8 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.15 | | 8.00 | | 102 | 70-130 | | | |
| Matrix Spike Dup (2327003-MSD1) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 Ana | lyzed: 07/05/23 |
| Benzene | 4.93 | 0.0250 | 5.00 | ND | 98.5 | 54-133 | 3.38 | 20 | |
| Ethylbenzene | 4.79 | 0.0250 | 5.00 | 0.0264 | 95.4 | 61-133 | 3.20 | 20 | |
| Toluene | 5.00 | 0.0250 | 5.00 | 0.0757 | 98.4 | 61-130 | 3.11 | 20 | |
| o-Xylene | 4.96 | 0.0250 | 5.00 | ND | 99.1 | 63-131 | 3.22 | 20 | |
| p,m-Xylene | 9.95 | 0.0500 | 10.0 | 0.0702 | 98.8 | 63-131 | 3.19 | 20 | |
| | 14.9 | 0.0250 | 15.0 | 0.0702 | 98.9 | 63-131 | 3.20 | 20 | |

8.00

8.08

101

70-130



Surrogate: 4-Bromochlorobenzene-PID

| WPX Energy - Carlsbad 5315 Buena Vista Dr | Project Name: Project Number: | Toro 22-3H 01058-0007 | Reported: |
|--|-------------------------------|--------------------------|---------------------|
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 3:01:38PM |

| Carlsbad NM, 88220 | | Project Manage | | nna Byers | | | | 7 | /10/2023 3:01:38PM |
|---|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|-------------|-------------------|--------------------|
| | Non | halogenated | Organics l | by EPA 80 | 15D - Gl | RO | | | Analyst: IY |
| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
| Blank (2327003-BLK1) | | | | | | | Prepared: 0 | 7/05/23 An | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.69 | | 8.00 | | 83.6 | 70-130 | | | |
| LCS (2327003-BS2) | | | | | | | Prepared: 0 | 7/05/23 An | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 48.4 | 20.0 | 50.0 | | 96.8 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.20 | | 8.00 | | 90.0 | 70-130 | | | |
| Matrix Spike (2327003-MS2) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 An | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 48.7 | 20.0 | 50.0 | ND | 97.4 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.02 | | 8.00 | | 87.7 | 70-130 | | | |
| Matrix Spike Dup (2327003-MSD2) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 An | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 47.4 | 20.0 | 50.0 | ND | 94.9 | 70-130 | 2.62 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.02 | | 8.00 | | 87.8 | 70-130 | | | |

| WPX Energy - Carlsbad | Project Name: Toro 22-3H | Reported: |
|-----------------------|-----------------------------|---------------------|
| 5315 Buena Vista Dr | Project Number: 01058-0007 | · |
| Carlsbad NM, 88220 | Project Manager: Anna Byers | 7/10/2023 3:01:38PM |

| Carlsbad NM, 88220 | | Project Manage | r: Ar | ına Byers | | | | | 7/10/2023 3:01:38PM |
|---------------------------------|--------|--------------------|----------------|------------------|-----------|---------------|-------------|--------------|---------------------|
| | Nonha | logenated Or | ganics by l | EPA 8015I | D - DRO | /ORO | | | Analyst: KM |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2327033-BLK1) | | | | | | | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Dil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 46.0 | | 50.0 | | 91.9 | 50-200 | | | |
| LCS (2327033-BS1) | | | | | | | Prepared: 0 | 7/06/23 A | nalyzed: 07/10/23 |
| Diesel Range Organics (C10-C28) | 239 | 25.0 | 250 | | 95.6 | 38-132 | | | |
| Gurrogate: n-Nonane | 45.4 | | 50.0 | | 90.8 | 50-200 | | | |
| Matrix Spike (2327033-MS1) | | | | Source: | E306236-0 | 04 | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | 366 | 25.0 | 250 | 93.6 | 109 | 38-132 | | | |
| Surrogate: n-Nonane | 41.0 | | 50.0 | | 81.9 | 50-200 | | | |
| Matrix Spike Dup (2327033-MSD1) | | | | Source: | E306236-0 | 04 | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | 383 | 25.0 | 250 | 93.6 | 116 | 38-132 | 4.62 | 20 | |
| Surrogate: n-Nonane | 42.0 | | 50.0 | | 84.1 | 50-200 | | | |

Chloride

QC Summary Data

| WPX Energy - Carlsbad 5315 Buena Vista Dr | | Project Name: Project Number: | | oro 22-3H 1058-0007 | | | | | Reported: |
|--|--------|----------------------------------|----------------|------------------------|----------|---------------|-------------|--------------|---------------------|
| Carlsbad NM, 88220 | | Project Manager | : A | nna Byers | | | | | 7/10/2023 3:01:38PM |
| | | Anions | by EPA 3 | 300.0/9056 <i>A</i> | 1 | | | | Analyst: BA |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2327028-BLK1) | | | | | | | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2327028-BS1) | | | | | | | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2327028-MS1) | | | | Source: | E306247- | 01 | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Chloride | 277 | 20.0 | 250 | 28.9 | 99.3 | 80-120 | | | |
| Matrix Spike Dup (2327028-MSD1) | | | | Source: | E306247- | 01 | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |

250

20.0

28.9

99.3

80-120

0.00794

20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|-----------------------|------------------|------------|----------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 07/10/23 15:01 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project: Toro 22-3H

Phone: (575) 200-6754

Sampled

8:30

Collected by: Edyte Konan

Date Sampled

6/30/2023

Client: WPX Energy Permian LLC.

Address: 13000 W County Rd 100

City, State, Zip_Odessa,TX, 79765

Email: Devon-team@etechenv.com

Matrix

S

Containers

1

Sample ID

Project Manager: Anna Buyer

Lab

Number

21'

Bill To

Attention: Jim Raley

Phone: 575-885-7502

WO: EE.151032.01.ABD

PH02

Email: jim.raley@dvn.com

Incident ID: nOY1727952679

Address: 5315 Buena Vista Dr.

City, State, Zip: Carlsbad, NM, 88220

SDWA

RCRA

EPA Program

CWA

State

Remarks

NM CO UT AZ TX

TAT

Standard

5 day TAT

3D

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GDOC

1D 2D

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BGDOC

| | | | | المديرة والخارج الموها | | | | | | | | | | | | | |
|---|--------------------|---------------|--|------------------------|-------------|-------|-------|-------|---------|--------|----------------|--------|---------|----------|------------------------------|-----------------------|----------------------------|
| | | | | | | | | | | | | | | | | | |
| dditional Instructions: | | | | | | | | | | | | | | | | | |
| field sampler), attest to the validity and a te or time of collection is considered frau | | | hat tampering with or intentionally mislabelling <u>Sampled by:</u> | g the sample location | n, | | | | - | • | | | | | day they are subsequent o | e sampled or days. | |
| linquished by: (Signature) | Date 06/30/2023 | Time 14:20 | Received by: (Signature) Michelle R Gonzales | Date 6-30-23 | Time 142 | 0 | Recei | ved c | n ice: | | lab U Y// N | | ily | | | | 12 (1) 12 (1) 13 (1) |
| linquished by: (Signature) Michelle R Gonzales | Date 6-30-23 | Time 1615 | Received by Signature Man | Date 7/5/23 | Time 8:/5 | | T1 | | | | 100 | | | тз : | | | |
| linquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | | AVG 1 | Гетр | °c_4 | 4 | | | | | | | |
| mple Matrix: S - Soil, Sd - Solld, Sg - Sludge, A - Aqueous, O - Other | | | | Container Typ | e: g - gla: | ss, p | | | | | lass, v | v - VO | Ā | | | | |
| · · · · · · · · · · · · · · · · · · · | - | | arrangements are made. Hazardous sam this COC. The liability of the laboratory is | • | | | • | | e clien | t expe | nse. T | he rep | ort for | the anal | lysis of th | e above | |



Lab Use Only Lab WO# Job Number E 307003 0/058-0007

Metals 6010

VOC by 8260

втех by 8021

Analysis and Method

Printed: 7/5/2023 10:51:42AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client: | WPX Energy - Carlsbad | Date Received: | 07/05/23 | 08:15 | | Work Order ID: | E307003 |
|------------|---|------------------|----------|--------------------|---------|----------------|---------------|
| Phone: | (575) 200-6754 | Date Logged In: | 07/05/23 | 09:13 | | Logged In By: | Caitlin Mars |
| Email: | | Due Date: | | 17:00 (4 day TAT) | | Logged III Dy. | Cartini Mais |
| Linuii. | dima (geteenery, your | Due Date. | 07/11/23 | 17.00 (1 day 1111) | | | |
| Chain of | Custody (COC) | | | | | | |
| 1. Does t | he sample ID match the COC? | | Yes | | | | |
| | he number of samples per sampling site location mate | the COC | Yes | | | | |
| 3. Were s | samples dropped off by client or carrier? | | Yes | Carrier: C | Courier | | |
| 4. Was th | ne COC complete, i.e., signatures, dates/times, request | ed analyses? | Yes | - · · · · - | | | |
| 5. Were a | all samples received within holding time? | | Yes | | | | |
| | Note: Analysis, such as pH which should be conducted in | | | | | Comment | s/Resolution |
| Cample 7 | i.e, 15 minute hold time, are not included in this disucssion | n. | | | | Comment | 59 ACSOIGNION |
| | Furn Around Time (TAT) e COC indicate standard TAT, or Expedited TAT? | | Yes | | | | |
| | • | | 168 | | | | |
| Sample 0 | sample cooler received? | | Yes | | | | |
| | was cooler received in good condition? | | Yes | | | | |
| • 1 | u | | | | | | |
| | ne sample(s) received intact, i.e., not broken? | | Yes | | | | |
| | custody/security seals present? | | No | | | | |
| • | s, were custody/security seals intact? | | NA | | | | |
| 12. Was th | ne sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling | | Yes | | | | |
| 13. If no | visible ice, record the temperature. Actual sample t | temperature: 4°0 | <u>C</u> | | | | |
| Sample (| <u>Container</u> | | | | | | |
| 14. Are a | queous VOC samples present? | | No | | | | |
| 15. Are V | OC samples collected in VOA Vials? | | NA | | | | |
| 16. Is the | head space less than 6-8 mm (pea sized or less)? | | NA | | | | |
| 17. Was a | a trip blank (TB) included for VOC analyses? | | NA | | | | |
| 18. Are r | on-VOC samples collected in the correct containers? | | Yes | | | | |
| 19. Is the | appropriate volume/weight or number of sample contained | ers collected? | Yes | | | | |
| Field La | <u>bel</u> | | | | | | |
| | field sample labels filled out with the minimum infor | mation: | | | | | |
| | Sample ID? | | Yes | | | | |
| | Oate/Time Collected? Collectors name? | | Yes | | | | |
| | Preservation | | Yes | | | | |
| _ | the COC or field labels indicate the samples were pre | eserved? | No | | | | |
| | ample(s) correctly preserved? | | NA | | | | |
| | filteration required and/or requested for dissolved me | etals? | No | | | | |
| | ase Sample Matrix | | | | | | |
| _ | the sample have more than one phase, i.e., multiphase | e? | No | | | | |
| | s, does the COC specify which phase(s) is to be analyze | | NA | | | | |
| - | | | INA | | | | |
| | ract Laboratory | 0 | NT. | | | | |
| | amples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if | | No NA | Subcontract Lab | : NA | | |
| Client I | <u>nstruction</u> | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Date

Report to:
Anna Byers







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Toro 22-3H

Work Order: E307002

Job Number: 01058-0007

Received: 7/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/10/23

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Toro 22-3H

Workorder: E307002

Date Received: 7/5/2023 8:15:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/5/2023 8:15:00AM, under the Project Name: Toro 22-3H.

The analytical test results summarized in this report with the Project Name: Toro 22-3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | WPX Energy - Carlsbad | Project Name: | Toro 22-3H | Reported: |
|---|-----------------------|------------------|------------|----------------|
| ١ | 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported. |
| | Carlsbad NM, 88220 | Project Manager: | Anna Byers | 07/10/23 14:59 |

| Client Sample ID | Lab Sample ID Matrix | Sampled | Received | Container |
|------------------|----------------------|----------|----------|------------------|
| PH03 0.5' | E307002-01A Soil | 06/30/23 | 07/05/23 | Glass Jar, 2 oz. |
| PH03 10' | E307002-02A Soil | 06/30/23 | 07/05/23 | Glass Jar, 2 oz. |
| PH03 18' | E307002-03A Soil | 06/30/23 | 07/05/23 | Glass Jar, 2 oz. |



Sample Data

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 2:59:30PM |

PH03 0.5' E307002-01

| | E30/002-01 | | | | |
|--------|--|---|--|---|---|
| D 1: | | Dil di | D 1 | | N. |
| Result | Limit | Dilution | Prepared | Analyzed | Notes |
| mg/kg | mg/kg | Analy | st: IY | | Batch: 2327003 |
| ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| ND | 0.0500 | 1 | 07/05/23 | 07/06/23 | |
| ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| | 102 % | 70-130 | 07/05/23 | 07/06/23 | |
| mg/kg | mg/kg | Analy | st: IY | | Batch: 2327003 |
| ND | 20.0 | 1 | 07/05/23 | 07/06/23 | |
| | 86.9 % | 70-130 | 07/05/23 | 07/06/23 | |
| mg/kg | mg/kg | Analy | st: KM | | Batch: 2327033 |
| 161 | 50.0 | 2 | 07/06/23 | 07/08/23 | |
| 141 | 100 | 2 | 07/06/23 | 07/08/23 | |
| | 87.0 % | 50-200 | 07/06/23 | 07/08/23 | |
| mg/kg | mg/kg | Analy | st: BA | | Batch: 2327028 |
| 267 | 20.0 | 1 | 07/06/23 | 07/07/23 | |
| | ND ND ND ND ND ND ND Mg/kg ND mg/kg 161 141 | Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IO2 % mg/kg mg/kg mg/kg ND 20.0 86.9 % mg/kg mg/kg mg/kg 161 50.0 141 100 87.0 % mg/kg mg/kg mg/kg | Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 MD 0.0250 1 Mg/kg mg/kg Analy ND 20.0 1 86.9 % 70-130 mg/kg mg/kg Analy 161 50.0 2 141 100 2 87.0 % 50-200 Analy | Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 07/05/23 ND 0.0250 1 07/05/23 ND 0.0250 1 07/05/23 ND 0.0250 1 07/05/23 ND 0.0500 1 07/05/23 ND 0.0250 1 07/05/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/05/23 mg/kg mg/kg Analyst: KM 161 50.0 2 07/06/23 141 100 2 07/06/23 87.0 % 50-200 07/06/23 mg/kg Mg/kg Analyst: BA | Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 07/05/23 07/06/23 ND 0.0500 1 07/05/23 07/06/23 ND 0.0250 1 07/05/23 07/06/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/05/23 07/06/23 mg/kg mg/kg Analyst: KM ND 20.0 1 07/05/23 07/06/23 mg/kg mg/kg Analyst: KM Analyst: KM 07/06/23 07/08/23 mg/kg mg/kg Analyst: BA 07/06/23 07/08/23 07/08/23 mg/kg mg/kg Analyst: BA 07/06/23 07/08/23 07/08/23 |

Sample Data

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 2:59:30PM |

PH03 10'

| E30 | 70 | 02- | 02 |
|-----|----|-----|----|
|-----|----|-----|----|

| | | Reporting | | | | |
|--|--------|-----------|----------|------------|----------|----------------|
| Analyte | Result | Limit | Dilution | n Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Ana | alyst: IY | | Batch: 2327003 |
| Benzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Toluene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| o-Xylene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 07/05/23 | 07/06/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 101 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Ana | alyst: IY | | Batch: 2327003 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 87.0 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Ana | alyst: KM | | Batch: 2327033 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 07/06/23 | 07/08/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 07/06/23 | 07/08/23 | |
| Surrogate: n-Nonane | | 90.4 % | 50-200 | 07/06/23 | 07/08/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Ana | alyst: BA | | Batch: 2327028 |
| | 975 | 20.0 | | 07/06/23 | 07/07/23 | |



Sample Data

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 2:59:30PM |

PH03 18'

E307002-03

| | | Reporting | | | | |
|--|--------|-----------|---------|------------|----------|----------------|
| Analyte | Result | Limit | Dilutio | n Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | An | alyst: IY | | Batch: 2327003 |
| Benzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Toluene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| o-Xylene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 07/05/23 | 07/06/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 101 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | An | alyst: IY | | Batch: 2327003 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 87.9 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | An | alyst: KM | | Batch: 2327033 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 07/06/23 | 07/08/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 07/06/23 | 07/08/23 | |
| Surrogate: n-Nonane | | 81.6 % | 50-200 | 07/06/23 | 07/08/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | An | alyst: BA | | Batch: 2327028 |
| Chloride | 802 | 20.0 | 1 | 07/06/23 | 07/07/23 | |



| | | QC S | umma | iry Dat | a | | | | |
|--|--------|----------------------------------|----------------|------------------------|----------|---------------|-------------|--------------|---------------------|
| WPX Energy - Carlsbad 5315 Buena Vista Dr | | Project Name: Project Number: | | oro 22-3H .058-0007 | | | | | Reported: |
| Carlsbad NM, 88220 | | Project Manager: | Aı | nna Byers | | | | | 7/10/2023 2:59:30PM |
| | | Volatile O | rganics b | y EPA 802 | 21B | | | | Analyst: IY |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2327003-BLK1) | | | | | | | Prepared: 0 | 7/05/23 A | analyzed: 07/05/23 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| o,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.37 | | 8.00 | | 105 | 70-130 | | | |
| LCS (2327003-BS1) | | | | | | | Prepared: 0 | 7/05/23 A | analyzed: 07/05/23 |
| Benzene | 4.90 | 0.0250 | 5.00 | | 97.9 | 70-130 | | | |
| thylbenzene | 4.75 | 0.0250 | 5.00 | | 95.0 | 70-130 | | | |
| Toluene | 4.91 | 0.0250 | 5.00 | | 98.2 | 70-130 | | | |
| -Xylene | 4.89 | 0.0250 | 5.00 | | 97.8 | 70-130 | | | |
| ,m-Xylene | 9.84 | 0.0500 | 10.0 | | 98.4 | 70-130 | | | |
| Total Xylenes | 14.7 | 0.0250 | 15.0 | | 98.2 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.21 | | 8.00 | | 103 | 70-130 | | | |
| Matrix Spike (2327003-MS1) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 A | analyzed: 07/05/23 |
| Benzene | 4.76 | 0.0250 | 5.00 | ND | 95.3 | 54-133 | | | |
| Ethylbenzene | 4.64 | 0.0250 | 5.00 | 0.0264 | 92.3 | 61-133 | | | |
| Toluene | 4.84 | 0.0250 | 5.00 | 0.0757 | 95.3 | 61-130 | | | |
| -Xylene | 4.80 | 0.0250 | 5.00 | ND | 96.0 | 63-131 | | | |
| o,m-Xylene | 9.64 | 0.0500 | 10.0 | 0.0702 | 95.7 | 63-131 | | | |
| Total Xylenes | 14.4 | 0.0250 | 15.0 | 0.0702 | 95.8 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.15 | | 8.00 | | 102 | 70-130 | <u> </u> | | |
| Matrix Spike Dup (2327003-MSD1) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 A | analyzed: 07/05/23 |
| Benzene | 4.93 | 0.0250 | 5.00 | ND | 98.5 | 54-133 | 3.38 | 20 | |
| Ethylbenzene | 4.79 | 0.0250 | 5.00 | 0.0264 | 95.4 | 61-133 | 3.20 | 20 | |
| Toluene | 5.00 | 0.0250 | 5.00 | 0.0757 | 98.4 | 61-130 | 3.11 | 20 | |
| o-Xylene | 4.96 | 0.0250 | 5.00 | ND | 99.1 | 63-131 | 3.22 | 20 | |
| p,m-Xylene | 9.95 | 0.0500 | 10.0 | 0.0702 | 98.8 | 63-131 | 3.19 | 20 | |
| T . 137 1 | 140 | 0.0050 | 150 | 0.0702 | 00.0 | (2.121 | 2.20 | 20 | |

0.0702

98.9

101

63-131

70-130

3.20

20

15.0

8.00

14.9

8.08

0.0250



Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | Reported: |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 2:59:30PM |

| Carlsbad NM, 88220 | | Project Manage | | nna Byers | | | | 7. | /10/2023 2:59:30PN |
|---|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|-------------|-------------------|--------------------|
| | Non | halogenated | Organics l | by EPA 80 | 15D - Gl | RO | | | Analyst: IY |
| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
| Blank (2327003-BLK1) | | | | | | | Prepared: 0 | 7/05/23 Ana | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.69 | | 8.00 | | 83.6 | 70-130 | | | |
| LCS (2327003-BS2) | | | | | | | Prepared: 0 | 7/05/23 Ana | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 48.4 | 20.0 | 50.0 | | 96.8 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.20 | | 8.00 | | 90.0 | 70-130 | | | |
| Matrix Spike (2327003-MS2) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 Ana | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 48.7 | 20.0 | 50.0 | ND | 97.4 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.02 | | 8.00 | | 87.7 | 70-130 | | | |
| Matrix Spike Dup (2327003-MSD2) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 Ana | alyzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 47.4 | 20.0 | 50.0 | ND | 94.9 | 70-130 | 2.62 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.02 | | 8.00 | | 87.8 | 70-130 | | | |

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | Reported: |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 2:59:30PM |

| Carlsbad NM, 88220 | | Project Manage | r: Ar | ına Byers | | | | | 7/10/2023 2:59:30PM |
|---------------------------------|--------|--------------------|----------------|------------------|----------|---------------|-------------|--------------|---------------------|
| | Nonha | logenated Or | ganics by l | EPA 8015I |) - DRO | /ORO | | | Analyst: KM |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2327033-BLK1) | | | | | | | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Dil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 46.0 | | 50.0 | | 91.9 | 50-200 | | | |
| LCS (2327033-BS1) | | | | | | | Prepared: 0 | 7/06/23 A | nalyzed: 07/10/23 |
| Diesel Range Organics (C10-C28) | 239 | 25.0 | 250 | | 95.6 | 38-132 | | | |
| Gurrogate: n-Nonane | 45.4 | | 50.0 | | 90.8 | 50-200 | | | |
| Matrix Spike (2327033-MS1) | | | | Source: | E306236- | 04 | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | 366 | 25.0 | 250 | 93.6 | 109 | 38-132 | | | |
| Surrogate: n-Nonane | 41.0 | | 50.0 | | 81.9 | 50-200 | | | |
| Matrix Spike Dup (2327033-MSD1) | | | | Source: | E306236- | 04 | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | 383 | 25.0 | 250 | 93.6 | 116 | 38-132 | 4.62 | 20 | |
| Surrogate: n-Nonane | 42.0 | | 50.0 | | 84.1 | 50-200 | | | |

Chloride

QC Summary Data

| WPX Energy - Carlsbad 5315 Buena Vista Dr | | Project Name: Project Number: | | oro 22-3H 058-0007 | | | | | Reported: |
|--|--------|----------------------------------|----------------|-----------------------|----------|---------------|-------------|--------------|---------------------|
| Carlsbad NM, 88220 | | Project Manager | : Aı | nna Byers | | | | | 7/10/2023 2:59:30PM |
| | | Anions | by EPA 3 | 00.0/9056 | 4 | | | | Analyst: BA |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2327028-BLK1) | | | | | | | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2327028-BS1) | | | | | | | Prepared: 0 | 7/06/23 A | nalyzed: 07/07/23 |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2327028-MS1) | | | | Source: | E306247- | 01 | Prepared: 0 | 7/06/23 A | analyzed: 07/07/23 |
| Chloride | 277 | 20.0 | 250 | 28.9 | 99.3 | 80-120 | | | |
| Matrix Spike Dup (2327028-MSD1) | | | | Source: | E306247- | 01 | Prepared: 0 | 7/06/23 A | analyzed: 07/07/23 |

250

20.0

28.9

99.3

80-120

0.00794

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|-----------------------|------------------|------------|----------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 07/10/23 14:59 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



|] | |
|---|-----------|
| | Page |
| | 11 of 139 |

| Project In | nformation | | | | | (| Chain of Cust | ody | | | • | | | | | | | | | Page rogram SDWA |
|----------------------------|---|----------------|----------------------|--------------|---------------|---|-------------------|--------------------------------------|-------------------------------|----------------------|----------------|------------------------|----------------|-----------|-----|----------|-------------|---|----------|------------------|
| Client: W | PX Energy Pe | rmian LLC | <u></u> | | 200 | Bill To | | F : | | week. | Lah U | se O | nlv | me-kar | | | T | AT | EPA P | rogram |
| | Toro 22-3H | | | | | tention: Jim Raley | | | | | | Jse Only Job Number | | | | D 2D | | Standard | CWA | SDWA |
| | /lanager: Anna | Buyer | | | | ldress: 5315 Buena Vista Di | • | ٦Ē | 30 | 。 ず o |) 2 | 0 | 058- | 000 | | | | 5 day TAT | | 1 |
| | 13000 W Cou | | 00 | | Ci | ty, State, Zip: Carlsbad, NM | , 88220 | | | | | | | nd Met | | | • | 7 0 00 00 00 00 00 00 00 00 00 00 00 00 | | RCRA |
| City, Stat | e, Zip_Odessa | TX, 7976 | 55 | | | one: 575-885-7502 | - | | 盃 | . [| | | Ì | ГТ | | | | | | |
| Phone: (| 575) 200-6754 | | | | Er | nail: jim.raley@dvn.com | | | 8 | | | | 1 | | | | | | State | |
| | evon-team@e | | com | | w | O: EE.151032.01.ABD | | | Š | ٦ | | ۱. | 8 | 9 | | Σ | × | NM CO | UT AZ | TX |
| Collected | by: Edyte Ko | nan | | | In | cident ID: nOY1727952679 | | | ᇎᅝ | 8 | 826 | 0 | e 30 | | | | | | <u> </u> | |
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample II | D | | Lai Num | er (| Depth(ft.) TPH GRO/DRO/ORO by | 8015 atev hv 9021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | | верос | 2005 | | Remarks | • |
| 8:40 | 6/30/2023 | S | 1 | | | PH03 | | 0 | .5' | | | | | | | x | | | | |
| 8:50 | 6/30/2023 | S | 1 | | | PH03 | 2 | 1 | .0' | | | | | | | x | | | | |
| 9:00 | 6/30/2023 | S | 1 | | | PH03 | 3 | 1 | .8' | | | | | | | x | | | | |
| | | | | | | | | #3.0 10 40 30 30 | | | | | | | | | | | | |
| | | | | | · | | d to | tio fe | | | | | | | | | | | | |
| | | | | | | · | of the second | | | | | | | | | | | | | |
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| | | | | | g. 1 | | 2 | | | | | | | | | | | | | |
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| | | | | | | | | in a | | | | | | | | | | | | |
| Addition | al Instruction | s: | | | | | | | | | | | | | | | | | | |
| | oler), attest to the of collection is cor | = | | · · | | at tampering with or intentionally mis Sampled by: | labelling the sam | le locat | tion, | | | | | | | | | received on ice the da t less than 6 °C on sul | | |
| Relinquishe Edyte Konan | ed by: (Signature) | | Date 06/3 | 0/2023 | Time 14:20 | Received by: (Signature) MICHELLE R GONZA | Date 6-3 | 0-23 | | me 142 | 20 | Red | | l on ic | | Lab (| Jse Or N | nly | | |
| Relinquishe MiCh | ed by: (Signature) EUE R GON | zales | Date 6- | -30-23 | Time 1615 | Received My: Signature MCL | n 7/5 | , | | \$:13 | <u> </u> | T1. | | | _ 1 | ب 2 | | T3 | 20. | |
| Relinquishe | ed by: (Signature) | | Date | | Time | Received by: (Signature) | Date | | | me | | AV | G Ten | ıp°C_ | 4 | | | | | |
| ample Mati | rix: S - Soil, Sd - Sol | ld. Sg - Slude | e. A - Aqueo | us. O - Othe | <u></u> | | Conta | iner Ty | vpe: 1 | z - gla | ss, p - | | | Section 2 | mbe | r glass. | v - VO | A | | |



Printed: 7/5/2023 10:42:56AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

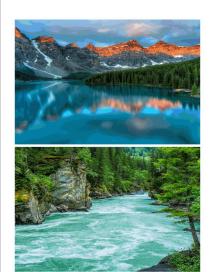
Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client: | WPX Energy - Carlsbad | Date Received: | 07/05/23 | 08:15 | | Work Order ID: | E307002 | |
|---------------|---|-----------------|-------------|-------------------|-----------|----------------|---------------|--|
| Phone: | (575) 200-6754 | Date Logged In: | 07/05/23 | 09:08 | | Logged In By: | Caitlin Mars | |
| Email: | | Due Date: | 07/11/23 | 17:00 (4 day TAT) | | | | |
| | | | | | | | | |
| | f Custody (COC) | | | | | | | |
| | the sample ID match the COC? | 1.4. 606 | Yes | | | | | |
| | the number of samples per sampling site location mate | the COC | Yes | | | | | |
| | samples dropped off by client or carrier? | | Yes | Carrier: C | Courier . | | | |
| | ne COC complete, i.e., signatures, dates/times, request | ted analyses? | Yes | | | | | |
| 5. Were | all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion. | | Yes | | | <u>Commen</u> | ts/Resolution | |
| | Turn Around Time (TAT) | | | | | | | |
| 6. Did th | e COC indicate standard TAT, or Expedited TAT? | | Yes | | | | | |
| Sample | | | | | | | | |
| 7. Was a | sample cooler received? | | Yes | | | | | |
| 8. If yes, | was cooler received in good condition? | | Yes | | | | | |
| 9. Was th | ne sample(s) received intact, i.e., not broken? | | Yes | | | | | |
| 10. Were | e custody/security seals present? | | No | | | | | |
| 11. If yes | s, were custody/security seals intact? | | NA | | | | | |
| | he sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample | received w/i 15 | Yes | | | | | |
| | Container | | | | | | | |
| | aqueous VOC samples present? | | No | | | | | |
| | VOC samples collected in VOA Vials? | | NA | | | | | |
| | e head space less than 6-8 mm (pea sized or less)? | | NA | | | | | |
| | a trip blank (TB) included for VOC analyses? | | NA | | | | | |
| | non-VOC samples collected in the correct containers? | | Yes | | | | | |
| | appropriate volume/weight or number of sample containers? | ara callactad? | Yes | | | | | |
| | | ers confected? | 108 | | | | | |
| Field La | e field sample labels filled out with the minimum infor | | | | | | | |
| | Sample ID? | illation. | Yes | | | | | |
| | Date/Time Collected? | | Yes | | | | | |
| | Collectors name? | | Yes | | | | | |
| Sample | Preservation_ | | | | | | | |
| 21. Does | s the COC or field labels indicate the samples were pre | eserved? | No | | | | | |
| 22. Are s | sample(s) correctly preserved? | | NA | | | | | |
| | o filteration required and/or requested for dissolved me | etals? | No | | | | | |
| Multiph | ase Sample Matrix | | | | | | | |
| | the sample have more than one phase, i.e., multiphas | e? | No | | | | | |
| | s, does the COC specify which phase(s) is to be analyze | | NA | | | | | |
| | | | 1471 | | | | | |
| | ract Laboratory | 2 | 3.7 | | | | | |
| | samples required to get sent to a subcontract laborator | • | No | | | | | |
| 29. Was | a subcontract laboratory specified by the client and if | so who? | NA | Subcontract Lab | : NA | | | |
| Client I | <u>Instruction</u> | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

Date

Report to:
Anna Byers







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Toro 22-3H

Work Order: E307004

Job Number: 01058-0007

Received: 7/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/10/23

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Toro 22-3H

Workorder: E307004

Date Received: 7/5/2023 8:15:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/5/2023 8:15:00AM, under the Project Name: Toro 22-3H.

The analytical test results summarized in this report with the Project Name: Toro 22-3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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labadmin@envirotech-inc.com

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Office: 505-421-LABS(5227)

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ljarboe@envirotech-inc.com

Rayny Hagan Technical Representative

West Texas Midland/Odessa Area

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

| _ | | | • | |
|---|-----------------------|--------------------------|------------|----------------|
| ſ | WPX Energy - Carlsbad | Project Name: Toro 22-3H | | Reported: |
| ı | 5315 Buena Vista Dr | Project Number: | 01058-0007 | Kepoi teu. |
| l | Carlsbad NM, 88220 | Project Manager: | Anna Byers | 07/10/23 15:03 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| PH03 21' | E307004-01A | Soil | 06/30/23 | 07/05/23 | Glass Jar, 2 oz. |



Sample Data

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 3:03:33PM |

PH03 21' E307004-01

| | | E307004-01 | | | | |
|--|--------|------------|----------|----------|----------|----------------|
| | | Reporting | | | | |
| Analyte | Result | Limit | Dilution | Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Anal | yst: IY | | Batch: 2327003 |
| Benzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Toluene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| p-Xylene | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| o,m-Xylene | ND | 0.0500 | 1 | 07/05/23 | 07/06/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 102 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Anal | yst: IY | | Batch: 2327003 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 07/05/23 | 07/06/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 88.0 % | 70-130 | 07/05/23 | 07/06/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Anal | yst: KM | | Batch: 2327033 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 07/06/23 | 07/08/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 07/06/23 | 07/08/23 | |
| Surrogate: n-Nonane | | 89.9 % | 50-200 | 07/06/23 | 07/08/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Anal | yst: BA | | Batch: 2327028 |
| Chloride | 287 | 20.0 | 1 | 07/06/23 | 07/07/23 | |
| | | | | | | |



| | | QC Si | umma | iry Dat | a | | | | |
|--|--------|-------------------------------|----------------|------------------------|------------|---------------|-------------|--------------|---------------------|
| WPX Energy - Carlsbad 5315 Buena Vista Dr | | Project Name: Project Number: | | oro 22-3H 1058-0007 | | | | | Reported: |
| Carlsbad NM, 88220 | | Project Manager: | | | Anna Byers | | | | 7/10/2023 3:03:33PM |
| | | Volatile O | rganics b | y EPA 802 | 21B | | | | Analyst: IY |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2327003-BLK1) | | | | | | | Prepared: 0 | 7/05/23 A | Analyzed: 07/05/23 |
| Benzene | ND | 0.0250 | | | | | | | <u> </u> |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.37 | | 8.00 | | 105 | 70-130 | | | |
| LCS (2327003-BS1) | | | | | | | Prepared: 0 | 7/05/23 A | Analyzed: 07/05/23 |
| Benzene | 4.90 | 0.0250 | 5.00 | | 97.9 | 70-130 | | | |
| Ethylbenzene | 4.75 | 0.0250 | 5.00 | | 95.0 | 70-130 | | | |
| Toluene | 4.91 | 0.0250 | 5.00 | | 98.2 | 70-130 | | | |
| p-Xylene | 4.89 | 0.0250 | 5.00 | | 97.8 | 70-130 | | | |
| o,m-Xylene | 9.84 | 0.0500 | 10.0 | | 98.4 | 70-130 | | | |
| Total Xylenes | 14.7 | 0.0250 | 15.0 | | 98.2 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.21 | | 8.00 | | 103 | 70-130 | | | |
| Matrix Spike (2327003-MS1) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 A | Analyzed: 07/05/23 |
| Benzene | 4.76 | 0.0250 | 5.00 | ND | 95.3 | 54-133 | | | |
| Ethylbenzene | 4.64 | 0.0250 | 5.00 | 0.0264 | 92.3 | 61-133 | | | |
| Toluene | 4.84 | 0.0250 | 5.00 | 0.0757 | 95.3 | 61-130 | | | |
| o-Xylene | 4.80 | 0.0250 | 5.00 | ND | 96.0 | 63-131 | | | |
| p,m-Xylene | 9.64 | 0.0500 | 10.0 | 0.0702 | 95.7 | 63-131 | | | |
| Total Xylenes | 14.4 | 0.0250 | 15.0 | 0.0702 | 95.8 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.15 | | 8.00 | | 102 | 70-130 | · | | |
| Matrix Spike Dup (2327003-MSD1) | | | | Source: | E306248- | 23 | Prepared: 0 | 7/05/23 A | Analyzed: 07/05/23 |
| Benzene | 4.93 | 0.0250 | 5.00 | ND | 98.5 | 54-133 | 3.38 | 20 | |
| Ethylbenzene | 4.79 | 0.0250 | 5.00 | 0.0264 | 95.4 | 61-133 | 3.20 | 20 | |
| Toluene | 5.00 | 0.0250 | 5.00 | 0.0757 | 98.4 | 61-130 | 3.11 | 20 | |
| o-Xylene | 4.96 | 0.0250 | 5.00 | ND | 99.1 | 63-131 | 3.22 | 20 | |
| p,m-Xylene | 9.95 | 0.0500 | 10.0 | 0.0702 | 98.8 | 63-131 | 3.19 | 20 | |
| Total Vylanas | 14.0 | 0.0250 | 15.0 | 0.0702 | 0.80 | 62 121 | 2.20 | 20 | |

0.0702

98.9

101

63-131

70-130

3.20

20

15.0

8.00

14.9

8.08

0.0250



Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | Reported: |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | • |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 3:03:33PM |

| Carlsbad NM, 88220 | | Project Manage | r: Ar | nna Byers | | | | 7/1 | 0/2023 3:03:33PM |
|---|-----------------|-----------------------------|-------------------------|---------------------------|-----------|--------------------|-------------|-------------------|------------------|
| | Non | halogenated | Organics l | by EPA 80 | 15D - GI | RO | | | Analyst: IY |
| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
| Blank (2327003-BLK1) | | | | | | | Prepared: 0 | 7/05/23 Anal | yzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.69 | | 8.00 | | 83.6 | 70-130 | | | |
| LCS (2327003-BS2) | | | | | | | Prepared: 0 | 7/05/23 Anal | yzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 48.4 | 20.0 | 50.0 | | 96.8 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.20 | | 8.00 | | 90.0 | 70-130 | | | |
| Matrix Spike (2327003-MS2) | | | | Source: | E306248-2 | 23 | Prepared: 0 | 7/05/23 Anal | yzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 48.7 | 20.0 | 50.0 | ND | 97.4 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.02 | | 8.00 | | 87.7 | 70-130 | | | |
| Matrix Spike Dup (2327003-MSD2) | | | | Source: | E306248-2 | 23 | Prepared: 0 | 7/05/23 Anal | yzed: 07/05/23 |
| Gasoline Range Organics (C6-C10) | 47.4 | 20.0 | 50.0 | ND | 94.9 | 70-130 | 2.62 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.02 | | 8.00 | | 87.8 | 70-130 | | | |

| WPX Energy - Carlsbad | Project Name: | Toro 22-3H | Reported: |
|-----------------------|------------------|------------|---------------------|
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 7/10/2023 3:03:33PM |

| Carlsbad NM, 88220 | | Project Manage | r: Ar | nna Byers | | | | | 7/10/2023 3:03:33PM |
|--|--------|--------------------|----------------|------------------|--------------------|---------------|-------------|--------------|---------------------|
| Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: KM | | | | | | | | | |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2327033-BLK1) | | | | | | | Prepared: 0 | 7/06/23 A | Analyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 46.0 | | 50.0 | | 91.9 | 50-200 | | | |
| LCS (2327033-BS1) | | | | | | | Prepared: 0 | 7/06/23 A | Analyzed: 07/10/23 |
| Diesel Range Organics (C10-C28) | 239 | 25.0 | 250 | | 95.6 | 38-132 | | | |
| Surrogate: n-Nonane | 45.4 | | 50.0 | | 90.8 | 50-200 | | | |
| Matrix Spike (2327033-MS1) | | | | Source: | Source: E306236-04 | | Prepared: 0 | 7/06/23 A | Analyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | 366 | 25.0 | 250 | 93.6 | 109 | 38-132 | | | |
| Surrogate: n-Nonane | 41.0 | | 50.0 | | 81.9 | 50-200 | | | |
| Matrix Spike Dup (2327033-MSD1) | | | | Source: | E306236- | 04 | Prepared: 0 | 7/06/23 A | Analyzed: 07/07/23 |
| Diesel Range Organics (C10-C28) | 383 | 25.0 | 250 | 93.6 | 116 | 38-132 | 4.62 | 20 | |
| Surrogate: n-Nonane | 42.0 | | 50.0 | | 84.1 | 50-200 | | | |

Matrix Spike Dup (2327028-MSD1)

Chloride

QC Summary Data

| WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220 | | Project Name: Project Number: Project Manager | 01 | oro 22-3H 058-0007 nna Byers | | | | | Reported: 7/10/2023 3:03:33PM |
|--|-----------------|---|-------------------------|------------------------------------|----------|--------------------|-------------|-------------------|--------------------------------------|
| Anions by EPA 300.0/9056A | | | | | | | Analyst: BA | | |
| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
| Blank (2327028-BLK1) Prepared: 07/06/23 Analyzed: 07/07/23 | | | | | | nalyzed: 07/07/23 | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2327028-BS1) | | | | | | | Prepared: 0 | 7/06/23 Aı | nalyzed: 07/07/23 |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2327028-MS1) | | | | Source: E306247-01 | | | Prepared: 0 | 7/06/23 Aı | nalyzed: 07/07/23 |
| Chloride | 277 | 20.0 | 250 | 28.9 | 99.3 | 80-120 | | | |

250

20.0

Source: E306247-01

99.3

80-120

0.00794

28.9

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 07/06/23 Analyzed: 07/07/23

20

Definitions and Notes

| | WPX Energy - Carlsbad | Project Name: | Toro 22-3H | |
|---|-----------------------|------------------|------------|----------------|
| - | 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| | Carlsbad NM, 88220 | Project Manager: | Anna Byers | 07/10/23 15:03 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



7/26/2023

10:20:59 AM

7 ō

Page

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

envirotech Inc.

Printed: 7/5/2023 9:18:37AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client: | WPX Energy - Carlsbad | Date Received: | 07/05/23 (| 08:15 | Worl | k Order ID: | E307004 |
|------------|---|-------------------|------------|-------------------|--------------|-------------|--------------|
| Phone: | (575) 200-6754 | Date Logged In: | 07/05/23 (| 09:16 | Logs | ged In By: | Caitlin Mars |
| Email: | anna@etechenv.vom | Due Date: | 07/11/23 1 | 17:00 (4 day TAT) | | | |
| | | | | | | | |
| Chain of | Custody (COC) | | | | | | |
| | ne sample ID match the COC? | | Yes | | | | |
| | ne number of samples per sampling site location ma | tch the COC | Yes | | | | |
| | amples dropped off by client or carrier? | | Yes | Carrier: Co | <u>urier</u> | | |
| | e COC complete, i.e., signatures, dates/times, reques | sted analyses? | Yes | | | | |
| 5. Were a | Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi | • | Yes | | | Comments | /Resolution |
| Sample T | <u>urn Around Time (TAT)</u> | | | Γ | | | |
| 6. Did the | COC indicate standard TAT, or Expedited TAT? | | Yes | | | | |
| Sample C | | | | | | | |
| | sample cooler received? | | Yes | | | | |
| 8. If yes, | was cooler received in good condition? | | Yes | | | | |
| 9. Was the | e sample(s) received intact, i.e., not broken? | | Yes | | | | |
| 10. Were | custody/security seals present? | | No | | | | |
| 11. If yes | , were custody/security seals intact? | | NA | | | | |
| | e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample | e received w/i 15 | Yes C | | | | |
| Sample C | | | _ | | | | |
| | queous VOC samples present? | | No | | | | |
| | OC samples collected in VOA Vials? | | NA | | | | |
| | head space less than 6-8 mm (pea sized or less)? | | NA | | | | |
| | trip blank (TB) included for VOC analyses? | | NA | | | | |
| | on-VOC samples collected in the correct containers | ? | Yes | | | | |
| | appropriate volume/weight or number of sample contain | | Yes | | | | |
| Field Lal | · · · | | | | | | |
| | field sample labels filled out with the minimum info | ormation: | | | | | |
| | ample ID? | | Yes | | | | |
| | ate/Time Collected? | | Yes | L | | | |
| C | ollectors name? | | Yes | | | | |
| | reservation | | | | | | |
| | the COC or field labels indicate the samples were pr | reserved? | No | | | | |
| | ample(s) correctly preserved? | . 1.0 | NA | | | | |
| 24. Is lab | filteration required and/or requested for dissolved n | netals? | No | | | | |
| | se Sample Matrix | | | | | | |
| | the sample have more than one phase, i.e., multipha | | No | | | | |
| 27. If yes | , does the COC specify which phase(s) is to be analy | yzed? | NA | | | | |
| Subcontr | act Laboratory | | | | | | |
| 28. Are sa | amples required to get sent to a subcontract laborato | ry? | No | | | | |
| 29. Was a | subcontract laboratory specified by the client and it | f so who? | NA | Subcontract Lab: | NA | | |
| Client Ir | nstruction_ | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Date

Signature of client authorizing changes to the COC or sample disposition.

APPENDIX G

NMOCD Correspondence

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Anna Byers

From: Raley, Jim < Jim.Raley@dvn.com>
Sent: Wednesday, May 17, 2023 4:17 PM

To: Anna Byers

Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (1/3 -1/6)

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Raley, Jim <Jim.Raley@dvn.com>
Date: Wednesday, May 17, 2023 at 1:38 PM
To: Joseph Hernandez <joseph@etechenv.com>

Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (1/3 -1/6)

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Erick Herrera <eherrera@ensolum.com>
Date: Wednesday, December 28, 2022 at 3:43 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>, 'CFO_Spill, BLM_NM' < blm_nm_cfo_spill@blm.gov>

Cc: Raley, Jim <Jim.Raley@dvn.com>, Devon Team <Devon-Team@ensolum.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (1/3 -1/6)

Good Afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between January 3 – January 6, 2023:

Site Name: Toro 22-3H API: 30-025-35253

Incident Number: nOY1727952679

Thank you,



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

Erick Herrera

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Sent: Tuesday, June 27, 2023 11:53 AM

To: Erick Herrera

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (6/29-6/30)

Erick,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov





From: Erick Herrera <erick@etechenv.com> Sent: Monday, June 26, 2023 3:43 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (6/29-6/30)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX also anticipates conducting confirmation soil sampling activities at the following site between June 29 – June 30, 2023.

Site Name: Toro 22-3 API: 30-025-35253

Incident Number: nOY1727952679

Thank you,

Erick Herrera

Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Joseph Hernandez

From: Joseph Hernandez

Sent: Tuesday, June 27, 2023 10:12 AM

To: Raley, Jim
Cc: Anna Byers

Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID:

219749

Joseph S. Hernandez

Senior Managing Geologist



Work: (432) 305-6413 Cell: (281) 702-2329

From: Joseph Hernandez

Sent: Monday, June 26, 2023 5:36 PM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Cc: Anna Byers <anna@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: Re: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 219749

Nelson,

We will proceed with your recommended approach with advancement to same total depth to confirm chloride concentrations. We will include that data in the revised report.

Thanks

Sent from my iPhone

On Jun 26, 2023, at 4:53 PM, Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov > wrote:

Hey Joe,

Thanks for the notification. Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Talked with my supervisor last week about the email write up you suggested and he directed me not to do so.

Please proceed with whatever approach you feel can adequately define the lateral and vertical extent of the impacts.

If you have any questions or concerns, please contact me via email or telephone #.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/ <Outlook-kagggro0.png>

From: Joseph Hernandez <joseph@etechenv.com>

Sent: Monday, June 26, 2023 3:09 PM

To: Velez, Nelson, EMNRD < Nelson.Velez@emnrd.nm.gov >

Cc: Anna Byers <anna@etechenv.com>

Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application

ID: 219749

Hi Nelson,

We were going to perform the sampling as you requested this Thursday or Friday. Did you send the email with conditions/summary we discussed?

Thanks,

Joseph S. Hernandez

Senior Managing Geologist <image001.png>

Work: (432) 305-6413 Cell: (281) 702-2329

From: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >

Sent: Wednesday, June 21, 2023 11:40 AM

To: Joseph Hernandez < joseph@etechenv.com>

Cc: Anna Byers < anna@etechenv.com >

Subject: Re: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application

ID: 219749

Joseph,

We can discuss tomorrow. Hrs. available between 8-10 am & 12:00-2:30 pm.

Let me know what time. Thanks.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/ <image002.png>

From: Joseph Hernandez < joseph@etechenv.com >

Sent: Wednesday, June 21, 2023 10:31 AM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >

Cc: Anna Byers <anna@etechenv.com>

Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application

ID: 219749

Nelson,

I'm assisting Jim Raley with this project - do you have time tomorrow to discuss this denial?

Thanks,

Joseph S. Hernandez

Senior Managing Geologist <image001.png>

Work: (432) 305-6413 Cell: (281) 702-2329

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Tuesday, June 20, 2023 2:12 PM **To:** Raley, Jim < <u>Jim.Raley@dvn.com</u>>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID:

219749

To whom it may concern (c/o James Raley for WPX Energy Permian, LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nOY1727952679, for the following reasons:

1. Site assessment has not been fully delineated horizontally or vertically. 2. Site characterization data incomplete. Please provide supporting documentation for those items missing from the list on page 3 of Form C-141 in next submittal or final closure report. 3. Once bullet #1 has been achieved, operator is required to re-submit its revised remediation plan or final closure report. 4. Operator has 90 days (September 18, 2023) to fully delineate, re-submit its remediation plan, or submit final closure report.

Horizontal delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 219749.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Nelson Velez
Environmental Specialist - Advanced
505-469-6146
Nelson.Velez@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

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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

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 244562

CONDITIONS

| Operator: | OGRID: |
|---------------------------|---|
| WPX Energy Permian, LLC | 246289 |
| Devon Energy - Regulatory | Action Number: |
| Oklahoma City, OK 73102 | 244562 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | | Condition Date |
|---------------|------|-------------------|
| nvelez | None | 7/31/2023 |