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

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| Incident ID | nAPP2100547196 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party XTO Energy | OGRID 5380 |
|---|--------------------------------|
| Contact Name Kyle Littrell | Contact Telephone 432-221-7331 |
| Contact email Kyle_Littrell@xtoenergy.com | Incident # (assigned by OCD) |
| Contact mailing address 522 W. Mermod, Carlsbad, NM 88220 | |

Location of Release Source

Latitude 32.15411

| Longitude | -104.01620 |
|--------------------------------------|-------------|
| NAD 83 in decimal degrees to 5 decir | nal places) |

| 1 | 0 | |
|---|---|--|

| Site Name Goldenchild | Site Type _{SWD} |
|------------------------------------|--------------------------|
| Date Release Discovered 12/22/2020 | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------------|--------|
| Р | 06 | 258 | 29 E | Eddy |

Surface Owner: X State Federal Tribal Private (Name: _

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
|------------------------|---|--|
| X Produced Water | Volume Released (bbls) 14 | Volume Recovered (bbls) 14 |
| | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | Yes No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |
| Cause of Release LO di | iscovered a leak in a Victaulic connection on water dump | b line from tester going to the storage tanks. Victaulic |

Tee had a hole in a groove caused by internal corrosion. Vacuum truck was dispatched and recovered all fluids. A 48-hour liner inspection notification was sent to NMOCD District 2. Liner was inspected and determined not to be operating as designed. A third-party contractor has been retained for remediation activities.

| Form C-141 | State of New Mexico | | 1 |
|------------|---------------------|----------------|----------------|
| | | Incident ID | nAPP2100547196 |
| Page 2 | | District RP | |
| | | Facility ID | |
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| | | | |

| Was this a major release as defined by 19.15.29.7(A) NMAC? | If YES, for what reason(s) does the responsible party consider this a major release? N/A | |
|--|---|--|
| 🗋 Yes 🛛 No | | |
| If YES, was immediate no N/A | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \mathbf{X} The source of the release has been stopped.

X The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

NA

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: Kyle Littrell | Title: |
|------------------------------------|------------|
| Signature: Jelled | Date: |
| email: Kyle_Littrell@xtoenergy.com | Telephone: |
| | |
| OCD Only | |
| Received by: | Date: |
| | |

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Page 3

Oil Conservation Division

| | Page 3 of 4 |
|----------------|----------------|
| Incident ID | nAPP2100547196 |
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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.

- 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 ¹/₂-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 | nAPP2100547196 |
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| | | | Facility ID | |
| | | | Application ID | |
| regulations all operators a public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Signature: email:Kyle_Li | formation given above is true and comp re required to report and/or file certain r onment. The acceptance of a C-141 report tigate and remediate contamination that to of a C-141 report does not relieve the content <u></u> | elease notifications and perform control by the OCD does not relieve the pose a threat to groundwater, surf operator of responsibility for comparator of responsibility for comparator of responsibility for comparator of the second sec | corrective actions for rele te operator of liability sho ace water, human health oliance with any other feo Supervisor | ases which may endanger ould their operations have or the environment. In deral, state, or local laws |
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Oil Conservation Division

| Incident ID | nAPP2100547196 |
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| District RP | |
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Closure

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

| <u>Closure Report Attachment Checklist</u> : Each of the following i | tems must be included in the closure report. |
|---|---|
| A scaled site and sampling diagram as described in 19.15.29.1 | 11 NMAC |
| Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection) | of the liner integrity if applicable (Note: appropriate OCD District office |
| Laboratory analyses of final sampling (Note: appropriate ODC | C District office must be notified 2 days prior to final sampling) |
| Description of remediation activities | |
| | |
| and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of | ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in |
| Printed Name: Kyle Littrell | Title:SH&E Supervisor |
| Printed Name: Kyle Littrell Signature: Kyle Character | Date: <u>03/09/2021</u> |
| email:Kyle_Littrell@xtoenergy.com | Telephone:432-221-7331 |
| | |
| OCD Only | |
| Received by: Chad Hensley | Date: 04/16/2021 |
| | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations. |
| Closure Approved by: | Date:04/16/2021 |
| Printed Name: Chad Hensley | Title: Environmental Specialist Advanced |
| | |

WSP USA

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

March 10, 2021

District II New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

Re: Closure Request Goldenchild SWD Incident Number nAPP2100547196 Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Goldenchild SWD (Site) located in Unit P, Section 06, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following the release of produced water within lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number nAPP2100547196.

RELEASE BACKGROUND

On December 22, 2020, a connection on a water dump line developed a corrosion hole, which resulted in the release of approximately 14 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; all 14 bbls of the released produced water were recovered from within the lined containment. A 48-hour advance notice of liner inspection was provided via email to New Mexico Oil Conservation Division (NMOCD) District II office. A liner integrity inspection was conducted by XTO personnel following the fluid recovery and upon inspection, the liner was determined to be insufficient. XTO reported the release to the NMOCD on a Release Notification Form C-141 on January 5, 2021. The release was assigned Incident Number nAPP2100547196.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *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). Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well

vsp

District II Page 2

C-01880, located approximately 0.57 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 40 feet bgs and a total depth of 85 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and referenced well records are provided in Attachment 1.

During November 2020, in an effort to confirm depth to water in the area, a borehole (C-04493) was advanced to a depth of 57 feet bgs via truck-mounted sonic drill rig. The borehole was located approximately 0.1 miles south of the Site. The location of borehole C-04493 is provided on Figure 1. A WSP geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is approximately 39 feet bgs. The borehole was properly abandoned with hydrated bentonite chips.

The closest continuously flowing water or significant watercourse to the Site is the Pecos River, located approximately 0.3 miles west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- TPH: 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On February 8, 2021, WSP personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel advanced one borehole (BH01) via hand-auger at the location of the tear in the liner identified during the liner integrity inspection. Two soil samples were collected from borehole BH01 at depths of approximately 0.5 feet and 1-foot bgs. Soil from the borehole was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log and are included as Attachment



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2. The borehole was backfilled with the soil removed and XTO repaired the tear in the liner. The borehole delineation soil sample location is depicted on Figure 2. Photographic documentation was conducted during the Site visit. The photographic log is included in Attachment 3.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples BH01 and BH01A, collected at depths of approximately 0.5 feet and 1-foot bgs, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Attachment 4.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, WSP personnel advanced one borehole (BH01) at the location of the tear in the liner to assess for the presence or absence of soil impacts resulting from the December 22, 2020 produced water release within lined containment. Two delineation soil samples were collected from borehole BH01 at depths of approximately 0.5 feet and 1-foot bgs. Laboratory analytical results indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, field screening of soil from the borehole indicated no elevated volatile aromatic hydrocarbons or chloride concentrations beneath the tear in the liner. The release was contained laterally by the lined containment and all released fluids were recovered during initial response activities. The tear in the liner was subsequently repaired.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria directly below the tear in the liner, XTO respectfully requests NFA for Incident Number nAPP2100547196.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

WSP USA Inc.

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District II Page 4

Kaleb Henry

Ashley L. Ager

Ashley L. Ager, P.G. Managing Director, Geologist

Kaleb Henry Assistant Consultant, Geophysicist

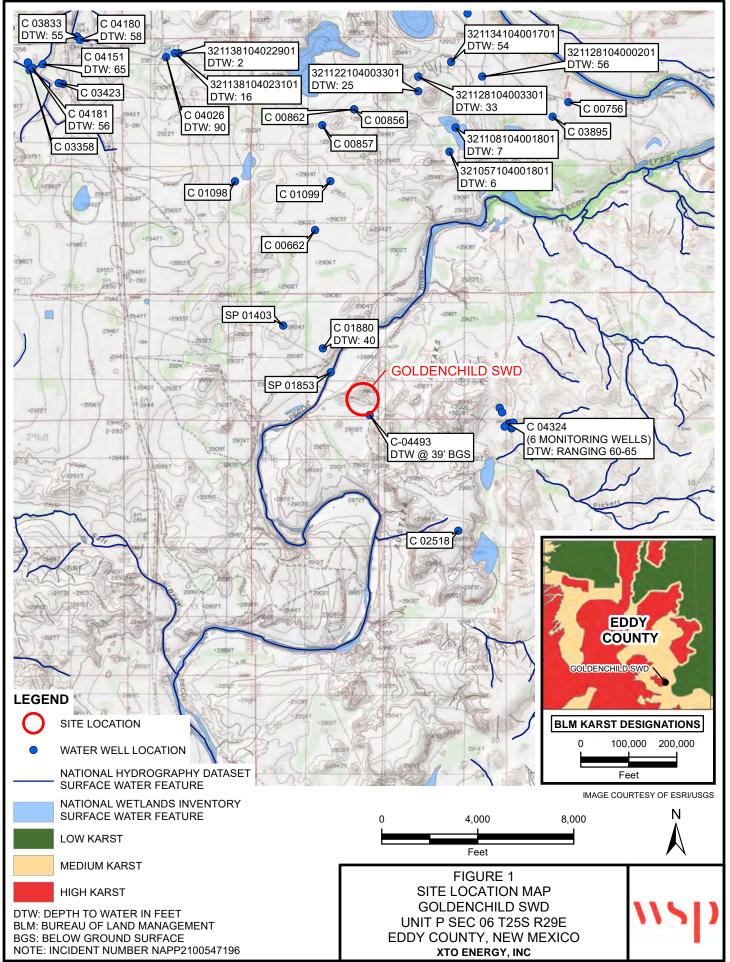
cc: Kyle Littrell, XTO Ryan Mann, New Mexico State Land Office

Attachments:

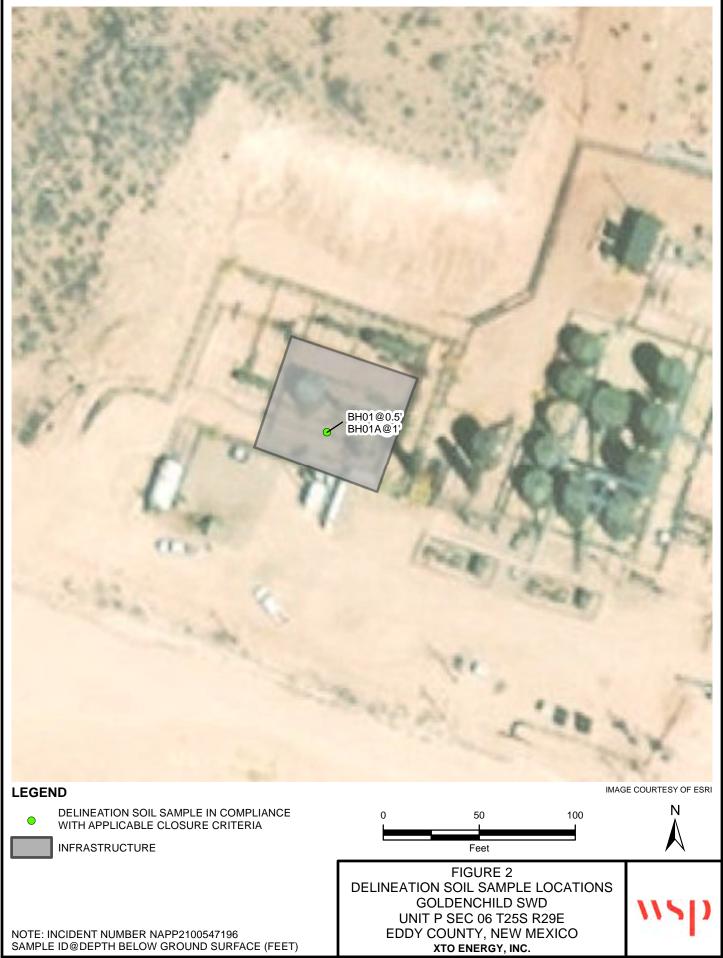
- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Lithologic/Sampling Logs
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports

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TABLES

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Table 1

Soil Analytical Results Goldenchild SWD Incident Number nAPP2100547196 Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft bgs) | Benzene (mg/kg) | BTEX (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) | TPH-ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|----------------------------|--------------------|--------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-----------------------------|----------------|---------------------|
| NMOCD Table 1 Clo | osure Criteria (NM | AC 19.15.29) | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| Delineation Samples | | | | | | | | | | |
| BH01 | 02/08/2021 | 0.5 | < 0.00198 | < 0.00198 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 211 |
| BH01A | 02/08/2021 | 1 | < 0.00199 | < 0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 35.7 |

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

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WATER RIGHT SUMMARY

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New Mexico Office of the State Engineer **Point of Diversion Summary**

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WATER RIGHT SUMMARY

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New Mexico Office of the State Engineer Point of Diversion Summary

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| Noisture Content | Chloride (ppm) | n) | Staining | Sample # | Sample | Depth | USCS/Rock Symbol | | | | Backfill / |
| Sont | hlo (pp | Vapor (ppm) | tair | amp | Depth | (ft bgs) | SS/ | | Lithology/Rem | arks | Well |
| <u>s</u> 0 | 0 | /) | Ś | So | (ft bgs) | | N N N | | | | Completion |
| | | | | | | 0 | | CALICHE | , moist, light brown, u | nconsolidated. no | |
| | | | | | | | | stain, no o | | , - | |
| Μ | 257.6 | 0.0 | Ν | BH01 | 0.5' | 0.5 | | | | | |
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| М | <168 | 0.0 | Ν | BH01A | 1' | 1 | | | | | |
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Received by OCD: 3/19/2021 11:22:36 AM

Released to Imaging: 4/16/2021 1:23:23 PM

wsp

| | PHOTOGRAPHIC LOG | |
|------------------|-------------------------|-------------|
| XTO Energy, Inc. | Goldenchild SWD | TE012921017 |
| | Eddy County, New Mexico | |

| Photo No. | Date | Tra.= |
|----------------|------------------|-------|
| 1 | February 8, 2021 | |
| Location of te | ear in liner and | |
| proposed b | orehole site. | H |
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Received by OCD: 3/19/2021 11:22:36 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-159-1

Laboratory Sample Delivery Group: TE012921017 Client Project/Site: Goldenchild SWD Spill Date (12-22-20)

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Dan Moir

Aðetlun

Authorized for release by: 2/9/2021 4:39:44 PM Kathleen Robb, Client Program Manager (949)261-1022 Kathleen.Robb@eurofinset.com

Designee for

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS **Review your project** results through Total Access **Have a Question?** Ask-The

www.eurofinsus.com/Env Released to Imaging: 4/16/2021 1:23:23 PM

Visit us at:

Expert

SDG: TE012921017

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| | |

MCL

MDA

MDC

MDL

ML MPN

MQL

NC

ND

NEG

POS

PQL

QC RER

RL RPD

TEF

TEQ

TNTC

PRES

EPA recommended "Maximum Contaminant Level"

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

Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive **Quality Control**

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

| eceived by OCI | D: 3/19/2021 11:22:36 AM | Page 27 of | °47 |
|--------------------------------|---|---------------------------------------|-----|
| | Definitions/Glossary | | |
| Client: WSP Project/Site: 0 | JSA Inc. Goldenchild SWD Spill Date (12-22-20) | Job ID: 890-159-1 SDG: TE012921017 | 2 |
| Qualifiers | | | 3 |
| GC VOA Qualifier | Qualifier Description | | 4 |
| U | Indicates the analyte was analyzed for but not detected. | | |
| GC Semi VO | | | 5 |
| Qualifier | Qualifier Description | | |
| U | Indicates the analyte was analyzed for but not detected. | | |
| HPLC/IC Qualifier | Qualifier Description | | |
| U | Indicates the analyte was analyzed for but not detected. | | |
| Glossary | | | 8 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | | 9 |
| ¤ | 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 | | 13 |
| DLC | Decision Level Concentration (Radiochemistry) | | |
| EDL | Estimated Detection Limit (Dioxin) | | |
| LOD | Limit of Detection (DoD/DOE) | | |
| LOQ | Limit of Quantitation (DoD/DOE) | | |

Case Narrative

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20)

Job ID: 890-159-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-159-1

Comments

No additional comments.

Receipt

The samples were received on 2/8/2021 3:46 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

GC VOA

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

GC Semi VOA No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

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

Organic Prep

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

Job ID: 890-159-1 SDG: TE012921017

Client Sample Results

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20)

Client Sample ID: BH01 Date Collected: 02/08/21 10:20 Date Received: 02/08/21 15:46

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:20 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:20 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:20 | 1 |
| Total BTEX | <0.00198 | U | 0.00198 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:20 | 1 |
| Xylenes, Total | <0.00198 | U | 0.00198 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:20 | 1 |
| m,p-Xylenes | <0.00396 | U | 0.00396 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:20 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 99 | | 70 - 130 | | | 02/08/21 16:22 | 02/08/21 22:20 | 1 |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | | 02/08/21 16:22 | 02/08/21 22:20 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
|----------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|--|
| C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/09/21 08:19 | 02/09/21 11:32 | 1 | |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | 02/09/21 08:19 | 02/09/21 11:32 | 1 | |
| >C10-C28 | <49.9 | U | 49.9 | mg/Kg | | 02/09/21 08:19 | 02/09/21 11:32 | 1 | |
| >C28-C35 | <49.9 | U | 49.9 | mg/Kg | | 02/09/21 08:19 | 02/09/21 11:32 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1-Chlorooctane | 93 | | 70 - 135 | | | 02/09/21 08:19 | 02/09/21 11:32 | 1 | |
| o-Terphenyl | 90 | | 70 - 135 | | | 02/09/21 08:19 | 02/09/21 11:32 | 1 | |
| | | | | | | | | | |

| Method: 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | | |
|--|------------------|------|-------|---|----------|----------------|---------|--|--|--|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | | |
| Chloride | 211 | 9.98 | mg/Kg | · | | 02/09/21 10:57 | 1 | | | |

Client Sample ID: BH01 A Date Collected: 02/08/21 10:31 Date Received: 02/08/21 15:46

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | < 0.00199 | U | 0.00199 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:43 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:43 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:43 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:43 | 1 |
| Xylenes, Total | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:43 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:43 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/21 16:22 | 02/08/21 22:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | | | 70 - 130 | | | 02/08/21 16:22 | 02/08/21 22:43 | 1 |
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | | | 02/08/21 16:22 | 02/08/21 22:43 | 1 |

| Method: 8015B NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | | | |
|---|--------|-----------|------|-------|---|----------------|----------------|---------|--|--|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | | |
| C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 02/09/21 08:19 | 02/09/21 11:52 | 1 | | | |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 02/09/21 08:19 | 02/09/21 11:52 | 1 | | | |
| >C10-C28 | <50.0 | U | 50.0 | mg/Kg | | 02/09/21 08:19 | 02/09/21 11:52 | 1 | | | |
| >C28-C35 | <50.0 | U | 50.0 | mg/Kg | | 02/09/21 08:19 | 02/09/21 11:52 | 1 | | | |

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Job ID: 890-159-1 SDG: TE012921017

Lab Sample ID: 890-159-1

Matrix: Solid

| 02/06/21 10.22 | 02/00/21 22.20 | 1 |
|----------------|----------------|---------|
| 02/08/21 16:22 | 02/08/21 22:20 | 1 |
| Prepared | Analyzed | Dil Fac |
| 02/08/21 16:22 | 02/08/21 22:20 | 1 |
| 02/08/21 16:22 | 02/08/21 22:20 | 1 |
| | | |
| Prepared | Analyzed | Dil Fac |
| 02/09/21 08:19 | 02/09/21 11:32 | 1 |
| 02/09/21 08:19 | 02/09/21 11:32 | 1 |
| 02/09/21 08:19 | 02/09/21 11:32 | 1 |
| 02/09/21 08:19 | 02/09/21 11:32 | 1 |
| Prepared | Analyzed | Dil Fac |
| 02/09/21 08:19 | 02/09/21 11:32 | 1 |
| 02/09/21 08:19 | 02/09/21 11:32 | 1 |
| Durand | | |
| | | |

Lab Sample ID: 890-159-2

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20)

Client Sample ID: BH01 A Date Collected: 02/08/21 10:31

| Date Received: 02/08/2 | 21 15:46 | | | | | | | |
|----------------------------------|-----------|---------------------------------------|------------|-------|---|----------------|----------------|--------|
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 1-Chlorooctane | 97 | | 70 - 135 | | | 02/09/21 08:19 | 02/09/21 11:52 | 1 |
| o-Terphenyl | 97 | | 70 - 135 | | | 02/09/21 08:19 | 02/09/21 11:52 | 1 |
| Method: 300.0 - Anior Analyte | | p <mark>hy - Solu</mark> Qualifier | ible RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Chloride | 35.7 | | 9.96 | mg/Kg | | | 02/09/21 11:03 | |

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 Job ID: 890-159-1

 SDG: TE012921017

 Lab Sample ID: 890-159-2

 Matrix: Solid

 Matrix: Solid

 Prepared

 02/09/21 08:19

 02/09/21 08:19

 02/09/21 08:19

 02/09/21 11:52

 1

Surrogate Summary

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20)

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | |
|-------------------|------------------------|--|----------|--|--|--|--|--|
| | | DFBZ1 | BFB1 | | | | | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | | | | | |
| 890-158-A-1-L MS | Matrix Spike | 97 | 99 | | | | | |
| 890-158-A-1-M MSD | Matrix Spike Duplicate | 94 | 101 | | | | | |
| 890-159-1 | BH01 | 99 | 103 | | | | | |
| 890-159-2 | BH01 A | 101 | 107 | | | | | |
| LCS 890-194/2-B | Lab Control Sample | 94 | 93 | | | | | |
| LCSD 890-194/3-B | Lab Control Sample Dup | 97 | 96 | | | | | |
| MB 890-194/1-B | Method Blank | 101 | 107 | | | | | |

Surrogate Legend

DFBZ = 1,4-Difluorobenzene

BFB = 4-Bromofluorobenzene (Surr)

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

| | | | rcent Surrogate Recovery (Acceptance Limits) | | |
|-------------------|------------------------|----------|--|--|---|
| | | 1CO1 | OTPH1 | | |
| Lab Sample ID | Client Sample ID | (70-135) | (70-135) | | |
| 890-158-A-1-O MS | Matrix Spike | 113 | 102 | | - |
| 890-158-A-1-P MSD | Matrix Spike Duplicate | 114 | 102 | | |
| 890-159-1 | BH01 | 93 | 90 | | |
| 890-159-2 | BH01 A | 97 | 97 | | |
| LCS 890-214/2-A | Lab Control Sample | 108 | 98 | | |
| LCSD 890-214/3-A | Lab Control Sample Dup | 101 | 91 | | |
| MB 890-214/1-A | Method Blank | 91 | 89 | | |

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl 5 6 7

SDG: TE012921017

Prep Type: Total/NA

Prep Type: Total/NA

Job ID: 890-159-1

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Lab Sample ID: MB 890-194/1-B

QC Sample Results

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20)

Method: 8021B - Volatile Organic Compounds (GC)

| Matrix: Solid Analysis Batch: 210 | | | | | | | Prep Type: To Prep Bate | |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------------------|---------|
| - | MB | МВ | | | | | - | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/21 16:22 | 02/08/21 20:05 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/21 16:22 | 02/08/21 20:05 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/21 16:22 | 02/08/21 20:05 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/21 16:22 | 02/08/21 20:05 | 1 |
| Xylenes, Total | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/21 16:22 | 02/08/21 20:05 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | mg/Kg | | 02/08/21 16:22 | 02/08/21 20:05 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/21 16:22 | 02/08/21 20:05 | 1 |
| | МВ | МВ | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 101 | | 70 - 130 | | | 02/08/21 16:22 | 02/08/21 20:05 | 1 |
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | | | 02/08/21 16:22 | 02/08/21 20:05 | 1 |

Lab Sample ID: LCS 890-194/2-B **Matrix: Solid Analysis Batch: 210**

| | Spike | LCS | LCS | | | | %Rec. | |
|--------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.1156 | | mg/Kg | | 116 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.1182 | | mg/Kg | | 118 | 71_129 | |
| Toluene | 0.100 | 0.1177 | | mg/Kg | | 118 | 70 - 130 | |
| m,p-Xylenes | 0.200 | 0.2399 | | mg/Kg | | 120 | 70 - 135 | |
| o-Xylene | 0.100 | 0.1170 | | mg/Kg | | 117 | 71 - 133 | |

| | LCS | LCS | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,4-Difluorobenzene | 94 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 |

Lab Sample ID: LCSD 890-194/3-B Matrix: Solid Analysis Batch: 210

| Analysis Batch: 210 | | | | | | | Prep | D Batch | 1: 194 |
|---------------------|-------|----------|-----------|-------|---|------|----------|---------|--------|
| | Spike | LCSD I | LCSD | | | | %Rec. | | RPD |
| Analyte | Added | Result (| Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.1036 | | mg/Kg | | 104 | 70 - 130 | 11 | 35 |
| Ethylbenzene | 0.100 | 0.1035 | | mg/Kg | | 104 | 71 - 129 | 13 | 35 |
| Toluene | 0.100 | 0.1027 | | mg/Kg | | 103 | 70 - 130 | 14 | 35 |
| m,p-Xylenes | 0.200 | 0.2059 | | mg/Kg | | 103 | 70 - 135 | 15 | 35 |
| o-Xylene | 0.100 | 0.1045 | | mg/Kg | | 105 | 71 - 133 | 11 | 35 |
| | | | | | | | | | |

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

| Lab Sample ID: 890-158-A-1-L MS Matrix: Solid Analysis Batch: 210 | | | | | | | C | lient Sa | · Prep Typ | latrix Spike be: Total/NA Batch: 194 |
|---|---------------------------|-----------|-------|-------------------------|-----------|---------------|----------|-------------|--------------------|--|
| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
| Analyte Benzene | Result <0.00198 | Qualifier | Added | Result 0.1036 | Qualifier | Unit mg/Kg | <u>D</u> | %Rec 104 | Limits 70 - 130 | |

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5

Prep Type: Total/NA Prep Batch: 194

Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Pren Batch: 194

QC Sample Results

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20)

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

97

99

| Lab Sample ID: 890-158 Matrix: Solid Analysis Batch: 210 | -A-1-L MS | | | | | | CI | ient Sa | ample ID: Matrix Spik Prep Type: Total/N Prep Batch: 19 | |
|--|-----------|-----------|--------|---------|-----------|-------|----|---------|---|--|
| - | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Ethylbenzene | <0.00198 | U | 0.0998 | 0.1007 | | mg/Kg | | 101 | 71 - 129 | |
| Toluene | <0.00198 | U | 0.0998 | 0.1018 | | mg/Kg | | 102 | 70 - 130 | |
| m,p-Xylenes | <0.00396 | U | 0.200 | 0.1982 | | mg/Kg | | 99 | 70 - 135 | |
| o-Xylene | <0.00198 | U | 0.0998 | 0.09725 | | mg/Kg | | 97 | 71 - 133 | |
| | MS | MS | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |

70 - 130 70 - 130

| Lab Sample ID: 890-158-A-1-M MSD |
|----------------------------------|
| Matrix: Solid |
| Analysis Batch: 210 |

1,4-Difluorobenzene

4-Bromofluorobenzene (Surr)

| Analysis Batch: 210 | | | | | | | | | Prep | Batch | |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-------|-------|
| - | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00198 | U | 0.0998 | 0.1081 | | mg/Kg | | 108 | 70 - 130 | 4 | 35 |
| Ethylbenzene | <0.00198 | U | 0.0998 | 0.09539 | | mg/Kg | | 96 | 71 - 129 | 5 | 35 |
| Toluene | <0.00198 | U | 0.0998 | 0.1031 | | mg/Kg | | 103 | 70 - 130 | 1 | 35 |
| m,p-Xylenes | <0.00396 | U | 0.200 | 0.1934 | | mg/Kg | | 97 | 70 - 135 | 2 | 35 |
| o-Xylene | <0.00198 | U | 0.0998 | 0.09881 | | mg/Kg | | 99 | 71 - 133 | 2 | 35 |
| | MSD | MSD | | | | | | | | | |

| | 11/30 | MIGD . | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,4-Difluorobenzene | 94 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 |

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

Lab Sample ID: MB 890-214/1-A Matrix: Solid Analysis Batch: 215

| MB | MB | | | | | | |
|--------|-----------------------------------|--|---|--|--|---|--|
| Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| <50.0 | U | 50.0 | mg/Kg | | 02/09/21 08:19 | 02/09/21 09:29 | 1 |
| <50.0 | U | 50.0 | mg/Kg | | 02/09/21 08:19 | 02/09/21 09:29 | 1 |
| <50.0 | U | 50.0 | mg/Kg | | 02/09/21 08:19 | 02/09/21 09:29 | 1 |
| <50.0 | U | 50.0 | mg/Kg | | 02/09/21 08:19 | 02/09/21 09:29 | 1 |
| | Result <50.0 <50.0 <50.0 | MB MB Result Qualifier <50.0 | Result Qualifier RL <50.0 | Result Qualifier RL Unit <50.0 | Result Qualifier RL Unit D <50.0 | Result Qualifier RL Unit D Prepared <50.0 | Result Qualifier RL Unit Prepared Analyzed <50.0 |

| | MB | МВ | | | | |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 91 | | 70 - 135 | 02/09/21 08:19 | 02/09/21 09:29 | 1 |
| o-Terphenyl | 89 | | 70 - 135 | 02/09/21 08:19 | 02/09/21 09:29 | 1 |

Lab Sample ID: LCS 890-214/2-A Matrix: Solid 045

| Analysis Batch: 215 | | | | | | Prep Batch: 214 |
|---------------------|------|----------|-------------|--------|------|-----------------|
| | Spik | e LCS | LCS | | | %Rec. |
| Analyte | Adde | d Result | Qualifier L | Jnit D | %Rec | Limits |
| C6-C10 | 100 | 0 1016 | n | ng/Kg | 102 | 70 - 135 |
| >C10-C28 | 100 | 0 1012 | n | ng/Kg | 101 | 70 - 135 |

Prep Type: Total/NA

Job ID: 890-159-1

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 214

QC Sample Results

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20)

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

Job ID: 890-159-1 SDG: TE012921017

| Lab Sample ID: LCS 89 | 0-214/2-A | | | | | Clien | t Sai | mple ID | : Lab Cor | ntrol Sa | ample |
|--|-------------|-----------|----------|-------|-----------|------------|-------|----------|-------------|----------|--------|
| Matrix: Solid | | | | | | | | | Prep Ty | | |
| Analysis Batch: 215 | | | | | | | | | | Batch | |
| | | | | | | | | | | | |
| | | LCS | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 108 | | 70 - 135 | | | | | | | | |
| p-Terphenyl | 98 | | 70 - 135 | | | | | | | | |
| _ab Sample ID: LCSD 8 | 90-214/3-A | | | | C | Client Sar | nple | ID: Lab | Control | Sample | e Dup |
| Matrix: Solid | | | | | | | | | Prep Ty | | |
| Analysis Batch: 215 | | | | | | | | | | Batch | |
| ····· , ··· · · · · · · · · · · · · · · · · · | | | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| nalyte | | | Added | | Qualifier | Unit | D | %Rec | Limits | RPD | Limi |
| c6-C10 | | | 1000 | 969.0 | | mg/Kg | | 97 | 70 - 135 | 5 | - 25 |
| C10-C28 | | | 1000 | 977.0 | | mg/Kg | | 98 | 70 - 135 | 4 | 25 |
| | | | | 20 | | | | | | • | _` |
| | LCSD | | | | | | | | | | |
| urrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| -Chlorooctane | 101 | | 70 - 135 | | | | | | | | |
| -Terphenyl | 91 | | 70 - 135 | | | | | | | | |
| ab Sample ID: 890-158 | 8-A-1-0 MS | | | | | | CI | ient Sa | mple ID: I | Matrix | Snike |
| latrix: Solid | | | | | | | | | Prep Ty | | |
| Analysis Batch: 215 | | | | | | | | | | b Batch | |
| | Sample | Sample | Spike | MS | MS | | | | %Rec. | Butor | |
| nalyte | - | Qualifier | Added | | Qualifier | Unit | D | %Rec | Limits | | |
| 6-C10 | <50.0 | | 997 | 1020 | | mg/Kg | | 102 | 70 - 135 | | |
| otal TPH | <50.0 | | 1990 | 2033 | | mg/Kg | | 0 | | | |
| C10-C28 | <50.0 | | 997 | 1013 | | mg/Kg | | 98 | 70 - 135 | | |
| | | | | | | | | | 10 100 | | |
| | | MS | | | | | | | | | |
| urrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| -Chlorooctane | 113 | | 70 - 135 | | | | | | | | |
| -Terphenyl | 102 | | 70 - 135 | | | | | | | | |
| ab Sample ID: 890-158 | B-A-1-P MSD | | | | | Client S | amp | le ID: N | latrix Spil | ke Dup | licate |
| Aatrix: Solid | | | | | | | | | Prep Ty | | |
| Analysis Batch: 215 | | | | | | | | | | o Batch | |
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
| nalyte | | Qualifier | Added | | Qualifier | Unit | D | %Rec | Limits | RPD | Limi |
| 6-C10 | <50.0 | U | 995 | 1068 | | mg/Kg | | 107 | 70 - 135 | 5 | 35 |
| otal TPH | <50.0 | U | 1990 | 2118 | | mg/Kg | | 0 | | NC | |
| C10-C28 | <50.0 | U | 995 | 1050 | | mg/Kg | | 102 | 70 - 135 | 4 | 35 |
| | MSD | MSD | | | | | | | | | |
| urrogate | %Recovery | | Limits | | | | | | | | |
| -Chlorooctane | | | 70 - 135 | | | | | | | | |
| | | | | | | | | | | | |

4 5 6

7

QC Sample Results

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20) Job ID: 890-159-1 SDG: TE012921017

Method: 300.0 - Anions, Ion Chromatography

| Lab Sample ID: MB 890-1 | 97/1-A | | | | | | | | C | Clie | nt Sam | ple ID: M | | |
|--------------------------|------------------|-------------------|--------|----------------|------|--------|------------------|---------|----------|----------|----------|-----------------|----------|--------------|
| Matrix: Solid | | | | | | | | | | | | Prep T | ype: So | oluble |
| Analysis Batch: 218 | | мв м | - | | | | | | | | | | | |
| Analyte | Pa | MB Mi sult Qu | - | | RL | | Unit | | D | Dre | epared | Analy | rod | Dil Fac |
| Chloride | | 10.0 U | uaimei | | 10.0 | | 0m/ mg/K | a | <u> </u> | FIG | epareu | 02/09/21 | | 1 |
| | | 10.0 0 | | | 10.0 | | ing/i | 9 | | | | 02/00/21 | 10.20 | |
| Lab Sample ID: LCS 890- | 197/2-A | | | | | | | Cli | ent S | Sam | ple ID: | Lab Cor | ntrol Sa | ample |
| Matrix: Solid | | | | | | | | | | | | Prep T | ype: So | oluble |
| Analysis Batch: 218 | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | %Rec. | | |
| Analyte | | | | Added | | Result | Qualifier | Unit | | D | %Rec | Limits | | |
| Chloride | | | | 500 | | 525.6 | | mg/Kg | | | 105 | 90 - 110 | | |
| | 407/0 4 | | | | | | | | | | | 0 | . | - D |
| Lab Sample ID: LCSD 89 | 0-197/3-A | | | | | | | lient S | samp | | D: Lab | Control | | |
| Matrix: Solid | | | | | | | | | | | | Prep T | ype: So | oluble |
| Analysis Batch: 218 | | | | Spike | | | LCSD | | | | | %Rec. | | RPD |
| Analyte | | | | Added | | - | Qualifier | Unit | | D | %Rec | %Rec. | RPD | Limit |
| Chloride | | | | 500 | | 523.6 | Quaimer | mg/Kg | | <u> </u> | 105 | 90 - 110 | 0 | 20 |
| | | | | 500 | | 525.0 | | mg/ng | | | 105 | 30-110 | 0 | 20 |
| Lab Sample ID: 890-158-/ | A-1-E MS | | | | | | | | | Cli | ent Sai | nple ID: | Matrix | Spike |
| Matrix: Solid | | | | | | | | | | | | Prep T | | |
| Analysis Batch: 218 | | | | | | | | | | | | | | |
| - | Sample | Sample | e | Spike | | MS | MS | | | | | %Rec. | | |
| Analyte | Result | Qualifi | er | Added | | Result | Qualifier | Unit | | D | %Rec | Limits | | |
| Chloride | <10.0 | U | | 500 | | 528.4 | | mg/Kg | | | 104 | 90 - 110 | | |
| Lab Sample ID: 890-158-/ | | | | | | | | Clien | t Sar | nnl | ס ום M | atrix Spil | | licato |
| | | | | | | | | onen | t Oui | npr | C 1D. 10 | Prep T | | |
| | | | | | | | | | | | | | , | |
| Matrix: Solid | | | | | | | | | | | | | | |
| | Sample | Sample | e | Spike | | MSD | MSD | | | | | %Rec. | | RPD |
| Matrix: Solid | Sample Result | Sample Qualifi | | Spike Added | | | MSD Qualifier | Unit | | D | %Rec | %Rec. Limits | RPD | RPD Limit |

QC Association Summary

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20)

GC VOA

Prep Batch: 194

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-159-1 | BH01 | Total/NA | Solid | 5030C | |
| 890-159-2 | BH01 A | Total/NA | Solid | 5030C | |
| MB 890-194/1-B | Method Blank | Total/NA | Solid | 5030C | |
| LCS 890-194/2-B | Lab Control Sample | Total/NA | Solid | 5030C | |
| LCSD 890-194/3-B | Lab Control Sample Dup | Total/NA | Solid | 5030C | |
| 890-158-A-1-L MS | Matrix Spike | Total/NA | Solid | 5030C | |
| 890-158-A-1-M MSD | Matrix Spike Duplicate | Total/NA | Solid | 5030C | |

Analysis Batch: 210

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-159-1 | BH01 | Total/NA | Solid | 8021B | 194 |
| 890-159-2 | BH01 A | Total/NA | Solid | 8021B | 194 |
| MB 890-194/1-B | Method Blank | Total/NA | Solid | 8021B | 194 |
| LCS 890-194/2-B | Lab Control Sample | Total/NA | Solid | 8021B | 194 |
| LCSD 890-194/3-B | Lab Control Sample Dup | Total/NA | Solid | 8021B | 194 |
| 890-158-A-1-L MS | Matrix Spike | Total/NA | Solid | 8021B | 194 |
| 890-158-A-1-M MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 194 |

GC Semi VOA

Prep Batch: 214

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 890-159-1 | BH01 | Total/NA | Solid | 8015NM Prep | |
| 890-159-2 | BH01 A | Total/NA | Solid | 8015NM Prep | |
| MB 890-214/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 890-214/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 890-214/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-158-A-1-O MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-158-A-1-P MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 215

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-159-1 | BH01 | Total/NA | Solid | 8015B NM | 214 |
| 890-159-2 | BH01 A | Total/NA | Solid | 8015B NM | 214 |
| MB 890-214/1-A | Method Blank | Total/NA | Solid | 8015B NM | 214 |
| LCS 890-214/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 214 |
| LCSD 890-214/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 214 |
| 890-158-A-1-O MS | Matrix Spike | Total/NA | Solid | 8015B NM | 214 |
| 890-158-A-1-P MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 214 |

HPLC/IC

Leach Batch: 197

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-159-1 | BH01 | Soluble | Solid | DI Leach | |
| 890-159-2 | BH01 A | Soluble | Solid | DI Leach | |
| MB 890-197/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 890-197/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 890-197/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-158-A-1-E MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-158-A-1-F MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Eurofins Xenco, Carlsbad

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Job ID: 890-159-1 SDG: TE012921017

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QC Association Summary

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20)

HPLC/IC

Analysis Batch: 218

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-159-1 | BH01 | Soluble | Solid | 300.0 | 197 |
| 890-159-2 | BH01 A | Soluble | Solid | 300.0 | 197 |
| MB 890-197/1-A | Method Blank | Soluble | Solid | 300.0 | 197 |
| LCS 890-197/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 197 |
| LCSD 890-197/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 197 |
| 890-158-A-1-E MS | Matrix Spike | Soluble | Solid | 300.0 | 197 |
| 890-158-A-1-F MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 197 |

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Job ID: 890-159-1 SDG: TE012921017

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20)

Client Sample ID: BH01 Date Collected: 02/08/21 10:20 Date Received: 02/08/21 15:46

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5030C | | | 194 | 02/08/21 16:22 | MC | XC |
| Total/NA | Analysis | 8021B | | 1 | 210 | 02/08/21 22:20 | PXS | XC |
| Total/NA | Prep | 8015NM Prep | | | 214 | 02/09/21 08:19 | | XC |
| Total/NA | Analysis | 8015B NM | | 1 | 215 | 02/09/21 11:32 | BJH | XC |
| Soluble | Leach | DI Leach | | | 197 | 02/08/21 17:20 | MC | XC |
| Soluble | Analysis | 300.0 | | 1 | 218 | 02/09/21 10:57 | JM | XC |

Client Sample ID: BH01 A Date Collected: 02/08/21 10:31 Date Received: 02/08/21 15:46

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Prep Туре | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5030C | | | 194 | 02/08/21 16:22 | MC | XC |
| Total/NA | Analysis | 8021B | | 1 | 210 | 02/08/21 22:43 | PXS | XC |
| Total/NA | Prep | 8015NM Prep | | | 214 | 02/09/21 08:19 | | XC |
| Total/NA | Analysis | 8015B NM | | 1 | 215 | 02/09/21 11:52 | BJH | XC |
| Soluble | Leach | DI Leach | | | 197 | 02/08/21 17:20 | MC | XC |
| Soluble | Analysis | 300.0 | | 1 | 218 | 02/09/21 11:03 | JM | XC |

Laboratory References:

XC = Eurofins Xenco, Carlsbad, 1089 N Canal St., Carlsbad, NM 88220, TEL (575)988-3199

9

5

Lab Sample ID: 890-159-2 Matrix: Solid

Lab Sample ID: 890-159-1

2/9/2021

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Job ID: 890-159-1 SDG: TE012921017 Matrix: Solid

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20) Job ID: 890-159-1 SDG: TE012921017

Laboratory: Eurofins Xenco, Carlsbad

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

| Authority | | Program | Identification Number | Expiration Date |
|--|----------------------------|--------------------------------|---|--|
| ouisiana | | NELAP | 05092 | 06-30-21 |
| The following analytes the agency does not o | | eport, but the laboratory is r | not certified by the governing authority. | This list may include analytes for which |
| Analysis Method | Prep Method | Matrix | Analyte | |
| 8015B NM | 8015NM Prep | Solid | >C10-C28 | |
| | | 0-11-1 | >C28-C35 | |
| 8015B NM | 8015NM Prep | Solid | 2020-035 | |
| 8015B NM 8015B NM | 8015NM Prep 8015NM Prep | Solid | Total TPH | |

Eurofins Xenco, Carlsbad

5 6 7

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Method Summary

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20) Job ID: 890-159-1 SDG: TE012921017

| Method | Method Description | Protocol | Laboratory |
|------------|------------------------------------|----------|------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | XC |
| 3015B NM | Diesel Range Organics (DRO) (GC) | SW846 | XC |
| 300.0 | Anions, Ion Chromatography | MCAWW | XC |
| 030C | Purge and Trap | SW846 | XC |
| 015NM Prep | Microextraction | SW846 | XC |
| OI Leach | Deionized Water Leaching Procedure | ASTM | XC |

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.

Laboratory References:

XC = Eurofins Xenco, Carlsbad, 1089 N Canal St., Carlsbad, NM 88220, TEL (575)988-3199

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc. Project/Site: Goldenchild SWD Spill Date (12-22-20) Job ID: 890-159-1 SDG: TE012921017

| _ab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID | |
|---------------|------------------|--------|----------------|----------------|----------|---|
| 390-159-1 | BH01 | Solid | 02/08/21 10:20 | 02/08/21 15:46 | | |
| 890-159-2 | BH01 A | Solid | 02/08/21 10:31 | 02/08/21 15:46 | | |
| | | | | | | 2 |
| | | | | | | |
| | | | | | | |
| | | | | | | 8 |
| | | | | | | 9 |
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Eurofins Xenco, Carlsbad

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| | Line (Jue Units 1:0 | Relinquished by: (Signature) Received by: (Signature) | Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al State State | | | BH01A s 2/8/2021 10:31 1 1 1 | 10:20 0.5' | Sample Identification Matrix Sampled Sampled Depth | Data Timo | s: Yes (No/ N/A Total Containers: 2 | Seals: Yes No N/A Correction Factor: -0.2 | Ne No TANINITIA | CEIPT Temp Blank: We No Wi | Sampler's Name: Travis Casey Due Date: | ň | Project Name: Goldenchild SWD Spill Date(12-22-20) Turn Around | Phone: (432) 704-5178 Email: travis.casey@wsp.com. | City, State ZIP: Midland, TX 79705 City, State ZIP: C | Address: 3300 North A St. Bldg 1, Unit 222 Address: 3 | WSP USA Inc., Permian office Company Name: | Project Manager: Kalei Jennings Bill to: (if different) K | Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) | Houston, TX (281) 240-4200 Dalla | Ch | |
|--------------------------------|----------------------|---|---|--|--|--|------------------------------|------------|--|-----------|-------------------------------------|---|-----------------|----------------------------|--|---|--|--|---|---|--|---|---|---|------------------|--|
| 0 | 292012102 | Time | company to Xenco, its affiliates and subcontractors. It assigns s or expenses incurred by the client if such losses are due to c ad to Xenco, but not analyzed. These terms will be enforced ur | Sb As Ba Be B Cd Ca Cr C Sb As Ba Be Cd Cr Ce Cu I | | | × × | ××× | TPH BTE Chlo | K (EF | PA 8 | 021) | | | | | ANALYSIS REQUEST | .com, kalei.jennings@wsp.com, dan.moir@w | Carlsbad, NM | 3104 E Greene St. | XTO Energy | | Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 75-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) | Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 | Chain of Custody | |
| | | ure) Received by: (Signature) | standard terms and conditions incumstances beyond the control iless previously negotiated. | Mg Mn Mo Ni K Se Ag SiO2 i Se Ag TI U | | | | | | | lab, i | TAT start | | | | | | Deliverables: EDD ADaPT LJ | | | PRP prownfields | Work Order Comments | szo-zooo) www.xenco.com rage | 890-159 Chain of Custody | × | |
| Revised Date 051418 Rev 2018.1 | | Date/Time | | Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg | | | Discrete | | Sample Comments 1 | | lab, if received by 4:30pm | | | | | | Work Order Notes | Other: | | _ | | 5 | | | 2021 | |

Released to Imaging: 4/16/2021 1:23:23 PM

2/9/2021

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9 10 11 12 13 14

Login Sam

Client: WSP USA Inc.

Login Number: 159 List Number: 1 Creator: Clifton, Cloe

Question

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromise tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

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9 10 11 12 13 14

Login Sam

Client: WSP USA Inc.

Login Number: 159 List Number: 1 Creator: Clifton, Cloe

Question

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received an

Page 45 of 47

5 9 10 11 12 13 14

Login Sam

Client: WSP USA Inc.

Login Number: 159 List Number: 1 Creator: Clifton, Cloe

Question

Samples are received within Holding Time (excluding tests with HTs) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used.

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Login Sam

Client: WSP USA Inc.

Login Number: 159 List Number: 1 Creator: Clifton, Cloe

Question

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any reque $\ensuremath{\mathsf{MSDs}}$

Containers requiring zero headspace have no headspace or bul <6mm (1/4").

CONDITIONS

Action 21392

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 <u>District IV</u> 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 OF APPROVAL

| | OGRID: | Action Number: | Action Type: |
|--|-----------|----------------|--------------|
| XTO ENERGY, INC 6401 Holiday Hill Road | 5380 | 21392 | C-141 |
| Building #5 Midland, TX79707 | | | |
| | | | |
| OCD Reviewer | Condition | | |
| chensley | None | | |