T 512.329.6080

TRCcompanies.com



April 29, 2024

Mr. Michael Buchanan Environmental Specialist Environmental Bureau REVIEWED

By Mike Buchanan at 1:53 pm, Jun 11, 2024

505 East Huntland Dr.

Austin, TX 78752

Suite 250

New Mexico Energy, Minerals and Natural Resources Department – Oil Conservation Division 8801 Horizon Boulevard NE STE 260 Albuquerque, New Mexico 87113

Re: 2023 Annual Groundwater Monitoring Report WTX to EMSU Battery to Byrd Pump Segment Crude Oil Release Review of the 2023 Annual Groundwater Monitoring NMOCD Incident No. NOY1822242858 Report for WTX to EMSU Battery to Byrd Pump Unit P, Section 11, Township 20S, Range 36E Segment: Content Satisfactory Latitude 32.583874, Longitude -103.317460 1. Continue to conduct groundwater monitoring at the Lea County, New Mexico site for all wells on a quarterly basis, as well as gauging LNAPL. Dear Mr. Buchanan: 2. Propose an abatement plan to OCD if LNAPL is persistent in wells, as absorbent socks are not

On behalf of Holly Energy Partners – Operating, L.P. (H Considered an abatement nethod ation (TRC) is providing this 2023 Annual Groundwater Monitoring R summarize the 2023 groundwater monitoring activitie to Byrd Pump Segment gathering line (Site) in accordance with the April 1, 2025. WTX to EMSU Battery to Ryrd Pump Segment gathering line (Site) in accordance with the April 1, 2022, *Remediation Workplan Addendum* (Workplan Addendum), which was approved by New Mexico Oil Conservation Division (NMOCD) on April 5, 2022. Remediation at the Site is being conducted to address remaining affected soil associated with a gathering line release discovered by HEP in 2018.

The Site is located on private property owned by L&K Ranch, LLC, near County Road 46 in Lea County, New Mexico. The Site is located within Unit P, Section 11, Township 20 South, Range 36 East, at latitude 32.583874, longitude -103.317460. The Site location is depicted on a topographic map presented as Figure 1.

BACKGROUND

Quarterly groundwater monitoring activities were conducted during 2023 in accordance with the April 2022 Workplan Addendum. While previous groundwater assessment results indicated groundwater beneath the Site has not been affected by the 2018 release from the Byrd Pump Segment gathering line, quarterly groundwater monitoring was proposed at the Site as a conservative measure to monitor groundwater quality during implementation of the soil remedies described in the April 2022 Workplan Addendum. As documented in the October 12, 2022, *Remediation and Bioventing Pilot Test Summary and Full-Scale Bioventing System Recommendation Report* (Bioventing Recommendation Report), soil remediation activities (i.e., excavation and bioventing pilot test) commenced at the Site in August 2022 and quarterly groundwater sampling commenced at the Site during the third quarter of 2022. Prior to the

approval of the April 2022 Workplan Addendum, three groundwater sampling events were conducted from November 2020 to October 2021 as part of assessment activities.

Initial full-scale bioventing system installation activities (installation and completion of bioventing wells) commenced at the Site in May 2023 in accordance with the October 2022 Bioventing Recommendation Report, which was approved by NMOCD on November 28, 2022. The 2023 bioventing well installation activities are further discussed below. Quarterly groundwater monitoring activities will be conducted in 2024 and will be continued during operation of the planned bioventing system, as appropriate.

Copies of e-mail correspondence with NMOCD are included in Attachment A.

GROUNDWATER MONITORING ACTIVITIES

Quarterly groundwater monitoring activities were conducted on February 22 and 23, 2023, June 20, 2023, September 14, 2023, and December 13, 2023. Additionally, a follow-up gauging event was conducted on October 17, 2023, to confirm the September 2023 gauging data. During each event, an oil-water interface probe was used to measure static depth to groundwater and depth to light non-aqueous phase liquid (LNAPL), if present, to the nearest 0.01 foot in each monitoring well (MW-01 through MW-05). Measurements were used to determine the groundwater elevation, seasonal groundwater elevation trends, and groundwater flow direction and gradient. Fluid level measurement data is presented in Table 1.

Monitoring wells MW-01 through MW-05 were purged and sampled using low-flow, low-stress sampling techniques during each quarterly groundwater monitoring event with exception of well MW-01 during the September and December 2023 groundwater monitoring events. An electric, submersible, variable-rate pump and clean discharge tubing were slowly lowered into each well to prevent turbulence and mixing of any sediment from the bottom of the well. The pump was placed in the approximate center of the saturated screened interval and groundwater was purged at a low rate to minimize groundwater level drawdown in the well. Discharge tubing was connected to a flow-through cell which housed a multi-parameter water quality meter. Groundwater quality parameters were measured approximately every three to five minutes during purging until at least three of the six recorded field parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) were stable. Monitoring well depth to groundwater and pump flow rate were also monitored during purging. Groundwater quality parameters are presented on the groundwater monitoring field forms included as Attachment B. The flow-through cell was disconnected, and a groundwater sample was collected from the discharge line of the pump once field parameters were stable. Samples were collected in clean, labeled, laboratorysupplied containers.

During the September 2023 groundwater monitoring event, measurable LNAPL (0.01 feet) was detected in well MW-01. After removing the LNAPL present in the well using a bailer, a grab



groundwater sample was collected from the well using a new, disposable bailer. It is estimated that 0.1 gallons of LNAPL and 0.6 gallons of groundwater were bailed from well MW-01 prior to sampling. The groundwater sample was collected despite the presence of LNAPL, as this was the first detection of LNAPL at the Site and this allowed a comparison of TPH concentrations with historical (pre-LNAPL) levels. Well MW-01 was not sampled during the December 2023 groundwater monitoring event due to the presence of measurable LNAPL (0.01 feet). Wells with measurable LNAPL will generally not be sampled during future groundwater monitoring events.

Groundwater samples were collected for laboratory analysis of total petroleum hydrocarbons (TPH) by EPA Method 8015M. All samples were handled with new nitrile gloves and labeled with the sample identification, collection date and time, sample analysis, preservatives, and initials of the samplers. The samples were then placed on ice in a laboratory-supplied cooler which remained in the custody of the sampling personnel until shipped under chain of custody to ALS Environmental of Houston, Texas. All non-dedicated equipment was decontaminated prior to being used at the Site and after use at each well.

GROUNDWATER MONITORING RESULTS

Gauging Data

Site-wide, synoptic fluid level gauging was performed during the quarterly groundwater monitoring events on February 22, 2023, June 20, 2023, September 14, 2023, and December 13, 2023. An additional synoptic gauging event was conducted on October 17, 2023, due to an anomalously low groundwater measurement at well MW-05 and the detection of LNAPL in well MW-01 during the September 2023 gauging event. The locations of the monitoring wells are depicted on Figure 2.

LNAPL was detected in well MW-01 during the third quarter (September 2023) monitoring event, additional October 2023 gauging event, and fourth quarter (December 2023) monitoring event; September 2023 is the first time LNAPL has been detected at the Site since groundwater monitoring commenced in November 2020. The apparent LNAPL thickness in MW-01 ranged from 0.01 feet (October and December 2023) to 0.02 feet (September 2023). During the September 2023 event, approximately 0.1 gallons of LNAPL were recovered from well MW-01 using a hand bailer. The LNAPL was observed to be dark with a sticky consistency and generally consistent with crude oil. The presence of measurable LNAPL in well MW-01 coincides with decreasing groundwater levels in MW-01; the December 2023 groundwater level at MW-01 is the lowest since monitoring commenced in November 2020.

As an interim LNAPL abatement measure, a sorbent sock was installed in well MW-01 after the additional gauging event on October 17, 2023. The sock was removed one day prior to the fourth quarter (December 2023) groundwater monitoring event and replaced with a new sorbent sock at



the end of the event. The absorbent sock removed in December 2023 recovered approximately 0.1 gallons of LNAPL.

Fluid level measurement data is presented in Table 1. A specific gravity of 0.85, within the published range for crude oil, was used to correct the groundwater elevation in well MW-01. The actual specific gravity of the crude oil present in well MW-01 is unknown. Due to anomalous measurements, the September 2023 gauging data was not used to prepare a potentiometric surface map. Instead, the October 2023 gauging data was used to prepare a potentiometric surface map. The February, June, October, and December 2023 groundwater potentiometric surface maps are depicted on Figures 3, 4, 5, and 6, respectively.

As shown on Figures 3 through 6, groundwater flow was to the south-southeast at a hydraulic gradient of 0.003 feet per foot in February, June, and October 2023 and 0.002 feet per foot in December 2023. This is generally consistent with previous monitoring events conducted at the Site. Average Site-wide groundwater elevations decreased by 0.01 feet from December 2022 to February 2023; decreased by 0.05 feet from February to June 2023; decreased by 0.23 feet from June to September 2023; increased by 0.85 feet from September to October 2023; and decreased by 0.87 feet from October to December 2023.

Overall, groundwater elevations have steadily decreased at all Site wells from November 2020 to December 2023, with the exception of a brief spike in groundwater elevations in October 2023 at wells MW-02, MW-03, MW-04, and MW-05. The October 2023 spike in groundwater elevations at wells MW-02, MW-03, MW-04, and MW-05 is likely associated with recharge from seasonal rainfall; according to the National Oceanic and Atmospheric Administration (NOAA), approximately 3.5 inches of rain fell in the area between September 14, 2023 and October 17, 2023, per a nearby weather station in Monument, New Mexico.

Groundwater Analytical Results

Groundwater samples were collected from each monitoring well during each quarterly monitoring event and analyzed for TPH, with the exception of well MW-01, which was not sampled in December 2023 due to the presence of measurable LNAPL. NMOCD does not have a groundwater action level for TPH; TPH concentrations are being monitored for any changes during soil remediation activities, which commenced in August 2022. Data from previous monitoring events (November 2020, May 2021, and October 2021) will serve as a baseline for the evaluation of TPH concentrations in groundwater.

In February 2023, TPH diesel range organics (DRO) was detected above reporting limits (RLs) in wells MW-01 (original sample only), MW-02, and MW-03 at a maximum concentration of 0.11 milligrams per liter (mg/L) (MW-01). TPH motor oil range organics (MRO) was detected above RLs in wells MW-01 (original sample only) and MW-03 at a maximum concentration of 0.31 mg/L (MW-03). This is the first detection of TPH MRO above RLs at MW-03 since monitoring at the Site



commenced in November 2020. TPH gasoline range organics (GRO) was not detected above RLs in any well during February 2023.

In June 2023, TPH DRO was detected above RLs in wells MW-01, MW-02, MW-04, and MW-05 (original and duplicate samples) at a maximum concentration of 0.16 mg/L (MW-01). TPH MRO was detected above RLs in wells MW-01 and MW-03 at a maximum concentration of 0.23 mg/L (MW-01). TPH GRO was not detected above RLs in any well during June 2023.

In September 2023, TPH DRO was detected above RLs in wells MW-01, MW-02 (original and duplicate samples), MW-04, and MW-05 at a maximum concentration of 43 mg/L (MW-01). TPH MRO was detected above RLs in wells MW-01 and MW-04 at a maximum concentration of 40 mg/L (MW-01). This is the first detection of TPH MRO above RLs at MW-04 since monitoring at the Site commenced in November 2020. TPH GRO was detected above RLs in all wells at a maximum concentration of 0.576 mg/L in (MW-01). This is the first detection of TPH GRO was detected above RLs in all wells at a maximum concentration of 0.576 mg/L in (MW-01). This is the first detection of TPH GRO above RLs at MW-02, MW-03, MW-04, and MW-05 since monitoring at the Site commenced in November 2020. The September 2023 TPH DRO, MRO, and GRO concentrations at well MW-01 are the maximum concentrations reported at the Site since monitoring commenced in November 2020. The September 2023 TPH maximum concentrations in well MW-01 are attributed to the presence of measurable LNAPL in the well; the LNAPL was bailed from the well immediately before collection of a grab groundwater sample.

In December 2023, well MW-01 was not sampled due to the presence of measurable LNAPL. TPH DRO was detected above RLs in wells MW-02 and MW-04 (original and duplicate samples) at a maximum concentration of 0.42 mg/L (MW-02). TPH MRO was detected above RLs in wells MW-02 and MW-04 (original and duplicate samples) at a maximum concentration of 0.93 mg/L (MW-02). TPH GRO was not detected above RLs in any well during December 2023.

From October 2021 (the last event conducted before soil remediation activities were commenced on August 9, 2022) to December 2023, TPH DRO concentrations showed the following trends:

- MW-01: stable from October 2021 to June 2023 and increased from June to September 2023 (LNAPL present in September 2023); not sampled in December 2023.
- MW-02: stable with minor fluctuations from October 2021 to June 2023 and increased from June to December 2023.
- MW-03 and MW-05: stable with minor fluctuations from October 2021 to December 2023.
- MW-04: stable with minor fluctuations from October 2021 to February 2023 and increased from February to December 2023.

From October 2021 (the last event conducted before soil remediation activities were commenced on August 9, 2022) to December 2023, TPH MRO concentrations showed the following trends:



- MW-01: stable from October 2021 to June 2023 and increased from June to September 2023 (LNAPL present in September 2023); not sampled in December 2023.
- MW-02: stable (non-detect) from October 2021 to September 2023 with exception of a detected concentration in December 2022 and increased from September to December 2023.
- MW-03: stable (non-detect) from October 2021 to December 2022, increased from December 2022 to February 2023, and decreased from February to December 2023 (non-detect in September and December 2023).
- MW-04: stable (non-detect) from October 2021 to June 2023 and increased from June to December 2023.
- MW-05: stable (non-detect) from October 2021 to December 2023.

From October 2021 (the last event conducted before soil remediation activities were commenced on August 9, 2022) to December 2023, TPH GRO concentrations showed the following trends:

- MW-01: stable (non-detect) from October 2021 to June 2023 and increased from June to September 2023 (LNAPL present in September 2023); not sampled in December 2023.
- MW-02, MW-03, MW-04, and MW-05: stable (non-detect) from October 2021 to June 2023, increased from June to September 2023, and decreased to non-detect from September to December 2023.

The increased TPH concentrations in well MW-01 in September 2023 are attributed to the presence of measurable LNAPL in the well; the LNAPL was bailed from the well immediately prior to collection of a grab groundwater sample. TPH GRO concentrations in wells MW-02, MW-03, MW-04, and MW-05 briefly spiked in September 2023 before returning to non-detect in December 2023, while TPH DRO and/or MRO concentrations in wells MW-02, MW-03, MW-04, and MW-05 increased with fluctuations during 2023. The increased TPH concentrations in wells MW-02, MW-03, MW-04, and MW-05 during 2023 may be associated with seasonal groundwater level fluctuations, as water levels have overall decreased since groundwater monitoring commenced at the Site in November 2020, while significant rainfall in September and October 2023 likely caused a brief water level spike in October 2023. The increased TPH concentrations during 2023 are not attributed to implementation of soil remediation activities in August 2022, as the bioventing pilot test was so brief (7 days).

It should be noted that well MW-05, which had detections of TPH DRO and GRO in September 2023, is located approximately 95 feet north-northwest (i.e., upgradient) of the release location. The presence of TPH in groundwater upgradient of the Site indicates the potential contribution from an upgradient source or a regional issue.



Groundwater sample analytical data from 2020 to 2023 are presented in Table 2. A summary of the 2023 analytical results is presented on Figure 7. Copies of the laboratory analytical reports are included in Attachment C. Groundwater elevation and TPH concentration plots for wells MW-01 through MW-05 and the groundwater elevation and LNAPL thickness plot for well MW-01 are presented in Attachment D.

Quality Control/Quality Assurance Results

Data were reviewed to ensure that reported analytical results meet standard data quality objectives and laboratory-specified control limits. Data were reviewed with respect to analytical holding times, sample preservation, blanks (method and trip), laboratory control sample recoveries, matrix spike/matrix spike duplicate recoveries, and surrogate recoveries. It was determined that quality control data associated with the analytical results indicate reported concentrations of target analytes are defensible and measurement data reliability is generally within the expected limits of sampling and analytical error. Copies of laboratory analytical reports and Quality Control Forms are provided in Attachment C.

FULL-SCALE BIOVENTING SYSTEM INSTALLATION ACTIVITIES

Bioventing Well Installation

Four bioventing injection wells were installed from May 3 to 10, 2023, in general accordance with the October 2022 Bioventing Recommendation Report, which was approved by NMOCD on November 28, 2022. Three nested (BV-1 through BV-3) and one non-nested (BV-4) bioventing injection wells were installed at the Site. The locations of the bioventing wells are presented on Figure 2. Nested injection wells BV-1, BV-2, and BV-3 were installed near the release area. As shown on the boring and well construction logs included as Attachment E, each nested well was screened to allow for injection at shallow (i.e., BV-1S, BV-2S, and BV-3S), middle (i.e., BV-1M, BV-2M, and BV-3M), and deep (i.e., BV-1D, BV-2D, and BV-3D) intervals to target the entire vadose zone soil column from 4.5 feet bgs to the water table, including the capillary fringe. Non-nested injection well BV-4 was installed east of the release area and screened across the deep interval to target the capillary fringe. The injection wells were constructed using 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and 0.020-inch slotted screen; the final screen intervals were within 2 feet of the screen intervals proposed in the October 2022 Bioventing Recommendation Report, with deviations of 2 to 3 feet based on the observed lithology (i.e., the top of the screen interval for BV-2D) and settling of the PVC casing and screen after initial installation (i.e., the top and bottom of the screen interval for BV-3D). A 10-20 grade silica sand was installed at least 0.5 feet above and below each screen interval with the exception of at well BV-2, where the top of the shallow screen interval (BV-2S) is approximately even with the bottom of the bentonite seal. At least 2 feet of hydrated bentonite were installed between each screen interval and above the shallowest screen interval. All wells were completed at grade with a protective traffic-rated well vault.



The locations of the bioventing injection wells are shown on Figure 2. The boring and well construction logs for BV-1, BV-2, BV-3, and BV-4 are included as Attachment E.

Bioventing System

As described in TRC's emails to NMOCD dated August 18, 2023, October 4, 2023, and November 16, 2023, HEP experienced difficulties arranging for the installation of an electrical power drop at the Site, which was required to facilitate operation of the planned electrical-powered bioventing system. Xcel Energy, the local electricity provider, was unable to procure an easement for the electrical power drop with adjacent property owners, so HEP evaluated alternative power sources for the planned bioventing system. In accordance with TRC's February 14, 2024, email to NMOCD, HEP switched to a propane-powered bioventing system. The overall operation and capability of the bioventing system will remain consistent with that proposed in the NMOCD-approved October 2022 Bioventing Recommendation Report; only the power source for the compressor has changed. Copies of e-mail correspondence with NMOCD are included in Attachment A.

Several system components have been installed at the Site to date, including the bioventing wells, propane tank pads and tanks, system shed, and additional system fencing. Upon delivery of the air compressor (estimated for early May 2024) and installation of the remaining system components, the bioventing system is anticipated to be operational during May 2024.

INVESTIGATION DERIVED WASTE MANAGEMENT

The investigation-derived waste (IDW) generated during the 2023 monitoring activities included purge and decontamination water, absorbent socks, and recovered LNAPL. Additionally, soil cuttings and decontamination water were generated during the May 2023 bioventing well installation activities. The soil and liquid IDW was stored in properly labeled 55-gallon drums at the Site. Field supplies (paper towels, gloves, tubing, etc.) used during field activities were stored in labeled 5-gallon buckets at the Site. The IDW generated during 2023 monitoring activities was characterized, profiled, and transported to an off-Site disposal facility under manifest in March 2024. Waste manifests are included as Attachment F.

CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are based on groundwater monitoring results from the 2023 quarterly groundwater monitoring activities:

- Groundwater flow was to the south-southeast during the 2023 quarterly monitoring events. This is generally consistent with previous monitoring events conducted at the Site.
- Measurable LNAPL was detected in well MW-01 during the third and fourth quarters of 2023. The third quarter 2023 detection was the first detection of LNAPL since



groundwater monitoring commenced at the Site in November 2020. The presence of measurable LNAPL in well MW-01 coincides with decreasing groundwater levels and is not attributed to implementation of soil remediation activities in August 2022.

- As an interim LNAPL abatement measure, a sorbent sock was installed in well MW-01 in October 2023 and replaced in December 2023.
- TPH DRO, MRO, and/or GRO were detected above RLs in all monitoring wells during 2023.
- The increased TPH concentrations in well MW-01 in September 2023 are attributed to
 the presence of measurable LNAPL in the well; the LNAPL was bailed from the well
 immediately prior to collection of a grab groundwater sample. TPH GRO concentrations
 in wells MW-02, MW-03, MW-04, and MW-05 briefly spiked in September 2023 before
 returning to non-detect in December 2023, while TPH DRO and/or MRO concentrations
 in wells MW-02, MW-03, MW-04, and MW-05 increased with fluctuations during 2023.
 The increased TPH concentrations in wells MW-02, MW-03, MW-04, and MW-05 during
 2023 may be associated with seasonal groundwater level fluctuations, as water levels
 have overall decreased since groundwater monitoring commenced at the Site in
 November 2020, while significant rainfall in September and October 2023 likely caused
 a brief water level spike in October 2023. The increased TPH concentrations during
 2023 are not attributed to implementation of soil remediation activities in August 2022,
 as the bioventing pilot test was so brief (7 days).
- The presence of TPH in groundwater upgradient of the Site in well MW-05 indicates the potential contribution from an upgradient source or a regional issue.
- Overall, the 2023 groundwater monitoring data indicates that groundwater beneath the Site may have been affected by the 2018 HEP release based on the presence of LNAPL, but has not been affected by soil remediation activities conducted to date.

The following Site activities will be conducted in 2024:

- Quarterly groundwater monitoring will continue at the Site during 2024. The five monitoring wells and four bioventing injection wells will be gauged for depth to LNAPL, if present, and water during each quarterly groundwater monitoring event. The first quarter 2024 event was completed on March 7 and 8, 2024.
- If measurable LNAPL remains in well MW-01, the sorbent sock in the well will be removed and replaced during each quarterly groundwater monitoring event, as needed.
- Installation and activation of a full-scale bioventing system in accordance with the October 2022 Bioventing Recommendation Report is anticipated in 2024.



• An Abatement Plan will be developed and submitted for NMOCD approval in 2024 if measurable LNAPL continues to be present at the Site through the third quarter 2024 (i.e., one year from initial detection in well MW-01).

The next Annual Groundwater Monitoring Report summarizing 2024 quarterly groundwater monitoring activities will be submitted to the NMOCD within 120 days from the end of 2024. The report will document installation of the bioventing system and will include system operation and maintenance data, as appropriate.

CLOSING

If you should have any questions or comments regarding this project, please contact Arsin Sahba of HF Sinclair at (972) 689-8540 or Jared Stoffel of TRC at (432) 238-3003.

Sincerely,

ford & Diefel

Jared Stoffel, P.G. Project Manager

Bryan Gilbert, P.G. Austin Office ECW Practice Leader

Attachments: Table 1 – Summary of Groundwater Elevations Table 2 – Summary of Groundwater Sample Analytical Results

- Figure 1 Site Location Map
- Figure 2 Well Location Map
- Figure 3 Groundwater Potentiometric Surface Map February 2023
- Figure 4 Groundwater Potentiometric Surface Map June 2023
- Figure 5 Groundwater Potentiometric Surface Map October 2023
- Figure 6 Groundwater Potentiometric Surface Map December 2023
- Figure 7 Summary of 2023 Groundwater Sample Analytical Results

Attachment A – Copies of E-Mail Correspondence

Attachment B – Groundwater Sampling Forms

Attachment C – Laboratory Analytical Reports

Attachment D – Groundwater Elevation and TPH Plots

Attachment E – Bioventing Boring and Well Completion Logs

Attachment F – Waste Manifests



cc: Mike Bratcher, New Mexico Energy, Minerals, and Natural Resources Department, Artesia, New Mexico

Nelson Velez, New Mexico Energy, Minerals, and Natural Resources Department, Aztec, New Mexico

L&K Ranch LLC, Hobbs, New Mexico Melanie Nolan, HEP, Artesia, New Mexico Jason Leik, P.E., HEP, Dallas, Texas Arsin Sahba, P.G., HF Sinclair, Dallas, Texas



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TABLES

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TABLE 1 SUMMARY OF GROUNDWATER ELEVATIONS WTX TO EMSU BATTERY TO BYRD PUMP CRUDE OIL RELEASE, LEA COUNTY, NM

Monitor Well ID	Well Total Depth (feet btoc)	Ground Surface at Well Elevation (feet amsl)	Well Top of Casing Elevation (feet amsl)	Screened Interval (feet btoc)	Gauging Date	Depth to LNAPL (feet btoc)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Corrected Depth to Water (feet btoc)	Corrected Groundwater Elevation (feet amsl)	Well Saturated Thickness (feet)
MW-01	49.25	3,561.71	3,561.53	30.0 -	11/07/20	ND	36.29	0.00	36.29	3,525.24	12.96
				50.0	05/28/21	ND	36.47	0.00	36.47	3,525.06	12.78
					10/12/21	ND	36.67	0.00	36.67	3,524.86	12.58
					08/16/22	ND	37.08	0.00	37.08	3,524.45	12.17
					12/20/22	ND	37.25	0.00	37.25	3,524.28	12.00
					02/22/23	ND	37.26	0.00	37.26	3,524.27	11.99
					06/20/23	ND	37.32	0.00	37.32	3,524.21	11.93
					09/14/23	37.46	37.48	0.02	37.46	3,524.07	11.79
					10/17/23	37.51	37.52	0.01	37.51	3,524.02	11.74
					12/13/23	37.56	37.57	0.01	37.56	3,523.97	11.69
MW-02	49.49	3,563.09	3,562.94	30.0 -	11/07/20	ND	37.59	0.00	37.59	3,525.35	11.90
				50.0	05/25/21	ND	37.81	0.00	37.81	3,525.13	11.68
					10/06/21	ND	37.95	0.00	37.95	3,524.99	11.54
					08/16/22	ND	38.35	0.00	38.35	3,524.59	11.14
					12/20/22	ND	38.53	0.00	38.53	3,524.41	10.96
					02/22/23	ND	38.54	0.00	38.54	3,524.40	10.95
					06/20/23	ND	38.58	0.00	38.58	3,524.36	10.91
					09/14/23	ND	38.75	0.00	38.75	3,524.19	10.74
					10/17/23	ND	37.79	0.00	37.79	3,525.15	11.70
MW-03	49.93	3,562.91	3,562.81	30.0 -	12/13/23	ND ND	38.83 37.58	0.00	38.83	3,524.11	10.66
10100-03	49.93	3,502.91	3,302.01	50.0 -	11/07/20 05/25/21	ND	37.56	0.00	37.58 37.79	3,525.23 3,525.02	12.35 12.14
				50.0	10/12/21	ND	37.99	0.00	37.99	3,525.02	12.14
					08/16/22	ND	38.31	0.00	38.31	3,524.82	11.62
					12/20/22	ND	38.49	0.00	38.49	3,524.32	11.44
					02/22/23	ND	38.51	0.00	38.51	3,524.30	11.42
					06/20/23	ND	38.56	0.00	38.56	3,524.25	11.37
					09/14/23	ND	38.71	0.00	38.71	3,524.10	11.22
					10/17/23	ND	37.73	0.00	37.73	3,525.08	12.20
					12/13/23	ND	38.81	0.00	38.81	3,524.00	11.12
MW-04	50.31	3,563.26	3,563.12	30.0 -	11/07/20	ND	37.92	0.00	37.92	3,525.20	12.39
		,		50.0	05/25/21	ND	38.12	0.00	38.12	3,525.00	12.19
					10/06/21	ND	38.28	0.00	38.28	3,524.84	12.03
					08/16/22	ND	38.64	0.00	38.64	3,524.48	11.67
					12/20/22	ND	38.82	0.00	38.82	3,524.30	11.49
					02/22/23	ND	38.85	0.00	38.85	3,524.27	11.46
					06/20/23	ND	38.91	0.00	38.91	3,524.21	11.40
					09/14/23	ND	39.05	0.00	39.05	3,524.07	11.26
					10/17/23	ND	38.08	0.00	38.08	3,525.04	12.23
					12/13/23	ND	39.14	0.00	39.14	3,523.98	11.17
MW-05	49.72	3,563.62	3,563.40	30.0 -	05/28/21	ND	38.15	0.00	38.15	3,525.25	11.57
				50.0	10/12/21	ND	38.34	0.00	38.34	3,525.06	11.38
					08/16/22	ND	38.68	0.00	38.68	3,524.72	11.04
					12/20/22	ND	38.89	0.00	38.89	3,524.51	10.83
					02/22/23	ND	38.89	0.00	38.89	3,524.51	10.83
					06/20/23	ND	38.92	0.00	38.92	3,524.48	10.80
					09/14/23	ND	39.49	0.00	39.49	3,523.91	10.23
					10/17/23	ND	38.11	0.00	38.11	3,525.29	11.61
Notos:					12/13/23	ND	39.21	0.00	39.21	3,524.19	10.51

Notes:

amsl = above mean sea level.

btoc = below top of casing.

LNAPL = light non-aqueous phase liquid.

ND = not detected.

Corrected water level elevations calculated using LNAPL specific gravity of 0.85.

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TABLE 2 SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS WTX TO EMSU BATTERY TO BYRD PUMP CRUDE OIL RELEASE, LEA COUNTY, NM

Benzen Folume Yilenes Yilenes Yilenes None None <th></th> <th></th> <th></th> <th></th> <th></th> <th>Constitue</th> <th>ent of Conce</th> <th></th> <th></th> <th></th> <th></th>						Constitue	ent of Conce				
Wein D Benzone Structure Total None None<	•	Sample Date			(mg/L)	[TPH (mg/L			
NW-01 11/7/2020 <0.0050			Benzene	-			GRO	DRO	MRO	_	Chloride (mg/L)
Si28/2021 <0.005	Groundwater	Action Levels	0.005	0.7	1.0	0.62	None	None	None	None	250
(Dup) 5/28/2021 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.010 8/16/2022 <0.0500	MW-01	11/7/2020	<0.0050	<0.0050	<0.0050	<0.0050	0.0980	0.084	<0.10 n	3000	1260
10/12/2021 <0.005 <0.005 <0.005 <0.005 <0.050 0.052 <0.10 1 (Dup) 8/16/2022 <0.0500		5/28/2021	<0.005	<0.005	<0.005	<0.005	<0.0500	0.24	<0.10 n		1270
8/16/2022 <	(Dup)	5/28/2021	<0.005	<0.005	<0.005	<0.005	<0.0500	0.17	<0.10 n		1250
(Dup) 8/16/2022		10/12/2021	<0.005	<0.005	<0.005	<0.005	<0.0500	0.052	<0.10 n		1280
12/20/2022 < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < <		8/16/2022					<0.0500	0.083	0.11 n		
2/23/2023 0.0500 0.11 0.22 n (Dup) 2/23/2023 0.0500 0.051 0.01 n 6/20/2023 0.576 43 40 n 12/13/2023 NS NS NS 12/13/2023 NS NS NS 11/7/2020 <0.0050	(Dup)	8/16/2022					<0.0500	0.085	0.11 n		
(Dup) 2/23/2023 <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <- <-		12/20/2022					<0.0500	0.095	0.22 n		
6/20/2023 0.0500 0.16 0.23 n 9/14/2023* NS NS NS NS 12/13/2023 NS NS NS NS MW-02 11/7/2020 -0.0050 <0.0050		2/23/2023					<0.0500	0.11	0.22 n		
9/14/2023* NS NS NS NS NS MW-02 11/1/2020 <0.0050	(Dup)	2/23/2023					<0.0500	<0.051	<0.10 n		
12/13/2023 NS NS NS MW-02 11/7/2020 <0.0050		6/20/2023					<0.0500	0.16	0.23 n		
MW-02 11/7/2020 <0.0050 <0.0050 <0.0050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.051 <0.010		9/14/2023*					0.576	43	40 n		
5/25/2021 <0.005		12/13/2023					NS	NS	NS		
10/6/2021 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.007 <0.090 12/20/2022 <0.0500	MW-02	11/7/2020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500	<0.050	<0.10 n	2970	1210
8/16/2022 (Dup) 12/20/2022		5/25/2021	<0.005	<0.005	<0.005	<0.005	<0.0500	0.12	<0.10 n		1250
12/20/2022 0.0500 0.090 0.23 n (Dup) 12/20/2022 0.0500 0.052 0.14 n 1 2/22/2023 0.0500 0.064 <0.10 n		10/6/2021	<0.005	<0.005	<0.005	<0.005	<0.0500	<0.050	<0.10 n		1220
(Dup) 12/20/2022 <-0.0500 <0.052 0.14 n 2/22/2023 <-0.0500		8/16/2022					<0.0500	0.067	<0.099 n		
2/22/2023 <td></td> <td>12/20/2022</td> <td></td> <td></td> <td></td> <td></td> <td><0.0500</td> <td>0.090</td> <td>0.23 n</td> <td></td> <td></td>		12/20/2022					<0.0500	0.090	0.23 n		
6/20/2023 0.0500 0.0655 <0.0 n (Dup) 9/14/2023 0.425 0.099 <0.1 n	(Dup)	12/20/2022					< 0.0500	<0.052	0.14 n		
9/14/2023 0.425 0.099 <0.10 n (Dup) 9/14/2023 0.206 0.090 <0.10 n		2/22/2023					< 0.0500	0.064	<0.10 n		
(Dup) 9/14/2023 0.206 0.090 <0.10 12/13/2023 <0.0500		6/20/2023					<0.0500	0.065	<0.10 n		
12/13/2023 <		9/14/2023					0.425	0.099	<0.10 n		
MW-03 11/7/2020 <0.0050 <0.0050 <0.0050 <0.0500 <0.0500 <0.010 n 1970 5/25/2021 <0.005	(Dup)	9/14/2023					0.206	0.090	<0.10 n		
5/25/2021 <0.005		12/13/2023					< 0.0500	0.42	0.93 n		
10/12/2021 <0.005	MW-03	11/7/2020	<0.0050	<0.0050	<0.0050	<0.0050	< 0.0500	<0.050	<0.10 n	1970	736
8/16/2022 <0.0500		5/25/2021	<0.005	<0.005	<0.005	<0.005	<0.0500	0.11	<0.10 n		849
12/20/2022 <0.0500		10/12/2021	<0.005	<0.005	<0.005	<0.005	< 0.0500	<0.050	<0.10 n		862
2/22/2023 <0.0500		8/16/2022					< 0.0500	<0.051	<0.10 n		
6/20/2023 <0.0500		12/20/2022					<0.0500	<0.050	<0.10 n		
9/14/2023 0.244 <0.051		2/22/2023					<0.0500	0.079	0.31 n		
12/13/2023 <0.0500		6/20/2023					<0.0500	<0.052	0.13 n		
12/13/2023 <0.0500		9/14/2023					0.244	<0.051	<0.10 n		
5/25/2021 <0.005											
5/25/2021 <0.005	MW-04		<0.0050	< 0.0050	< 0.0050	<0.0050				3020	1190
10/6/2021 <0.005		1									1310
(Dup) 10/6/2021 <0.005 <0.005 <0.005 <0.050 <0.0500 <0.050 <0.10 n 1 8/16/2022 <0.0500		1					<0.0500				1230
8/16/2022 <-	(Dup)										1280
12/20/2022 <-	/										
2/22/2023 <0.0500		4									
6/20/2023 <0.0500											
9/14/2023 0.421 0.12 0.19 n											
		12/13/2023					< 0.0500	0.17	0.54 n		
(Dup) 12/13/2023 < <0.0500 0.12 0.49 n	(Dup)										

TABLE 2 SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS WTX TO EMSU BATTERY TO BYRD PUMP CRUDE OIL RELEASE, LEA COUNTY, NM

			Constituent of Concern (COC)								
Monitoring	Sample Date	BTEX (mg/L)		TPH (mg/L)							
Well ID	Well ID .	Benzene	Ethyl- benzene	Toluene	Total Xylenes	GRO	DRO	MRO	TDS (mg/L)	Chloride (mg/L)	
Groundwater	Action Levels	0.005	0.7	1.0	0.62	None	None	None	None	250	
MW-05	5/28/2021	<0.005	<0.005	<0.005	<0.005	<0.0500	0.22	<0.10 n	3690	1170	
	10/12/2021	<0.005	<0.005	<0.005	<0.005	<0.0500	<0.050	<0.10 n		1230	
	8/16/2022					<0.0500	0.065	<0.10 n			
	12/20/2022					<0.0500	0.053	<0.10 n			
	2/22/2023			-		<0.0500	<0.052	<0.10 n			
	6/20/2023			-		<0.0500	0.066	<0.10 n			
(Dup)	6/20/2023			-		<0.0500	0.065	<0.10 n			
	9/14/2023					0.399	0.11	<0.10 n			
	12/13/2023					<0.0500	<0.053	<0.11 n			

Notes:

COC = constituent of concern.

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes by EPA Method 8260.

TPH = Total Petroleum Hydrocarbons by EPA Method 8015.

mg/L = milligrams per liter.

Groundwater Action Levels = Human health and drinking water standards for groundwater obtained from various sources.

BTEX-Human Health Standards for Groundwater obtained from NMAC 20.6.2.3103 (A).

NMOCD does not have a groundwater action level for TPH.

Chloride-Other Standards for Domestic Water Supply obtained from NMAC 20.6.2.3103 (B).

NMAC = New Mexico Administrative Code

NMOCD = New Mexico Oil Conservation Division

GRO = Gasoline Range Organics.

DRO = Diesel Range Organics.

MRO = Motor Oil Range Organics.

TDS = Total Dissolved Solids

Chloride by EPA Method 300.0.

< = COC not detected above reporting limit

-- = Parameter not analyzed.

n = Not offered for accreditation.

Dup = Duplicate sample data.

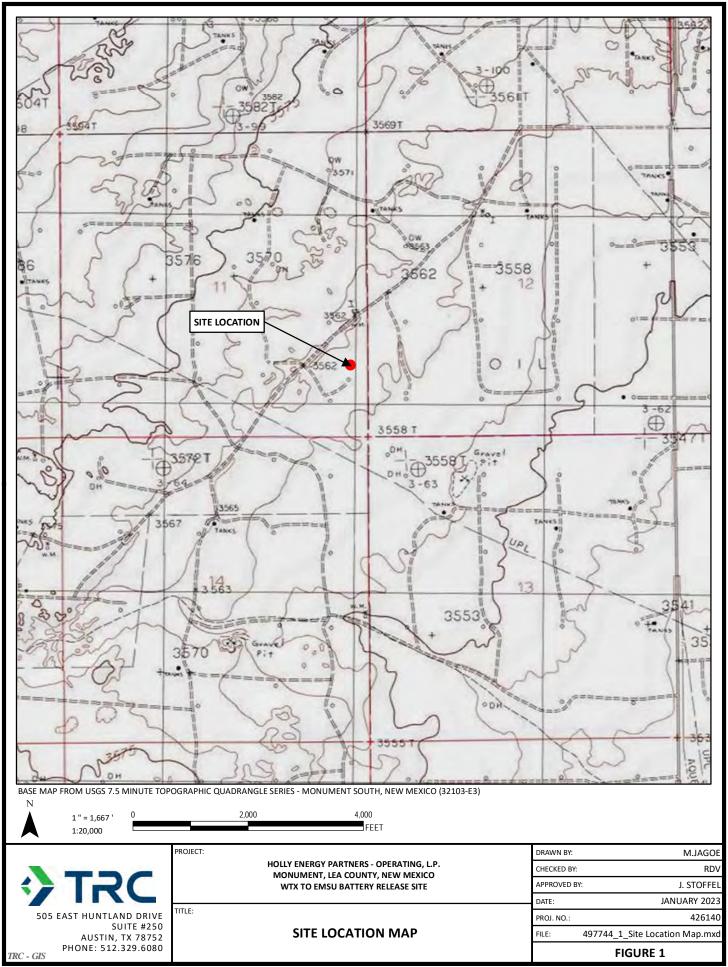
Detected concentrations reported in **bold**.

Gold shading represents concentration above Other Standards for Domestic Water Supply.

NS = Not sampled due to presence of measurable light non-aqeous phase liquid.

* = Measurable light non-aqueous phase liquid present in well MW-01 (removed with bailer immediately before sampling).

FIGURES



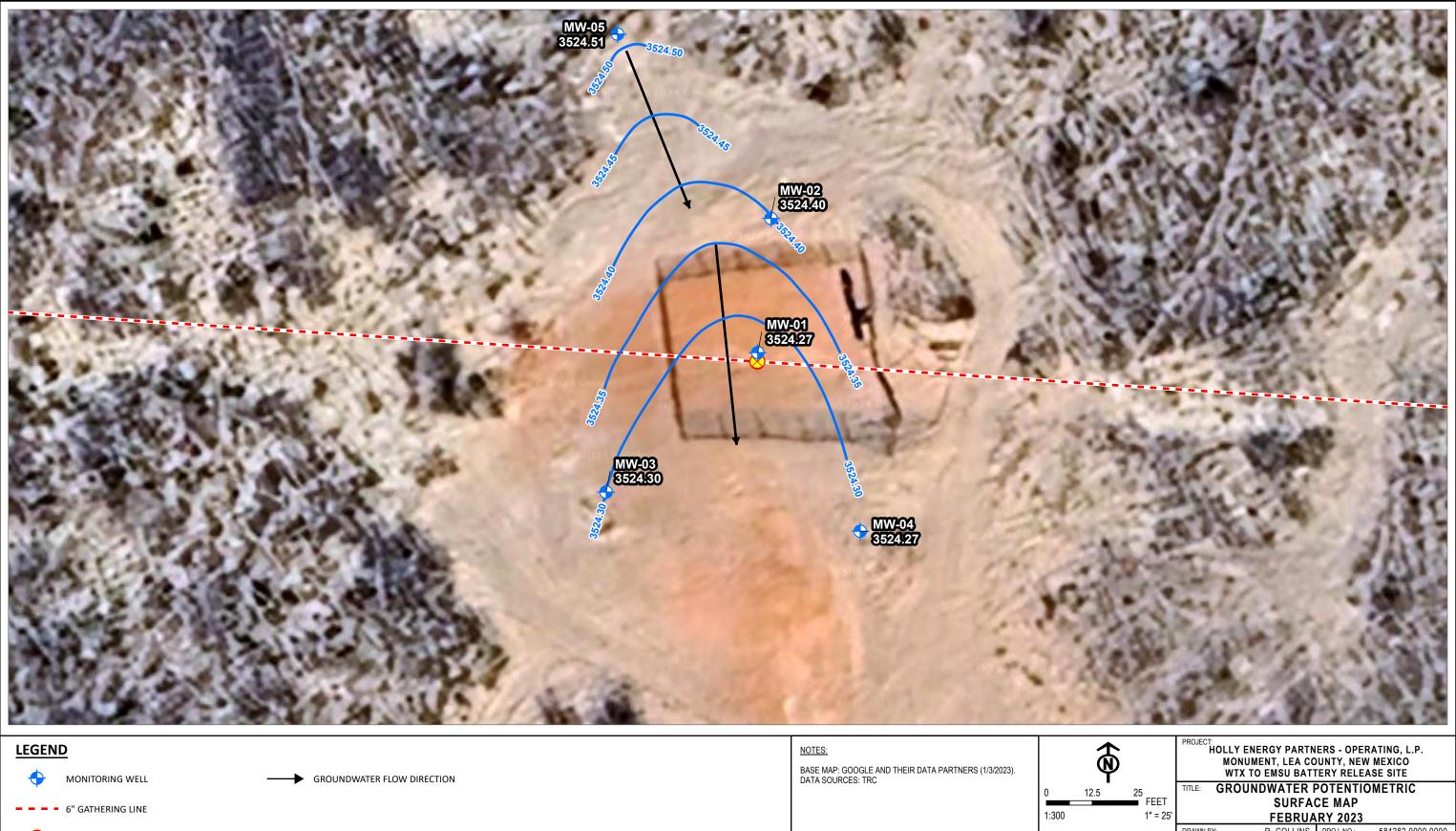
S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\466951\mxdl497744_1_Site Location Map.mxd -- Saved By: BLEE on 3/28/2023, 19:34:43 PM



:\1-PI	LEGEN	$\underline{\mathbf{D}}$	NOTES:	
File Path: 1	•	MONITORING WELL	BIOVENTING INJECTION WELLS BV-1, BV-2, BV-3, AND BV-4 INSTALLED IN MAY 2023.	
51:36 AM;		6" GATHERING LINE	BASE MAP: GOOGLE AND THEIR DATA PARTNERS (1/3/2023). DATA SOURCES: TRC	1:300
9/2024, 11:	\otimes	RELEASE LOCATION		
CY on 4/2:		BIOVENTING INJECTION WELL		
By: BTRA				
Saved				

Released to Imaging: 6/11/2024 2:07:46 PM

8		MON	ENERGY PARTN UMENT, LEA CO (TO EMSU BATT	UNTY, NEW	MEXICO
12.5	25 FEET 1" = 25'	TITLE:	WELL LOC	ATION MA	۱P
		DRAWN BY:	R. COLLINS	PROJ. NO.:	584282.0000.0000
		CHECKED BY:	D. CLARK		
		APPROVED BY:	J. STOFFEL	FI	GURE 2
		DATE:	APRIL 2024		
				PI	T HUNTLAND DRIVE SUITE #250 AUSTIN, TX 78752 HONE: 512.329.6080
		FILE:		584	282_WTX_GW_2023.APRX



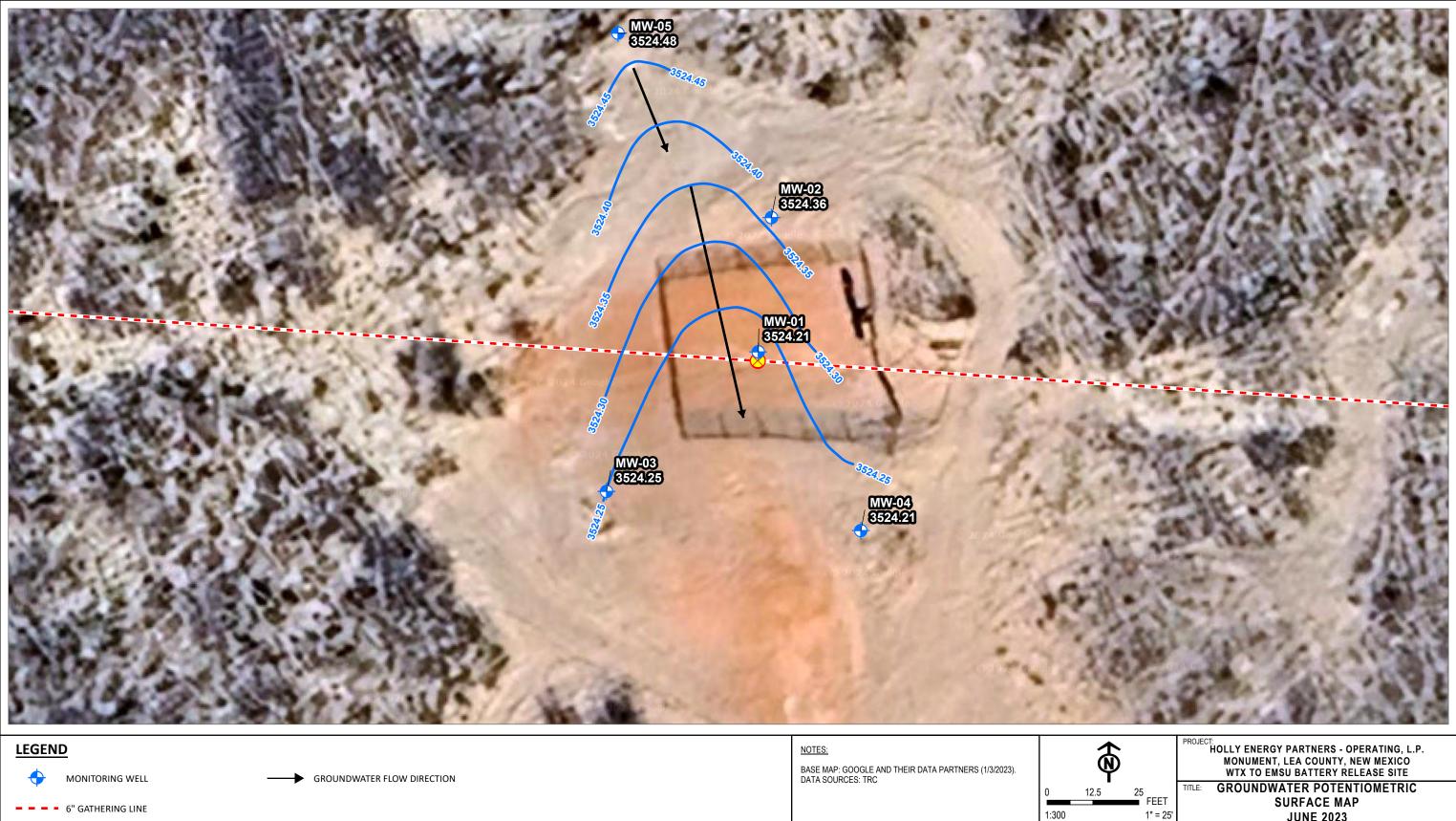
ł	-	-	-	-	6" GATHERING	L

POTENTIOMETRIC CONTOUR (DASHED WHERE INFERRED)

625330 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

BASE MAP: GOOGLE AND THEIR DATA PARTNERS (1/3/2023)
DATA SOURCES: TRC

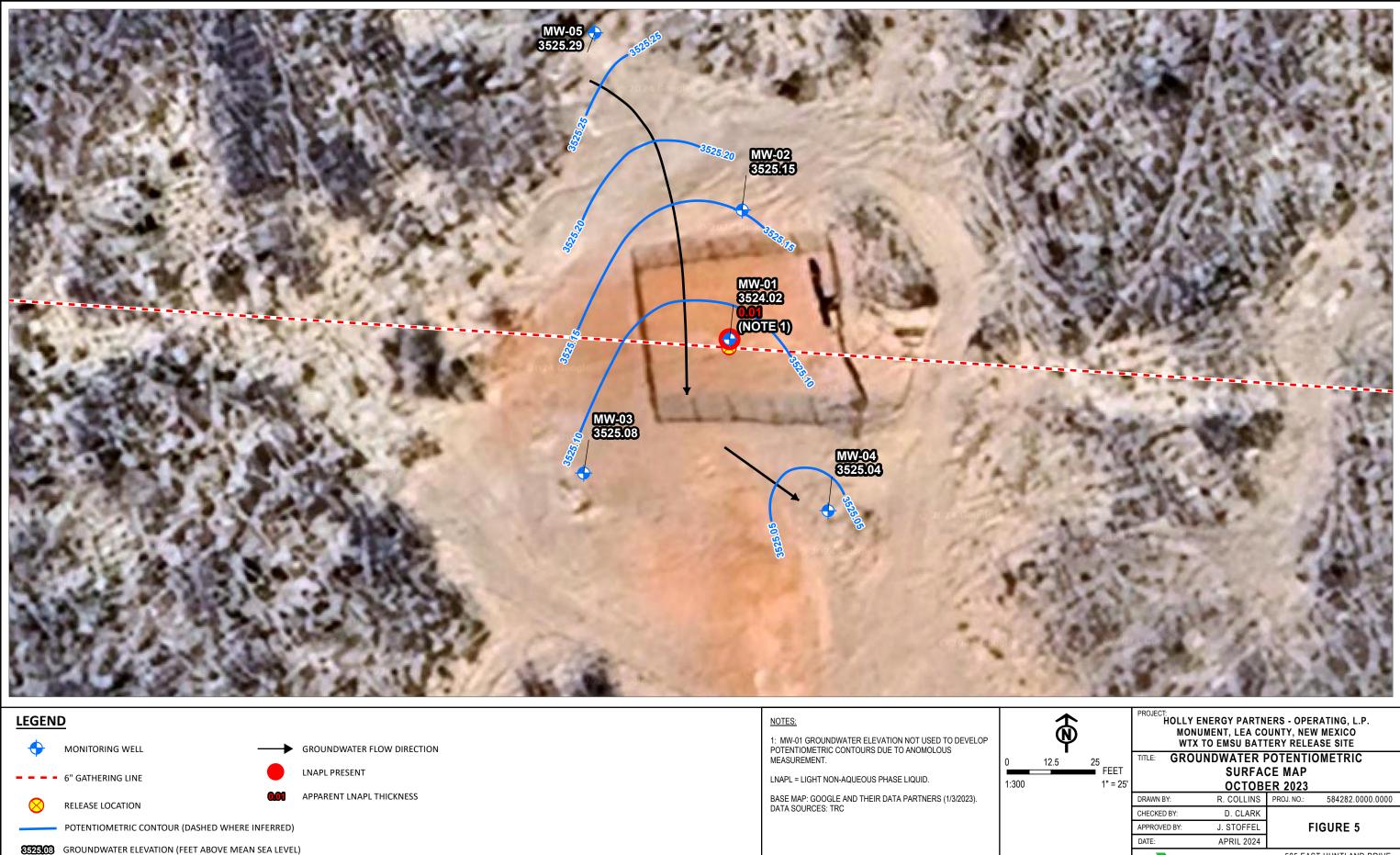
25'		FEBRUA	RY 2023	
	DRAWN BY:	R. COLLINS	PROJ. NO.:	584282.0000.0000
	CHECKED BY:	D. CLARK		
	APPROVED BY:	J. STOFFEL	F	IGURE 3
	DATE:	MARCH 2024		
	►	IRC		T HUNTLAND DRIVE SUITE #250 AUSTIN, TX 78752 HONE: 512.329.6080
			58/	1282 WITY CW 2023 ADDY



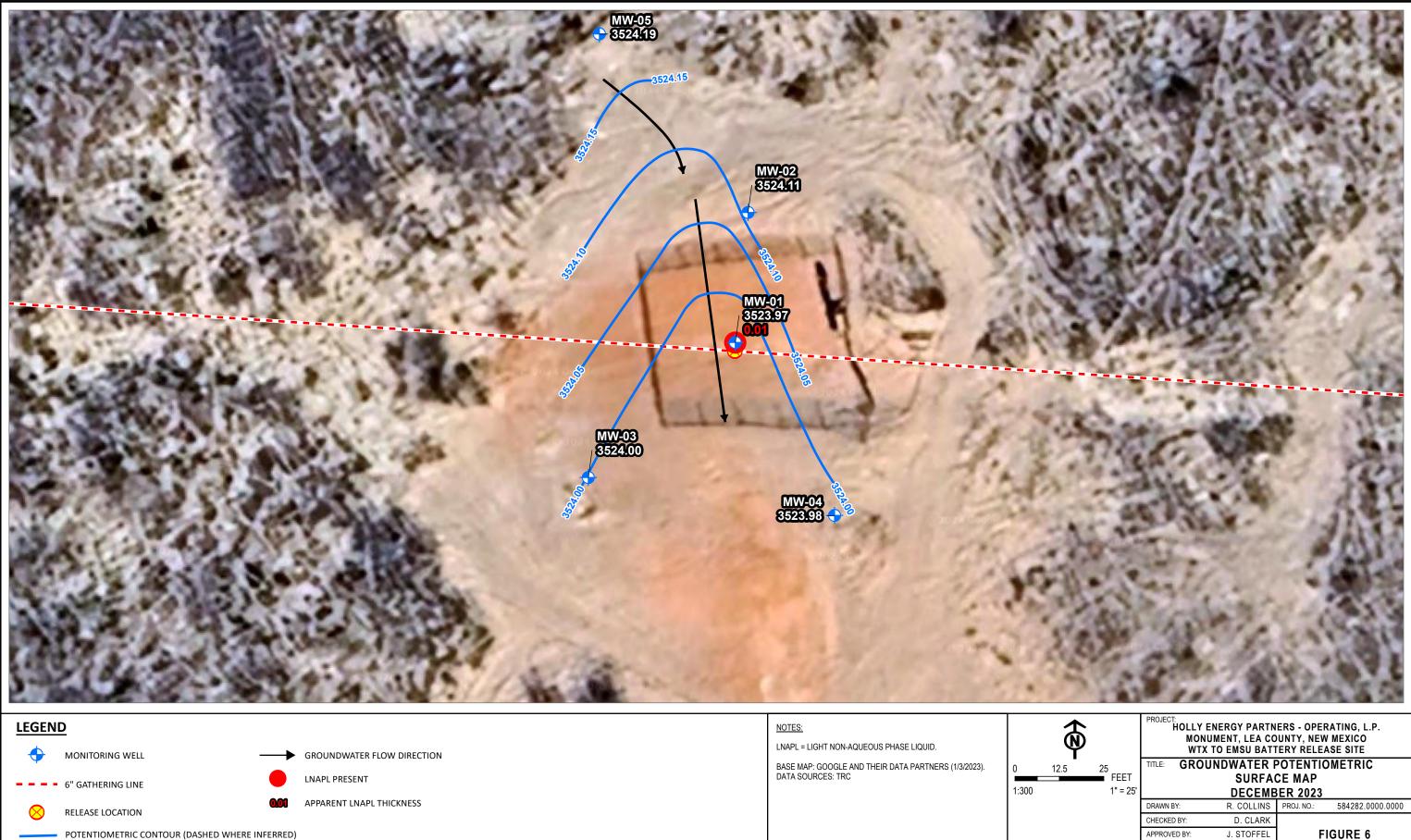
- - 6" GATHERING LINE
- \otimes RELEASE LOCATION
- POTENTIOMETRIC CONTOUR (DASHED WHERE INFERRED)
- **3523.83** GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

Released to Imaging: 6/11/2024 2:07:46 PM

= 25'	JUNE 2023							
	DRAWN BY:	R. COLLINS	PROJ. NO.: 58	4282.0000.0000				
	CHECKED BY:	D. CLARK						
	APPROVED BY:	J. STOFFEL	FIGU	RE 4				
	DATE:	APRIL 2024						
	\mathbf{i}	TRC	AUS	NTLAND DRIVE SUITE #250 STIN, TX 78752 STI2.329.6080				
	FILE:		584282 W	TX GW 2023.APRX				



Released to Imaging: 6/11/2024 2:07:46 PM



3524.00 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

Released to Imaging: 6/11/2024 2:07:46 PM

' = 25'		DECEME	ER 2023	
	DRAWN BY:	R. COLLINS	PROJ. NO.:	584282.0000.0000
	CHECKED BY:	D. CLARK		
	APPROVED BY:	J. STOFFEL	F	IGURE 6
	DATE:	MARCH 2024		
	>	IRC		T HUNTLAND DRIVE SUITE #250 AUSTIN, TX 78752 HONE: 512.329.6080
	FILE.		58	4282 WTX GW 2023 APRX

	2.25	ST 37	5 10	1.20	10 300
Sector Sector	Monitoring	Comula Data	TPH (mg/L)		
	Well ID	Sample Date	GRO	DRO	MRO
1. A 1. A 1.	MW-05	2/22/2023	<0.0500	<0.052	<0.10 n
10 C 10 C		6/20/2023	<0.0500	0.066	<0.10 n
	(Dup)	6/20/2023	<0.0500	0.065	<0.10 n
A Carl		9/14/2023	0.399	0.11	<0.10 n
and an in		12/13/2023	<0.0500	<0.053	<0.11 n

1022	Sec. 34		S	3.6	200
1000	Monitoring	Sample Date		TPH (mg/L)	
10000	Well ID	Sample Date	GRO	DRO	MRO
CONTRACTOR	MW-02	2/22/2023	<0.0500	0.064	<0.10 n
and the second		6/20/2023	<0.0500	0.065	<0.10 n
121		9/14/2023	0.425	0.099	<0.10 n
	(Dup)	9/14/2023	0.206	0.090	<0.10 n
702		12/13/2023	<0.0500	0.42	0.93 n
		Contraction of the local sector	and the second second	10.00	1 1 1 1
and a constraint of		100 B 100 B 100	Contraction of the	1 m 14	7.5 0 8.
1.10	Monitoring	Comula Data		TPH (mg/L)	100.00
1.139	Monitoring Well ID	Sample Date	GRO	TPH (mg/L) DRO	MRO
	_	Sample Date 2/23/2023	GRO <0.0500		
1	Well ID	-		DRO	MRO
V	Well ID MW-01	2/23/2023	<0.0500	DRO 0.11	MRO 0.22 n
N N	Well ID MW-01	2/23/2023 2/23/2023	<0.0500 <0.0500	DRO 0.11 <0.051	MRO 0.22 n <0.10 n
	Well ID MW-01	2/23/2023 2/23/2023 6/20/2023	<0.0500 <0.0500 <0.0500 0.576	DRO 0.11 <0.051 0.16	MRO 0.22 n <0.10 n 0.23 n 40 n

	Monitoring	Comula Data	TPH (mg/L)		
5	Well ID	Sample Date	GRO	DRO	MRO
1	MW-03	2/22/2023	<0.0500	0.079	0.31 n
		6/20/2023	<0.0500	<0.052	0.13 n
		9/14/2023	0.244	<0.051	<0.10 n
-		12/13/2023	<0.0500	<0.052	<0.10 n

and the second second	and the second second				the second se
	Monitoring	ring		TPH (mg/L)	
1. 14	Well ID	Sample Date	GRO	DRO	MRO
MW-04	MW-04	2/22/2023	<0.0500	<0.049	<0.099 n
		6/20/2023	<0.0500	0.080	<0.10 n
18. 20 1		9/14/2023	0.421	0.12	0.19 n
ale ale		12/13/2023	<0.0500	0.17	0.54 n
The same	(Dup)	12/13/2023	<0.0500	0.12	0.49 n
	1 de	123			and a
		15	2.30	1.10	100
		- 15	19	28	1 m

T:\1-PRO	LEGEND	NOTES:	
; File Path:		NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) DOES NOT HAVE A GROUNDWATER ACTION LEVEL FOR TPH. TPH = TOTAL PETROLEUM HYDROCARBONS. GRO = GASOLINE RANGE ORGANICS.	0 12.5
11:58:33 AM	= = = 6" GATHERING LINE	DRO = DIESEL RANGE ORGANICS. MRO = MOTOR OIL RANGE ORGANICS. MG/L = MILLIGRAMS PER LITER.	1:300
n 4/29/2024,	KELEASE LOCATION	(DUP) = DUPLICATE SAMPLE DATA. n = NOT OFFERED FOR ACCREDITATION. * = MEASURABLE LNAPL PRESENT IN WELL MW-01 IN SEPTEMBER AND DECEMBER 2023.	
V: BTRACY o		MW-01 NOT SAMPLED IN DECEMBER 2023 DUE TO THE PRESENCE OF LNAPL. DETECTED CONCENTRATIONS REPORTED IN BOLD .	
Saved By		BASE MAP: GOOGLE AND THEIR DATA PARTNERS (1/3/2023). Data Sources: TRC	

MW-05

MW-03

MW

MW-0

8		PROJECT: HOLLY ENERGY PARTNERS - OPERATING, L.P. MONUMENT, LEA COUNTY, NEW MEXICO WTX TO EMSU BATTERY RELEASE SITE			
12.5	25 FEET 1" = 25'	SUMMARY OF 2023 GROUNDWATER SAMPLE ANALYTICAL RESULTS			
		DRAWN BY:	R. COLLINS	PROJ. NO.:	584282.0000.0000
		CHECKED BY:	D. CLARK		
		APPROVED BY:	J. STOFFEL	F	IGURE 7
		DATE:	APRIL 2024		
		T	RC		ST HUNTLAND DRIVE SUITE #250 AUSTIN, TX 78752 PHONE: 512.329.6080
		FILE:		58	4282_WTX_GW_2023.APRX

ATTACHMENT A – COPIES OF E-MAIL CORRESPONDENCE

Stoffel, Jared

From: Sent: To: Cc: Subject:	Hensley, Chad, EMNRD <chad.hensley@state.nm.us> Tuesday, April 5, 2022 4:42 PM Stoffel, Jared; Bratcher, Mike, EMNRD Gilbert, Bryan; Sahba, Arsin M.; Melanie Nolan; Trevor.baird; mark.shemaria; Clark, Darija; Helbert, Dana; Hoover, Shannon; Varnell, Richard RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)</chad.hensley@state.nm.us>
Follow Up Flag:	Follow up
Flag Status:	Flagged

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Jared,

The OCD approves this workplan. Please proceed with the project.

Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <JStoffel@trccompanies.com>
Sent: Friday, April 1, 2022 2:59 PM

To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; mark.shemaria <mark.shemaria@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com> Subject: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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

Mr. Hensley and Mr. Bratcher,

Please see the attached addendum to the NMOCD-approved November 12, 2021, Site Characterization Report and Remediation Workplan for the WTX to EMSU Battery to Byrd Pump Segment Crude Oil Release Site (NOY1822242858). Included in the appendices are the requested C-108 form and associated federal underground injection form. Please let us know if you require any additional information. Otherwise we will stand by for NMOCD's approval of the Remediation Workplan Addendum and the authorization to inject.

Thank you.

Jared Stoffel, P.G. **Project Manager**



505 E Huntland Dr STE 250 Austin, TX 78752 **505 E Huntland Dr STE 250 Aus F: 512 329 8750 | C: 432 238 3003 LipkedIn | Twitter | Blog | TPCcon** LinkedIn | Twitter | Blog | TRCcompanies.com

Stoffel, Jared

From: Sent: To: Cc: Subject:	Hensley, Chad, EMNRD <chad.hensley@state.nm.us> Thursday, April 7, 2022 8:16 AM Stoffel, Jared; Bratcher, Mike, EMNRD Gilbert, Bryan; Sahba, Arsin M.; Melanie Nolan; Trevor.baird; mark.shemaria; Clark, Darija; Helbert, Dana; Hoover, Shannon; Varnell, Richard RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)</chad.hensley@state.nm.us>
Follow Up Flag:	Follow up
Flag Status:	Flagged

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Jared,

Good morning. The approval is for UIC and the remediation.

Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <JStoffel@trccompanies.com>

Sent: Wednesday, April 6, 2022 3:42 PM

To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; mark.shemaria <mark.shemaria@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Stoffel, Jared

From:	Stoffel, Jared
Sent:	Monday, August 1, 2022 11:29 AM
То:	Nobui, Jennifer, EMNRD; Billings, Bradford, EMNRD; mike.bratcher@state.nm.us
Cc:	Gilbert, Bryan; Sahba, Arsin M.; Melanie Nolan; Trevor.baird; Clark, Darija; Helbert, Dana; Hoover,
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Thank you.

Jared Stoffel, P.G. **Project Manager**



 505 E Huntland Dr STE 250 Austin, TX 78752

 F: 512 329 8750 | C: 432 238 3003

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Stoffel, Jared

From:	Stoffel, Jared
Sent:	Friday, August 12, 2022 1:49 PM
То:	Billings, Bradford, EMNRD; Nobui, Jennifer, EMNRD; mike.bratcher@state.nm.us
Cc:	Sahba, Arsin; Trevor.baird; Melanie Nolan; Clark, Darija; Gilbert, Bryan; Hoover, Shannon; Helbert,
	Dana; Varnell, Richard
Subject:	RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

All,

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- Remedial Excavation and Sampling Due to the revised bioventing pilot test and quarterly groundwater monitoring schedules, remedial excavation and sampling activities are scheduled for August 17 to 19.

Please let me know if you have any questions or concerns. Thank you.

Jared Stoffel. P.G. **Project Manager**



505 E Huntland Dr STE 250 Austin, TX 78752 F: 512 329 8750 **C:** 432 238 3003 LinkedIn | Twitter | Blog | TRCcompanies.com

From: Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us> Sent: Thursday, August 4, 2022 11:48 AM To: Stoffel, Jared <JStoffel@trccompanies.com> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Hi,

Thank you for notification. Please keep this communication and include in allied report(s).

Bradford Billings EMNRD/OCD

From: Stoffel, Jared <JStoffel@trccompanies.com>

Sent: Monday, August 1, 2022 10:29 AM

To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Billings, Bradford, EMNRD

<Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

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Stoffel, Jennifer R.

From:	Billings, Bradford, EMNRD <bradford.billings@state.nm.us></bradford.billings@state.nm.us>
Sent:	Monday, August 15, 2022 12:20 PM
То:	Stoffel, Jared
Subject:	RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated
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Please let me know if you have any questions or concerns. Thank you.

Jared Stoffel, P.G. Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752 F: 512 329 8750 **C:** 432 238 3003 LinkedIn | Twitter | Blog | TRCcompanies.com

From: Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us> Sent: Thursday, August 4, 2022 11:48 AM To: Stoffel, Jared <JStoffel@trccompanies.com> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Hi,

Thank you for notification. Please keep this communication and include in allied report(s).

Bradford Billings EMNRD/OCD

From: Stoffel, Jared <JStoffel@trccompanies.com>

Sent: Monday, August 1, 2022 10:29 AM

To: Nobui, Jennifer, EMNRD < Jennifer.Nobui@state.nm.us>; Billings, Bradford, EMNRD

<Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan

<melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; Clark, Darija

<dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon

<SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

All,

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Jared Stoffel, P.G. Project Manager



From: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>

Sent: Thursday, April 7, 2022 8:16 AM

To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>> Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; mark.shemaria <<u>mark.shemaria@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>

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Jared,

Good morning. The approval is for UIC and the remediation.

Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>> Sent: Wednesday, April 6, 2022 3:42 PM To: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>> Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; mark.shemaria <<u>mark.shemaria@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms

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Jared,

The OCD approves this workplan. Please proceed with the project.

Cheers,

Chad Hensley • Environmental Science & Specialist **Environmental Bureau** EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <JStoffel@trccompanies.com> Sent: Friday, April 1, 2022 2:59 PM

To: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; mark.shemaria <mark.shemaria@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>

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Mr. Hensley and Mr. Bratcher,

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Thank you.

Jared Stoffel, P.G. **Project Manager**



 505 E Huntland Dr STE 250 Austin, TX 78752

 F: 512 329 8750 | C: 432 238 3003

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Stoffel, Jared

From:	Nobui, Jennifer, EMNRD <jennifer.nobui@state.nm.us></jennifer.nobui@state.nm.us>
Sent:	Wednesday, August 17, 2022 1:59 PM
То:	Stoffel, Jared; Billings, Bradford, EMNRD; Bratcher, Mike, EMNRD
Cc:	Sahba, Arsin; Trevor.baird; Melanie Nolan; Clark, Darija; Gilbert, Bryan; Hoover, Shannon;
	Helbert, Dana; Varnell, Richard; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
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Thank you Jared 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.

Please let us know if you encounter any delays or have any questions.

Thanks, Jennifer Nobui

From: Stoffel, Jared <JStoffel@trccompanies.com>
Sent: Friday, August 12, 2022 12:49 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Nobui, Jennifer, EMNRD
<Jennifer.Nobui@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
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Jared Stoffel, P.G. **Project Manager**



505 E Huntiand Di Si E 200 million F: 512 329 8750 | C: 432 238 3003 LinkedIn | Twitter | Blog | TRCcompanies.com 505 E Huntland Dr STE 250 Austin, TX 78752

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Jared,

Good morning. The approval is for UIC and the remediation.

Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



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Jared Stoffel, P.G. **Project Manager**



 505 E Huntland Dr STE 250 Austin, TX 78752

 F: 512 329 8750 | C: 432 238 3003

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Sent: Tuesday, April 5, 2022 4:42 PM

To: Stoffel, Jared <JStoffel@trccompanies.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; mark.shemaria <mark.shemaria@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>

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Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



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Sent: Friday, April 1, 2022 2:59 PM
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Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>; Melanie Nolan
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Thank you.

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Jared Stoffel, P.G. **Project Manager**



 505 E Huntland Dr STE 250 Austin, TX 78752

 F: 512 329 8750 | C: 432 238 3003

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Stoffel, Jared

From:	Gilbert, Bryan
Sent:	Tuesday, August 23, 2022 5:31 PM
То:	Nobui, Jennifer, EMNRD; Stoffel, Jared; Billings, Bradford, EMNRD; Bratcher, Mike, EMNRD
Cc:	Sahba, Arsin; Trevor.baird; Melanie Nolan; Clark, Darija; Hoover, Shannon; Helbert, Dana; Varnell, Richard; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Good Afternoon Jennifer,

Based on the initial confirmation soil sample analytical results for the excavation performed on August 17 and 18, additional remedial excavation and sampling will be conducted at the site on Thursday, August 25.

Please let me know if you have any questions or concerns.

Thanks!

Bryan Gilbert, P.G. Austin Office ECW Practice Leader



505 E. Huntland Drive, Suite 250, Austin, TX 78752 C: 925.699.6184 | F: 512.329.8750 LinkedIn | Twitter | Blog | TRCcompanies.com

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>

Sent: Wednesday, August 17, 2022 1:59 PM

To: Stoffel, Jared <JStoffel@trccompanies.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>

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Thanks, Jennifer Nobui

From: Stoffel, Jared <JStoffel@trccompanies.com> Sent: Friday, August 12, 2022 12:49 PM To: Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Sahba, Arsin <Arsin.Sahba@HFSinclair.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Gilbert, Bryan <BGilbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Hi,

Thank you for notification. Please keep this communication and include in allied report(s).

Bradford Billings EMNRD/OCD

From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>> Sent: Monday, August 1, 2022 10:29 AM To: Nobui, Jennifer, EMNRD < Jennifer.Nobui@state.nm.us>; Billings, Bradford, EMNRD <<u>Bradford.Billings@state.nm.us>;</u> Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>> Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

All.

I would like to submit a notification that the pilot test, soil boring activities, remedial excavation activities, and quarterly groundwater sampling activities are all scheduled to begin this week on August 3, 2022. The activities are projected to be completed within 2 weeks. This email is intended to notify you of both the remedial and monitoring activities occurring onsite and the collection of final samples from the remedial excavation during this time period in accordance with NMAC 19.15.29.12 D(1)(a). Please let me know if there are any questions or concerns. Thank you.

Jared Stoffel, P.G. **Project Manager**



505 E Huntland Dr STE 250 Austin, TX 78752 F: 512 329 8750 | C: 432 238 3003 LinkedIn | Twitter | Blog | TRCcompanies.com

From: Hensley, Chad, EMNRD < Chad.Hensley@state.nm.us> Sent: Thursday, April 7, 2022 8:16 AM To: Stoffel, Jared <JStoffel@trccompanies.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; mark.shemaria <mark.shemaria@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana

<<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>

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Jared,

Good morning. The approval is for UIC and the remediation.

Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>> Sent: Wednesday, April 6, 2022 3:42 PM

To: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>> Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; mark.shemaria <<u>mark.shemaria@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Chad,

We would like to clarify if this also includes the approval of the injection permits, or if that come separately from the Underground Injection group? Pending approval of the injection permits, as needed, we will proceed with field work following the completion of calving season as requested by the landowner. We will notify you when calving season has completed and the landowner has given us permission to access the property. Thank you very much for the approval to proceed and the additional clarification with regards to the injection permitting process.

Jared Stoffel, P.G. Project Manager



From: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>

Sent: Tuesday, April 5, 2022 4:42 PM

To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>> Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; mark.shemaria <<u>mark.shemaria@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>

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Jared,

The OCD approves this workplan. Please proceed with the project.

Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>> Sent: Friday, April 1, 2022 2:59 PM To: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>> Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; mark.shemaria <mark.shemaria@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>

Subject: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Mr. Hensley and Mr. Bratcher,

Please see the attached addendum to the NMOCD-approved November 12, 2021, Site Characterization Report and Remediation Workplan for the WTX to EMSU Battery to Byrd Pump Segment Crude Oil Release Site (NOY1822242858). Included in the appendices are the requested C-108 form and associated federal underground injection form. Please let us know if you require any additional information. Otherwise we will stand by for NMOCD's approval of the Remediation Workplan Addendum and the authorization to inject.

Thank you.

Jared Stoffel, P.G. **Project Manager**



 505 E Huntland Dr STE 250 Austin, TX 78752

 F: 512 329 8750 | C: 432 238 3003

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Stoffel, Jared

From:	Nobui, Jennifer, EMNRD <jennifer.nobui@state.nm.us></jennifer.nobui@state.nm.us>
Sent:	Tuesday, August 23, 2022 5:34 PM
То:	Gilbert, Bryan; Stoffel, Jared; Billings, Bradford, EMNRD; Bratcher, Mike, EMNRD
Cc:	Sahba, Arsin; Trevor.baird; Melanie Nolan; Clark, Darija; Hoover, Shannon; Helbert, Dana;
	Varnell, Richard; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated
	Federal Forms (NOY1822242858)

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ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Thanks Gilbert 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.

Thanks, Jennifer Nobui

From: Gilbert, Bryan <BGilbert@trccompanies.com>

Sent: Tuesday, August 23, 2022 4:31 PM

To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Stoffel, Jared <JStoffel@trccompanies.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
 Cc: Sahba, Arsin <Arsin.Sahba@HFSinclair.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
 Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms

Good Afternoon Jennifer,

(NOY1822242858)

Based on the initial confirmation soil sample analytical results for the excavation performed on August 17 and 18, additional remedial excavation and sampling will be conducted at the site on Thursday, August 25.

Please let me know if you have any questions or concerns.

Thanks!

Bryan Gilbert, P.G. Austin Office ECW Practice Leader



505 E. Huntland Drive, Suite 250, Austin, TX 78752 C: 925.699.6184 | F: 512.329.8750 LinkedIn | Twitter | Blog | TRCcompanies.com

From: Nobui, Jennifer, EMNRD < Jennifer.Nobui@state.nm.us> Sent: Wednesday, August 17, 2022 1:59 PM To: Stoffel, Jared <JStoffel@trccompanies.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Sahba, Arsin <Arsin.Sahba@HFSinclair.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Helbert, Dana <DHelbert@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@state.nm.us</u>> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Thank you Jared 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.

Please let us know if you encounter any delays or have any questions.

Thanks, Jennifer Nobui

From: Stoffel, Jared <JStoffel@trccompanies.com> Sent: Friday, August 12, 2022 12:49 PM To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Sahba, Arsin <Arsin.Sahba@HFSinclair.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Gilbert, Bryan <BGilbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

All,

I would like to follow up on our notification of the pilot test, soil boring activities, remedial excavation activities, and guarterly groundwater sampling activities with an updated timeline. Field activities were projected to be completed by August 12. An updated timeline is provided below.

- Bioventing Pilot Test Field activities began on August 3, 2022, but the pilot test did not commence until August 9 (Day 1) due to equipment issues and troubleshooting. The pilot test is anticipated to be complete on August 15 (Day 7).
- Soil Boring Drilling was originally scheduled for August 8. Due to a change in drill rig availability (the drill rig scheduled for the work was not operational), drilling is now scheduled for August 15.
- Quarterly Groundwater Monitoring Due to the revised bioventing pilot test schedule (the monitoring wells cannot be gauged and sampled during the pilot test), quarterly groundwater monitoring activities are scheduled to begin August 16. This is a slight deviation from the schedule presented in the April 2022 Remediation Work Plan Addendum, which indicated quarterly groundwater monitoring would commence within 90 days of NMOCD approval of the Work Plan (i.e., August 13). Groundwater monitoring activities are expected to take 1 - 2 days.
- Remedial Excavation and Sampling Due to the revised bioventing pilot test and quarterly groundwater ٠ monitoring schedules, remedial excavation and sampling activities are scheduled for August 17 to 19.

Please let me know if you have any questions or concerns. Thank you.

Jared Stoffel, P.G. **Project Manager**



505 E Huntiand Di Gre 200 F: 512 329 8750 | **C**: 432 238 3003 LinkedIn | Twitter | Blog | TRCcompanies.com 505 E Huntland Dr STE 250 Austin, TX 78752

From: Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us> Sent: Thursday, August 4, 2022 11:48 AM To: Stoffel, Jared <JStoffel@trccompanies.com> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Hi,

Thank you for notification. Please keep this communication and include in allied report(s).

Bradford Billings EMNRD/OCD

From: Stoffel, Jared <JStoffel@trccompanies.com> Sent: Monday, August 1, 2022 10:29 AM To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

All,

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Jared Stoffel, P.G. Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752 TRC
 505 E Huntland Dr STE 250 Aus
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From: Hensley, Chad, EMNRD < Chad. Hensley@state.nm.us>

Sent: Thursday, April 7, 2022 8:16 AM

To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>> Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; mark.shemaria <mark.shemaria@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>

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Jared,

Good morning. The approval is for UIC and the remediation.

Cheers,

Chad Hensley • Environmental Science & Specialist **Environmental Bureau** EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210

Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <JStoffel@trccompanies.com>

Sent: Wednesday, April 6, 2022 3:42 PM

To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; mark.shemaria <mark.shemaria@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Chad,

We would like to clarify if this also includes the approval of the injection permits, or if that come separately from the Underground Injection group? Pending approval of the injection permits, as needed, we will proceed with field work following the completion of calving season as requested by the landowner. We will notify you when calving season has completed and the landowner has given us permission to access the property. Thank you very much for the approval to proceed and the additional clarification with regards to the injection permitting process.

Jared Stoffel, P.G. **Project Manager**



 505 E Huntland Dr STE 250 Austin, TX 78752

 F: 512 329 8750 | C: 432 238 3003

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From: Hensley, Chad, EMNRD < Chad.Hensley@state.nm.us>

Sent: Tuesday, April 5, 2022 4:42 PM

To: Stoffel, Jared <JStoffel@trccompanies.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; mark.shemaria <mark.shemaria@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>

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Jared,

The OCD approves this workplan. Please proceed with the project.

Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>
Sent: Friday, April 1, 2022 2:59 PM
To: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>
Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>; Melanie Nolan
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<<u>RVarnell@trccompanies.com</u>>
Subject: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms
(NOY1822242858)

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Mr. Hensley and Mr. Bratcher,

Please see the attached addendum to the NMOCD-approved November 12, 2021, *Site Characterization Report and Remediation Workplan* for the WTX to EMSU Battery to Byrd Pump Segment Crude Oil Release Site (NOY1822242858). Included in the appendices are the requested C-108 form and associated federal underground injection form. Please let us know if you require any additional information. Otherwise we will stand by for NMOCD's approval of the Remediation Workplan Addendum and the authorization to inject.

Thank you.

.

Jared Stoffel, P.G. **Project Manager**



 505 E Huntland Dr STE 250 Austin, TX 78752

 F: 512 329 8750 | C: 432 238 3003

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Stoffel, Jared

From:	Nobui, Jennifer, EMNRD <jennifer.nobui@emnrd.nm.gov></jennifer.nobui@emnrd.nm.gov>
Sent:	Tuesday, December 13, 2022 12:48 PM
То:	Stoffel, Jared
Cc:	Billings, Bradford, EMNRD; Bratcher, Michael, EMNRD; Melanie Nolan; Gilbert, Bryan;
	Pearson, Christopher; Leik, Jason; Sahba, Arsin; Velez, Nelson, EMNRD
Subject:	RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated
	Federal Forms (NOY1822242858)

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Hello Jared

Your Remedial Plan for full scale implementation of the bioventing system has been approved. OCD approved it in the OCD portal on 11/28/22 with APP ID # 150523. But you can use this email as well for final approval. I will also make note of final approval of full scale bioventing system implementation in the Incident Events Notes. Please save this email and include it in the upcoming start up report. Let me know if you have any questions.

Thanks Jennifer Nobui

From: Stoffel, Jared <JStoffel@trccompanies.com> Sent: Tuesday, December 13, 2022 9:02 AM To: Nobui, Jennifer, EMNRD < Jennifer.Nobui@emnrd.nm.gov> Cc: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Gilbert, Bryan <BGilbert@trccompanies.com>; Pearson, Christopher <CPearson@trccompanies.com>; Leik, Jason <Jason.Leik@HFSinclair.com>; Sahba, Arsin <Arsin.Sahba@HFSinclair.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Understood and noted. Please let me know if there are any other questions, comments, or concerns – otherwise we look forward to hearing back regarding the approval of the full-scale system through the portal. Thank you very much!

Jared Stoffel, P.G. **Project Manager**



505 E Huntland Dr STE 250 Austin, TX 78752 F: 512 329 8750 **C:** 432 238 3003 **Linkedin J Twitter J Plan J TPC** LinkedIn | Twitter | Blog | TRCcompanies.com

From: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>
Sent: Monday, December 12, 2022 3:38 PM
To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>
Cc: Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD
<<u>mike.bratcher@emnrd.nm.gov</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Gilbert, Bryan
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<Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms

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(NOY1822242858)

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Thank you Jared for the response below. One quick addition for item #7

 The proposed bioventing wells should be considered 'remediation wells' and thus do not require a C-108 or Class V injection permit approval. No additional action is required on behalf of HEP with respect to the C-108 or Class V injection permits.

Please note that each well needs to be named (nomenclature) and tracked individually, each wells' data produced and operating time needs to be tracked and documented just in case EPA contacts you regarding these wells. Please make note of that correction.

Thanks, Jennifer Nobui

From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>
Sent: Monday, December 12, 2022 2:15 PM
To: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>
Cc: Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD
<<u>mike.bratcher@emnrd.nm.gov</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Gilbert, Bryan
<<u>BGilbert@trccompanies.com</u>>; Pearson, Christopher <<u>CPearson@trccompanies.com</u>>; Leik, Jason
<<u>Jason.Leik@HFSinclair.com</u>>; Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>
Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

All,

Thank you very much for meeting with us regarding the WTX to EMSU Remediation and Bioventing Pilot Test Summary and Full-Scale Bioventing System Recommendation Report submitted October 10, 2022. A brief summary of our meeting and path forward is provided below.

- 1. Soil boring SB-19A results showed no BTEX detected in soil above Closure Criteria. No further action with regards to SB-19A.
- 2. Remedial excavation was completed in accordance with the April 1, 2022 Work Plan Addendum that was approved by the OCD on April 5, 2022. Affected soil from surface to 4.5' bgs has been removed from the site.

- 3. Affected soil deeper than 4.5 feet bgs will be addressed during proposed full-scale bioventing.
- 4. HEP's interpretation of the bioventing pilot test results were supported by OCD as discussed during the call, including:
 - a. pressure propagation shows an effective injection ROI of up to 90 feet; and
 - b. the effective injection ROI indicated by the pressure propagation was corroborated by the soil gas results, including oxygen, VOCs, and carbon dioxide.
- 5. HEP's proposed full-scale bioventing system design was generally consistent with OCD's expectations as discussed during the call.
- 6. OCD has requested that HEP conduct weekly operations and maintenance (O&M) of the bioventing system for 1 to 2 months following installation and start-up rather than 2-3 weeks proposed by HEP. HEP will evaluate the weekly O&M data after 1 month of operation and will use this data to determine if a second month of weekly O&M is appropriate.
- 7. The proposed bioventing wells should be considered 'remediation wells' and thus **do not** require a C-108 or Class V injection permit approval. No additional action is required on behalf of HEP with respect to the C-108 or Class V injection permits.
- 8. OCD has requested that confirmation soil borings be proposed for OCD approval once bioventing system data indicate bioventing objectives have been achieved.

Based on our meeting, we anticipate a conditional approval of the October 12, 2022 Remediation and Bioventing Pilot Test Summary and Full-Scale Bioventing System Recommendation Report, thus an additional revision and submittal by HEP to the OCD will not be required. The primary change to the October 2022 report requested by OCD is the additional weekly system O&M following installation and startup (1-2 months rather than 2-3 weeks). HEP does not expect to receive a response or approval of the C-108/Class V permits provided in the October 12, 2022 Remediation and Bioventing Pilot Test Summary and Full-Scale Bioventing System Recommendation Report in order to enact the proposed full-scale bioventing remedy. Please let me know if I've missed or mischaracterized any of our items of discussion.

Again, thank you for taking the time to review the bioventing results and recommendations with us.

Jared Stoffel, P.G. **Project Manager**



505 E Humand Di Gre 200 F: 512 329 8750 | C: 432 238 3003 LinkedIn | Twitter | Blog | TRCcompanies.com 505 E Huntland Dr STE 250 Austin, TX 78752

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>

Sent: Thursday, December 1, 2022 3:44 PM

To: Stoffel, Jared <JStoffel@trccompanies.com>

Cc: Billings, Bradford, EMNRD < Bradford.Billings@emnrd.nm.gov>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Gilbert, Bryan

<BGilbert@trccompanies.com>; Pearson, Christopher <CPearson@trccompanies.com>; Leik, Jason

<Jason.Leik@HFSinclair.com>; Sahba, Arsin <Arsin.Sahba@HFSinclair.com>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Hello Jared

We are available for a discussion December 6, 2022 Tuesday at 3pm MST. Please send us an evite.

Thanks Jennifer Nobui

From: Stoffel, Jared <JStoffel@trccompanies.com> Sent: Thursday, December 1, 2022 2:03 PM To: Nobui, Jennifer, EMNRD < Jennifer.Nobui@emnrd.nm.gov> Cc: Billings, Bradford, EMNRD < Bradford.Billings@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Gilbert, Bryan <BGilbert@trccompanies.com>; Pearson, Christopher <CPearson@trccompanies.com>; Leik, Jason <Jason.Leik@HFSinclair.com>; Sahba, Arsin <Arsin.Sahba@HFSinclair.com> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Jennifer -

Thank you for discussing the WTX to EMSU site with me yesterday. As we discussed, we have already completed the excavation, soil boring installation, and bioventing pilot test activities as approved by Chad Hensley on April 5, 2022. The most recently submitted report (submitted on October 12, 2022) documents the excavation, soil boring, and the results of the bioventing pilot test and provides recommendations for the full-scale bioventing system. I've attached the report for reference - I know there have been multiple submissions for this Site, and want to ensure that we both are referencing the same document.

In order to facilitate our additional discussion of what has occurred to date and answer any questions regarding the bioventing pilot test results, we would like to conduct a meeting with you and your team. Our team's availability (cc'd in this email) for this week and next week include:

December 2: any time of day December 5: After 4 MST December 6: After 3 MST December 7: After 2:30 MST December 9: After 2 MST

Would any of these days and times work for you? If so, I will set up a Teams meeting at your preferred time. Thank you very much!

Jared Stoffel, P.G. **Project Manager**



505 E Huntland Dr STE 250 Austin, TX 78752 TRC
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From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov> Sent: Monday, November 28, 2022 11:12 AM

To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>
 Cc: Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD<<<u>mike.bratcher@emnrd.nm.gov</u>>
 Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms

(NOY1822242858)

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Hello Jared

I wanted to let you know that the Remediation Plan for the above-referenced site detailing a pilot test for bioventing has been approved with conditions. OCD has approved the proposed excavation activities and the advancement of a soil boring. In addition, OCD has approved the implementation of a pilot test for bioventing. However, please do not proceed with the full scale implementation of the bioventing system until OCD has had the opportunity to review the pilot test data to evaluate effectiveness of a full scale system. Please schedule a meeting with OCD after the pilot test has been completed so we can go over the data.

Also, at this time you are not required to submit a C-108 form or a EPA UDS Sheet. That will need to be addressed once full scale implementation is approved. Please let me know if you have any questions.

Thanks,

Jennifer Nobui, PG • Environmental Specialist A Environmental Bureau EMNRD - Oil Conservation Division 5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113 505.470-3407 | Jennifer.Nobui@state.nm.us http://www.emnrd.state.nm.us/OCD/

From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Sent: Thursday, October 13, 2022 11:24 AM

To: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>; Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>> Cc: Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Varnell, Richard

<<u>RVarnell@trccompanies.com</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Jennifer,

I wanted to provide an update that the report documenting the pilot test and soil remediation activities along with the full-scale bioventing system recommendations has been submitted through the portal. Please let me know if you have any questions that arise during your review. Thank you very much!

Jared Stoffel, P.G. **Project Manager**



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From: Nobui, Jennifer, EMNRD < Jennifer.Nobui@state.nm.us>

Sent: Tuesday, August 23, 2022 5:34 PM

To: Gilbert, Bryan <BGilbert@trccompanies.com>; Stoffel, Jared <JStoffel@trccompanies.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Cc: Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; Melanie Nolan

<melanie.nolan@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Hoover, Shannon

<<u>SHoover@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Varnell, Richard <RVarnell@trccompanies.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Thanks Gilbert 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.

Thanks. Jennifer Nobui

From: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>

Sent: Tuesday, August 23, 2022 4:31 PM

To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Stoffel, Jared <JStoffel@trccompanies.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> **Cc:** Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Good Afternoon Jennifer.

Based on the initial confirmation soil sample analytical results for the excavation performed on August 17 and 18, additional remedial excavation and sampling will be conducted at the site on Thursday, August 25.

Please let me know if you have any questions or concerns.

Thanks!

Bryan Gilbert, P.G. Austin Office ECW Practice Leader



505 E. Huntland Drive, Suite 250, Austin, TX 78752 C: 925.699.6184 | F: 512.329.8750 LinkedIn | Twitter | Blog | TRCcompanies.com

From: Nobui, Jennifer, EMNRD < Jennifer.Nobui@state.nm.us> Sent: Wednesday, August 17, 2022 1:59 PM To: Stoffel, Jared <JStoffel@trccompanies.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Gilbert, Bryan <BGilbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Thank you Jared 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.

Please let us know if you encounter any delays or have any questions.

Thanks, Jennifer Nobui

From: Stoffel, Jared <JStoffel@trccompanies.com>

Sent: Friday, August 12, 2022 12:49 PM

To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Cc: Sahba, Arsin <Arsin.Sahba@HFSinclair.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; Melanie Nolan

<melanie.nolan@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Gilbert, Bryan

<BGilbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Helbert, Dana

<<u>DHelbert@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

All,

I would like to follow up on our notification of the pilot test, soil boring activities, remedial excavation activities, and quarterly groundwater sampling activities with an updated timeline. Field activities were projected to be completed by August 12. An updated timeline is provided below.

- Bioventing Pilot Test Field activities began on August 3, 2022, but the pilot test did not commence until August 9 (Day 1) due to equipment issues and troubleshooting. The pilot test is anticipated to be complete on August 15 (Day 7).
- Soil Boring Drilling was originally scheduled for August 8. Due to a change in drill rig availability (the drill rig ٠ scheduled for the work was not operational), drilling is now scheduled for August 15.
- Quarterly Groundwater Monitoring Due to the revised bioventing pilot test schedule (the monitoring wells cannot be gauged and sampled during the pilot test), quarterly groundwater monitoring activities are scheduled to begin August 16. This is a slight deviation from the schedule presented in the April 2022 Remediation Work Plan Addendum, which indicated quarterly groundwater monitoring would commence within 90 days of NMOCD approval of the Work Plan (i.e., August 13). Groundwater monitoring activities are expected to take 1 - 2 days.
- Remedial Excavation and Sampling Due to the revised bioventing pilot test and quarterly groundwater monitoring schedules, remedial excavation and sampling activities are scheduled for August 17 to 19.

Please let me know if you have any questions or concerns. Thank you.

Jared Stoffel, P.G. Project Manager



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From: Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us> Sent: Thursday, August 4, 2022 11:48 AM To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Hi,

Thank you for notification. Please keep this communication and include in allied report(s).

Bradford Billings EMNRD/OCD

From: Stoffel, Jared <JStoffel@trccompanies.com> Sent: Monday, August 1, 2022 10:29 AM To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

All,

I would like to submit a notification that the pilot test, soil boring activities, remedial excavation activities, and quarterly groundwater sampling activities are all scheduled to begin this week on August 3, 2022. The activities are projected to be completed within 2 weeks. This email is intended to notify you of both the remedial and monitoring activities occurring onsite and the collection of final samples from the remedial excavation during this time period in accordance with NMAC 19.15.29.12 D(1)(a). Please let me know if there are any questions or concerns. Thank you.

Jared Stoffel. P.G. **Project Manager**



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From: Hensley, Chad, EMNRD < Chad.Hensley@state.nm.us>

Sent: Thursday, April 7, 2022 8:16 AM

To: Stoffel, Jared <JStoffel@trccompanies.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Sahba, Arsin M. <arsin.sahba@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; mark.shemaria <mark.shemaria@hollyenergy.com>; Clark, Darija <dclark@trccompanies.com>; Helbert, Dana <DHelbert@trccompanies.com>; Hoover, Shannon <SHoover@trccompanies.com>; Varnell, Richard <RVarnell@trccompanies.com>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Jared.

Good morning. The approval is for UIC and the remediation.

Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Sent: Wednesday, April 6, 2022 3:42 PM

To: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>> Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; mark.shemaria <<u>mark.shemaria@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Chad,

We would like to clarify if this also includes the approval of the injection permits, or if that come separately from the Underground Injection group? Pending approval of the injection permits, as needed, we will proceed with field work following the completion of calving season as requested by the landowner. We will notify you when calving season has completed and the landowner has given us permission to access the property. Thank you very much for the approval to proceed and the additional clarification with regards to the injection permitting process.

Jared Stoffel, P.G. Project Manager

 505 E Huntland Dr STE 250 Austin, TX 78752

 F: 512 329 8750 | C: 432 238 3003

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From: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>
Sent: Tuesday, April 5, 2022 4:42 PM
To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>
Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>; Melanie Nolan
<melanie.nolan@hollyenergy.com>; Trevor.baird <Trevor.baird@hollyenergy.com>; mark.shemaria

<<u>mark.shemaria@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <RVarnell@trccompanies.com>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Jared,

The OCD approves this workplan. Please proceed with the project.

Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Sent: Friday, April 1, 2022 2:59 PM

To: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>> Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; mark.shemaria <<u>mark.shemaria@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <RVarnell@trccompanies.com>

Subject: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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

Mr. Hensley and Mr. Bratcher,

Please see the attached addendum to the NMOCD-approved November 12, 2021, *Site Characterization Report and Remediation Workplan* for the WTX to EMSU Battery to Byrd Pump Segment Crude Oil Release Site

(NOY1822242858). Included in the appendices are the requested C-108 form and associated federal underground injection form. Please let us know if you require any additional information. Otherwise we will stand by for NMOCD's approval of the Remediation Workplan Addendum and the authorization to inject.

Thank you.

Jared Stoffel, P.G. **Project Manager**



 505 E Huntland Dr STE 250 Austin, TX 78752

 F: 512 329 8750 | C: 432 238 3003

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Stoffel, Jared

From:	Nobui, Jennifer, EMNRD <jennifer.nobui@emnrd.nm.gov></jennifer.nobui@emnrd.nm.gov>
Sent:	Thursday, December 15, 2022 1:10 PM
То:	Stoffel, Jared; Billings, Bradford, EMNRD; Bratcher, Michael, EMNRD
Cc:	Melanie Nolan; Sahba, Arsin; Leik, Jason; Gilbert, Bryan; Clark, Darija; Harimon, Jocelyn, EMNRD
Subject:	RE: [EXTERNAL] WTX to EMSU Groundwater Sampling Notification (NOY1822241858)

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Hello Jared

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.

Thanks, Jennifer Nobui

From: Stoffel, Jared <JStoffel@trccompanies.com> Sent: Thursday, December 15, 2022 11:46 AM To: Nobui, Jennifer, EMNRD < Jennifer.Nobui@emnrd.nm.gov>; Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov> Cc: Melanie Nolan <melanie.nolan@hollyenergy.com>; Sahba, Arsin <Arsin.Sahba@HFSinclair.com>; Leik, Jason <Jason.Leik@HFSinclair.com>; Gilbert, Bryan <BGilbert@trccompanies.com>; Clark, Darija <dclark@trccompanies.com> Subject: [EXTERNAL] WTX to EMSU Groundwater Sampling Notification (NOY1822241858)

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

Jennifer –

TRC, on the behalf of HEP, will be conducting the 4th quarter groundwater sampling event at the WTX to EMSU site (NOY1822241858) on December 20, 2022. We expect the event duration to be 1 day. Please let me know if you have any questions or concerns. Thank you.

Jared Stoffel, P.G. **Project Manager**



505 E Huntland Dr STE 250 Austin, TX 78752 F: 512 329 8750 **C**: 432 238 3003 LinkedIn | Twitter | Blog | TRCcompanies.com

Stoffel, Jared

From:	Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov></mike.bratcher@emnrd.nm.gov>
Sent:	Tuesday, February 21, 2023 9:37 AM
То:	Stoffel, Jared; Melanie Nolan; arsin.sahba@hfsinclair.com; jason.leik@hfsinclair.com; Cilbort, Bryon: Clark, Darija
Cc:	Gilbert, Bryan; Clark, Darija Nobui, Jennifer, EMNRD; Velez, Nelson, EMNRD
Subject:	RE: [EXTERNAL] WTX to EMSU Groundwater Sampling Notification (NOY1822241858)

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ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Correction to the incident number: NOY1822242858

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov> Sent: Monday, February 20, 2023 2:43 PM To: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov> Subject: FW: [EXTERNAL] WTX to EMSU Groundwater Sampling Notification (NOY1822241858)

fyi

From: Stoffel, Jared <JStoffel@trccompanies.com> Sent: Monday, February 20, 2023 1:42 PM To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov> Cc: Melanie Nolan <melanie.nolan@hollyenergy.com>; Sahba, Arsin <Arsin.Sahba@HFSinclair.com>; Leik, Jason <Jason.Leik@HFSinclair.com>; Gilbert, Bryan <BGilbert@trccompanies.com>; Clark, Darija <dclark@trccompanies.com> Subject: [EXTERNAL] WTX to EMSU Groundwater Sampling Notification (NOY1822241858)

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

Jennifer -

TRC, on the behalf of HEP, will be conducting the 1st quarter groundwater sampling event at the WTX to EMSU site (NOY1822241858) on February 22, 2023. We expect the event duration to be 1 day. Please let me know if you have any questions or concerns. Thank you.

Jared Stoffel, P.G. Project Manager



F: 512 329 8750 | C: 432 238 3003 LinkedIn | Twitter | Blog | TRCcompanies.com 505 E Huntland Dr STE 250 Austin, TX 78752

From:	Stoffel, Jared
To:	Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD; Buchanan, Michael, EMNRD
Cc:	<u>Leik, Jason; Sahba, Arsin M.; melanie.nolan; Gilbert, Bryan; Clark, Darija</u>
Subject:	FW: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)
Date:	Wednesday, November 1, 2023 12:36:00 PM
Attachments:	image001.png
	image004.png
	WTX to EMSU Easement Map 9.28.23.pdf

All,

I wanted to follow up on my previous email regarding the delay in the installation of an electrical power drop at the site. We have continued to work to resolve the Xcel easement with the Byrd property to the east. As of now, there is still no timeline for resolution of the Byrd easement. As we approach November 16, 2023, the target date for installation and activation of the remediation system, we wanted to meet with you to discuss our progress and options moving forward. Please let us know if you have time for a meeting over the next 2 weeks.

Thank you very much. Jared Stoffel, P.G.

Project Manager



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From: Stoffel, Jared <JStoffel@trccompanies.com>

Sent: Wednesday, October 4, 2023 12:17 PM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>

Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Clark, Darija <dclark@trccompanies.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Sahba, Arsin M.

<arsin.sahba@hollyfrontier.com>; Leik, Jason <Jason.Leik@HFSinclair.com>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

All,

As you are aware, HEP has experienced a delay in the installation of an electrical power drop at the site, which is required to facilitate operation of the planned bioventing remediation system. HEP does not have active power lines or facilities in the area, which is very remote. HEP has been working with Xcel Energy, the local provider, on the power drop. The nearest Xcel line for a power drop is over 0.5 mile to the east and will require that a new electrical line cross two properties to provide service to the site. Thus, Xcel must obtain easements with both property owners before construction of the electrical line can begin. The easement with the Kleins has been obtained, but Xcel is experiencing delays in the executing the easement with the Byrd property to the east of the site.

Once the easements are in place, the electrical infrastructure will be installed, but the Byrd easement is currently pending legal resolution. There is currently no timeline for resolution of the Byrd easement. For reference, a map of the intended easements from the nearest Xcel owned line to the WTX to EMSU Site and the referenced approximate property boundary is attached.

Given the electrical power drop delay, HEP is re-evaluating power options for the bioventing system. We intend to have a path forward for an alternative power source prior to the November 16, 2023, deadline if the power easement issues have not been resolved and will notify you of the path forward accordingly. If an alternative power source is selected and the property owner has provided approval, HEP will begin procurement and system installation. If the access agreement between Xcel and the Byrd estate is resolved prior to the deadline, we will notify you and move forward with installation of the power lines.

The third quarter 2023 groundwater monitoring event was conducted on September 14, 2023. Per recent voicemails left with Mr. Bratcher, 0.02 feet of apparent LNAPL was detected in well MW-1, located near the former release point. The LNAPL was confirmed with a bailer and did not recharge to the well within 5 hours of bailing. LNAPL has not previously been observed at the site to date. Groundwater levels at the site are at historical lows. It is likely that the presence of LNAPL in well MW-1 is associated with low groundwater levels and is not indicative of migrating LNAPL or a recent release (the pipeline is not active). Regardless, HEP will install a sorbent sock in well MW-1 during October 2023 to recover the accumulating LNAPL.

Please let us know if you have any questions, comments, or concerns – I am happy to facilitate a meeting to further discuss powering the system and/or the LNAPL. Thank you.

Jared Stoffel, P.G. Project Manager



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From: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>

Sent: Monday, August 21, 2023 9:15 AM

To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>; Hamlet, Robert, EMNRD

<<u>Robert.Hamlet@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>>; Buchanan, Michael, EMNRD <<u>Michael.Buchanan@emnrd.nm.gov</u>>

Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>;

Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Sahba, Arsin M.

<arsin.sahba@hollyfrontier.com>; Leik, Jason <Jason.Leik@HFSinclair.com>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Jared,

Your request for an extension is approved to November 16, 2023. OCD realizes and appreciates this is a relatively complex project, however, the release is now five years old and OCD requests steps be taken to either move the project along or propose an alternative remediation plan. Electrical hook-ups are made daily in the oil patch and rarely interfere with production needs. The same urgency should apply to this remedial project or an alternative such as solar be considered. Please advise once power connection activities have commenced.

Thank you,

Mike Bratcher ● Incident Supervisor Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave | Artesia, NM 88210 (575) 626-0857 | mike.bratcher@emnrd.nm.gov http://www.emnrd.nm.gov/ocd_



From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>
Sent: Friday, August 18, 2023 1:27 PM
To: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Hamlet, Robert, EMNRD
<<u>Robert.Hamlet@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>>
Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>;
Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Sahba, Arsin M.
<<u>arsin.sahba@hollyfrontier.com</u>>; Leik, Jason <<u>Jason.Leik@HFSinclair.com</u>>
Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal
Forms (NOY1822242858)

All,

We respectfully request a 90-day extension from today for installation and activation of the bioventing system (i.e., until November 16, 2023), as we are still working with an electrical service provider to run power to the Site. We have been told that construction of the power drop will begin in late-September and will take approximately 1 week to complete. Assuming this schedule holds, we anticipate activation of the system on or before November 16th. The wells have already been installed, so we anticipate the final system installation and activation promptly following completion of the power drop. Please let me know if you approve this extension request. I am available at your

convenience if you have questions or concerns. Thank you.

Jared Stoffel, P.G. Project Manager



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From: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>

Sent: Tuesday, April 18, 2023 3:46 PM

To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Cc: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Hamlet, Robert, EMNRD

<<u>Robert.Hamlet@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>> **Subject:** RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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Hello Jared

Your request for a 90-day extension has been approved to July 18, 2023. 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.

Please let us know if you have any questions.

Thanks, Jennifer Nobui

From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Sent: Monday, March 27, 2023 3:18 PM

To: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>

Cc: Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Pearson, Christopher <<u>CPearson@trccompanies.com</u>>; Leik, Jason <<u>Jason.Leik@HFSinclair.com</u>>; Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Velez, Nelson, EMNRD

<<u>Nelson.Velez@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Ms. Nobui,

In the October 12, 2022 Remediation and Bioventing Pilot Test Summary and Full-Scale Bioventing System Recommendation Report, which you approved on November 28, 2022, the schedule states that the full-scale bioventing system will be installed and activated within 120 days of NMOCD approval of the report (i.e., by March 28, 2023). We have had delays due to landowner concurrence and access, NMOSE permitting, subcontractor availability, and electrical service. We are requesting a 90-day extension for installation and activation of the bioventing system (i.e., until June 26, 2023). We have made significant progress with the landowner, NMOSE, and drilling subcontractor, and hope to resolve the remaining issues regarding electrical service in the immediate future to allow for activation of the system by this date.

Please let me know if you approve this extension request. I am available at your convenience if you have questions or concerns. Thank you very much!

Jared Stoffel, P.G. Project Manager



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From: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>

Sent: Tuesday, December 13, 2022 12:48 PM

To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Cc: Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Pearson, Christopher <<u>CPearson@trccompanies.com</u>>; Leik, Jason <<u>Jason.Leik@HFSinclair.com</u>>; Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Hello Jared

Your Remedial Plan for full scale implementation of the bioventing system has been approved. OCD approved it in the OCD portal on 11/28/22 with APP ID # 150523. But you can use this email as well for final approval. I will also make note of final approval of full scale bioventing system implementation in the Incident Events Notes. Please save this email and include it in the upcoming start up report. Let me know if you have any questions.

Thanks Jennifer Nobui

From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Sent: Tuesday, December 13, 2022 9:02 AM

To: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>

Cc: Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Pearson, Christopher <<u>CPearson@trccompanies.com</u>>; Leik, Jason <<u>Jason.Leik@HFSinclair.com</u>>; Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Understood and noted. Please let me know if there are any other questions, comments, or concerns – otherwise we look forward to hearing back regarding the approval of the full-scale system through the portal. Thank you very much!

Jared Stoffel, P.G. Project Manager



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From: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>

Sent: Monday, December 12, 2022 3:38 PM

To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Cc: Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Pearson, Christopher <<u>CPearson@trccompanies.com</u>>; Leik, Jason <<u>Jason.Leik@HFSinclair.com</u>>; Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Thank you Jared for the response below. One quick addition for item #7

7. The proposed bioventing wells should be considered 'remediation wells' and thus **do not** require a C-108 or Class V injection permit approval. **No additional action is required on behalf of HEP with respect to the C-108 or Class V injection permits**.

Please note that each well needs to be named (nomenclature) and tracked individually, each wells' data produced and operating time needs to be tracked and documented just in case EPA contacts you regarding these wells. Please make note of that correction.

Thanks, Jennifer Nobui

From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Sent: Monday, December 12, 2022 2:15 PM

To: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>

Cc: Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Pearson, Christopher <<u>CPearson@trccompanies.com</u>>; Leik, Jason <<u>Jason.Leik@HFSinclair.com</u>>; Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

All,

Thank you very much for meeting with us regarding the WTX to EMSU Remediation and Bioventing Pilot Test Summary and Full-Scale Bioventing System Recommendation Report submitted October 10, 2022. A brief summary of our meeting and path forward is provided below.

- 1. Soil boring SB-19A results showed no BTEX detected in soil above Closure Criteria. No further action with regards to SB-19A.
- 2. Remedial excavation was completed in accordance with the April 1, 2022 Work Plan Addendum that was approved by the OCD on April 5, 2022. Affected soil from surface to 4.5' bgs has been removed from the site.
- 3. Affected soil deeper than 4.5 feet bgs will be addressed during proposed full-scale bioventing.
- 4. HEP's interpretation of the bioventing pilot test results were supported by OCD as discussed

during the call, including:

- a. pressure propagation shows an effective injection ROI of up to 90 feet; and
- b. the effective injection ROI indicated by the pressure propagation was corroborated by the soil gas results, including oxygen, VOCs, and carbon dioxide.
- 5. HEP's proposed full-scale bioventing system design was generally consistent with OCD's expectations as discussed during the call.
- 6. OCD has requested that HEP conduct weekly operations and maintenance (O&M) of the bioventing system for 1 to 2 months following installation and start-up rather than 2-3 weeks proposed by HEP. HEP will evaluate the weekly O&M data after 1 month of operation and will use this data to determine if a second month of weekly O&M is appropriate.
- The proposed bioventing wells should be considered 'remediation wells' and thus **do not** require a C-108 or Class V injection permit approval. No additional action is required on behalf of HEP with respect to the C-108 or Class V injection permits.
- 8. OCD has requested that confirmation soil borings be proposed for OCD approval once bioventing system data indicate bioventing objectives have been achieved.

Based on our meeting, we anticipate a conditional approval of the October 12, 2022 Remediation and Bioventing Pilot Test Summary and Full-Scale Bioventing System Recommendation Report, thus an additional revision and submittal by HEP to the OCD will not be required. The primary change to the October 2022 report requested by OCD is the additional weekly system O&M following installation and startup (1-2 months rather than 2-3 weeks). HEP does not expect to receive a response or approval of the C-108/Class V permits provided in the October 12, 2022 Remediation and Bioventing Pilot Test Summary and Full-Scale Bioventing System Recommendation Report in order to enact the proposed full-scale bioventing remedy. Please let me know if I've missed or mischaracterized any of our items of discussion.

Again, thank you for taking the time to review the bioventing results and recommendations with us.

Jared Stoffel, P.G. Project Manager



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From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Thursday, December 1, 2022 3:44 PM
To: Stoffel, Jared <JStoffel@trccompanies.com>
Cc: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>; Bratcher, Michael, EMNRD
<mike.bratcher@emnrd.nm.gov>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Gilbert, Bryan
<BGilbert@trccompanies.com>; Pearson, Christopher <<u>CPearson@trccompanies.com</u>>; Leik, Jason
<Jason.Leik@HFSinclair.com>; Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>
Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal

Forms (NOY1822242858)

Hello Jared

We are available for a discussion December 6, 2022 Tuesday at 3pm MST. Please send us an evite.

Thanks Jennifer Nobui

From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Sent: Thursday, December 1, 2022 2:03 PM

To: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>

Cc: Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Pearson, Christopher <<u>CPearson@trccompanies.com</u>>; Leik, Jason <<u>Jason.Leik@HFSinclair.com</u>>; Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Jennifer –

Thank you for discussing the WTX to EMSU site with me yesterday. As we discussed, we have already completed the excavation, soil boring installation, and bioventing pilot test activities as approved by Chad Hensley on April 5, 2022. The most recently submitted report (submitted on October 12, 2022) documents the excavation, soil boring, and the results of the bioventing pilot test and provides recommendations for the full-scale bioventing system. I've attached the report for reference – I know there have been multiple submissions for this Site, and want to ensure that we both are referencing the same document.

In order to facilitate our additional discussion of what has occurred to date and answer any questions regarding the bioventing pilot test results, we would like to conduct a meeting with you and your team. Our team's availability (cc'd in this email) for this week and next week include:

December 2: any time of day December 5: After 4 MST December 6: After 3 MST December 7: After 2:30 MST December 9: After 2 MST

Would any of these days and times work for you? If so, I will set up a Teams meeting at your preferred time. Thank you very much!

Jared Stoffel, P.G. Project Manager



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From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Monday, November 28, 2022 11:12 AM
To: Stoffel, Jared <JStoffel@trccompanies.com>
Cc: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>; Bratcher, Michael, EMNRD
<mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal
Forms (NOY1822242858)

Hello Jared

I wanted to let you know that the Remediation Plan for the above-referenced site detailing a pilot test for bioventing has been approved with conditions. OCD has approved the proposed excavation activities and the advancement of a soil boring. In addition, OCD has approved the implementation of a pilot test for bioventing. However, please do not proceed with the full scale implementation of the bioventing system until OCD has had the opportunity to review the pilot test data to evaluate effectiveness of a full scale system. Please schedule a meeting with OCD after the pilot test has been completed so we can go over the data.

Also, at this time you are not required to submit a C-108 form or a EPA UDS Sheet. That will need to be addressed once full scale implementation is approved. Please let me know if you have any questions.

Thanks,

Jennifer Nobui, PG • Environmental Specialist A Environmental Bureau EMNRD - Oil Conservation Division 5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113 505.470-3407 | Jennifer.Nobui@state.nm.us http://www.emnrd.state.nm.us/OCD/ From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Sent: Thursday, October 13, 2022 11:24 AM

To: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>; Gilbert, Bryan

<<u>BGilbert@trccompanies.com</u>>; Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>

Cc: Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Jennifer,

I wanted to provide an update that the report documenting the pilot test and soil remediation activities along with the full-scale bioventing system recommendations has been submitted through the portal. Please let me know if you have any questions that arise during your review. Thank you very much!

Jared Stoffel, P.G. **Project Manager**



505 E Huntland Dr STE 250 Austin, TX 78752 **505 E Huntland Dr STE 250 Au** F: 512 329 8750 | C: 432 238 3003 LinkedIn | Twitter | Blog | TRCcompanies.com

From: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@state.nm.us</u>>

Sent: Tuesday, August 23, 2022 5:34 PM

To: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>; Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Cc: Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>; Hamlet, Robert, EMNRD

<<u>Robert.Hamlet@state.nm.us</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@state.nm.us</u>> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Thanks Gilbert 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.

Thanks, Jennifer Nobui

From: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>
Sent: Tuesday, August 23, 2022 4:31 PM
To: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@state.nm.us</u>>; Stoffel, Jared
<<u>JStoffel@trccompanies.com</u>>; Billings, Bradford, EMNRD <<u>Bradford.Billings@state.nm.us</u>>;
Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>
Cc: Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>;
Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>;
Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>;
Varnell, Richard <<u>RVarnell@trccompanies.com</u>>; Hamlet, Robert, EMNRD
<<u>Robert.Hamlet@state.nm.us</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@state.nm.us</u>>
Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Good Afternoon Jennifer,

Based on the initial confirmation soil sample analytical results for the excavation performed on August 17 and 18, additional remedial excavation and sampling will be conducted at the site on Thursday, August 25.

Please let me know if you have any questions or concerns.

Thanks!

Bryan Gilbert, P.G. Austin Office ECW Practice Leader

505 E. Huntland Drive, Suite 250, Austin, TX 78752 C: 925.699.6184 | F: 512.329.8750 LinkedIn | Twitter | Blog | TRCcompanies.com From: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@state.nm.us</u>> Sent: Wednesday, August 17, 2022 1:59 PM To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>; Billings, Bradford, EMNRD <<u>Bradford.Billings@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>> Cc: Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@state.nm.us</u>> Subject: RE: [EXTERNALLWITX to EMSU Remediation Plan Addendum, C-108, and Associated Feder

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Thank you Jared 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.

Please let us know if you encounter any delays or have any questions.

Thanks, Jennifer Nobui

From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Sent: Friday, August 12, 2022 12:49 PM

To: Billings, Bradford, EMNRD <<u>Bradford.Billings@state.nm.us</u>>; Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>> Cc: Sahba, Arsin <<u>Arsin.Sahba@HFSinclair.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>> Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858) All,

I would like to follow up on our notification of the pilot test, soil boring activities, remedial excavation activities, and quarterly groundwater sampling activities with an updated timeline. Field activities were projected to be completed by August 12. An updated timeline is provided below.

- Bioventing Pilot Test Field activities began on August 3, 2022, but the pilot test did not commence until August 9 (Day 1) due to equipment issues and troubleshooting. The pilot test is anticipated to be complete on August 15 (Day 7).
- Soil Boring Drilling was originally scheduled for August 8. Due to a change in drill rig availability (the drill rig scheduled for the work was not operational), drilling is now scheduled for August 15.
- Quarterly Groundwater Monitoring Due to the revised bioventing pilot test schedule (the monitoring wells cannot be gauged and sampled during the pilot test), quarterly groundwater monitoring activities are scheduled to begin August 16. This is a slight deviation from the schedule presented in the April 2022 Remediation Work Plan Addendum, which indicated quarterly groundwater monitoring would commence within 90 days of NMOCD approval of the Work Plan (i.e., August 13). Groundwater monitoring activities are expected to take 1 2 days.
- Remedial Excavation and Sampling Due to the revised bioventing pilot test and quarterly groundwater monitoring schedules, remedial excavation and sampling activities are scheduled for August 17 to 19.

Please let me know if you have any questions or concerns. Thank you.

Jared Stoffel, P.G. Project Manager



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From: Billings, Bradford, EMNRD <<u>Bradford.Billings@state.nm.us</u>>
Sent: Thursday, August 4, 2022 11:48 AM

To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Hi,

Thank you for notification. Please keep this communication and include in allied report(s).

Bradford Billings EMNRD/OCD

From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Sent: Monday, August 1, 2022 10:29 AM

To: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@state.nm.us</u>>; Billings, Bradford, EMNRD
<<u>Bradford.Billings@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>
Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>;
Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>;
Clark, Darija <<u>dclark@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover,
Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>;
Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

All,

I would like to submit a notification that the pilot test, soil boring activities, remedial excavation activities, and quarterly groundwater sampling activities are all scheduled to begin this week on August 3, 2022. The activities are projected to be completed within 2 weeks. This email is intended to notify you of both the remedial and monitoring activities occurring onsite and the collection of final samples from the remedial excavation during this time period in accordance with NMAC 19.15.29.12 D(1)(a). Please let me know if there are any questions or concerns. Thank you.

Jared Stoffel, P.G. Project Manager



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From: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>
Sent: Thursday, April 7, 2022 8:16 AM
To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>; Bratcher, Mike, EMNRD
<<u>mike.bratcher@state.nm.us</u>>
Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>;
Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>;
mark.shemaria <<u>mark.shemaria@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>;
Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>;

Varnell, Richard <RVarnell@trccompanies.com>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Jared,

Good morning. The approval is for UIC and the remediation.

Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Sent: Wednesday, April 6, 2022 3:42 PM

To: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>

Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>; Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; mark.shemaria <<u>mark.shemaria@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Chad,

We would like to clarify if this also includes the approval of the injection permits, or if that come separately from the Underground Injection group? Pending approval of the injection permits, as needed, we will proceed with field work following the completion of calving season as requested by the landowner. We will notify you when calving season has completed and the landowner has given us permission to access the property. Thank you very much for the approval to proceed and the additional clarification with regards to the injection permitting process.

Jared Stoffel, P.G. Project Manager



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From: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>
Sent: Tuesday, April 5, 2022 4:42 PM
To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>; Bratcher, Mike, EMNRD
<<u>mike.bratcher@state.nm.us</u>>
Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>;

Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>; mark.shemaria <<u>mark.shemaria@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>

Subject: RE: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

Jared,

The OCD approves this workplan. Please proceed with the project.

Cheers,

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>
Sent: Friday, April 1, 2022 2:59 PM
To: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>; Bratcher, Mike, EMNRD
<<u>mike.bratcher@state.nm.us</u>>
Cc: Gilbert, Bryan <<u>BGilbert@trccompanies.com</u>>; Sahba, Arsin M. <<u>arsin.sahba@hollyfrontier.com</u>>;
Melanie Nolan <<u>melanie.nolan@hollyenergy.com</u>>; Trevor.baird <<u>Trevor.baird@hollyenergy.com</u>>;

mark.shemaria <<u>mark.shemaria@hollyenergy.com</u>>; Clark, Darija <<u>dclark@trccompanies.com</u>>; Helbert, Dana <<u>DHelbert@trccompanies.com</u>>; Hoover, Shannon <<u>SHoover@trccompanies.com</u>>; Varnell, Richard <<u>RVarnell@trccompanies.com</u>>

Subject: [EXTERNAL] WTX to EMSU Remediation Plan Addendum, C-108, and Associated Federal Forms (NOY1822242858)

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

Mr. Hensley and Mr. Bratcher,

Please see the attached addendum to the NMOCD-approved November 12, 2021, *Site Characterization Report and Remediation Workplan* for the WTX to EMSU Battery to Byrd Pump Segment Crude Oil Release Site (NOY1822242858). Included in the appendices are the requested C-108 form and associated federal underground injection form. Please let us know if you require any additional information. Otherwise we will stand by for NMOCD's approval of the Remediation Workplan Addendum and the authorization to inject.

Thank you.

Jared Stoffel, P.G. Project Manager



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From:	Hamlet, Robert, EMNRD
To:	Stoffel, Jared
Cc:	<u>Gilbert, Bryan; Clark, Darija; Leik, Jason; Melanie Nolan; Bratcher, Michael, EMNRD; Buchanan, Michael, EMNRD;</u> Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject:	[EXTERNAL] WTX to EMSU 90-Day Extension Request - (NOY1822242858)
Date:	Monday, November 20, 2023 10:14:47 AM
Attachments:	image003.png

This is an **External** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

RE: Incident #**NOY1822242858**

Jared,

Your request for an extension to **February 14, 2023** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared <JStoffel@trccompanies.com>
Sent: Thursday, November 16, 2023 12:29 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Gilbert, Bryan <BGilbert@trccompanies.com>; Clark, Darija <dclark@trccompanies.com>; Leik, Jason <Jason.Leik@hollyfrontier.com>; Melanie Nolan <melanie.nolan@hollyenergy.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: [EXTERNAL] WTX to EMSU 90-Day Extension Request - (NOY1822242858)

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Mike-

Thank you for talking with me yesterday afternoon regarding our power issues out at the WTX to EMSU Site. I have attached the summary email I sent in early November 2023 for reference.

Since early November 2023, HEP has determined that the Xcel Energy easement from the east

across the Byrd property is unlikely to be resolved in a timely manner and we are pursuing other options. The energy provider, Xcel Energy, has identified a second line approximately twice as far away to the south, which may be an alternate route for the Xcel Energy easement and electrical power drop to the Site. HEP is working with Xcel to determine if this is a feasible option (it does appear that it may be at least partially on State Trust Lands, which slows the easement process) to provide electrical power to the Site by the end of the first quarter of 2024. If by mid-December 2023, Xcel and HEP have not established a definitive timeline for electrical power to the Site, HEP will approach the Site landowner (Kleins) about alternative methods of power – previously, the Kleins were not enthusiastic about a large footprint for remediation infrastructure and didn't like the idea of a propane tank on their property. We will inform NMOCD of the intended path forward during December 2023. HEP is committed to driving the remediation forward and have targeted system startup during the first quarter of 2024.

HEP respectfully requests a 90-day extension to February 14, 2023. We will continue to update you as we progress through the Xcel Energy electrical power drop or alternative power method. Thank you very much.

Jared Stoffel, P.G. Project Manager



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From:	Hamlet, Robert, EMNRD
To:	Gilbert, Bryan
Cc:	<u>Clark, Darija; Stoffel, Jared; Leik, Jason; Melanie Nolan; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD</u>
Subject:	[EXTERNAL] WTX to EMSU (NOY1822242858) - Bioventing System Update
Date:	Thursday, February 15, 2024 11:25:53 AM
Attachments:	image003.png

This is an **External** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Gilbert,

Please include Nelson Velez on any Lea County incidents. He will be the reviewer for this particular incident. Regards

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Gilbert, Bryan <BGilbert@trccompanies.com>
Sent: Wednesday, February 14, 2024 5:36 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD
<mike.bratcher@emnrd.nm.gov>

Cc: Clark, Darija <dclark@trccompanies.com>; Stoffel, Jared <JStoffel@trccompanies.com>; Leik, Jason <Jason.Leik@HollyEnergy.com>; Melanie Nolan <Melanie.Nolan@hollyenergy.com>
 Subject: [EXTERNAL] WTX to EMSU (NOY1822242858) - Bioventing System Update

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

RE: Incident **#NOY1822242858**

All,

We wanted to provide an update on the status of the bioventing system at the WTX to EMSU site. Xcel Energy was unable to procure an easement for an alternate route for a power drop for the proposed bioventing system. With the intention of complying with NMOCD's August 21, 2023, request that an alternative system power source be considered and per HEP's November 16, 2023, extension request, HEP has switched to a propane-powered system design. The overall operation and capability of the bioventing system will remain consistent with that proposed in the NMOCDapproved October 2022 Remediation and Bioventing Pilot Test Summary and Full-Scale Bioventing System Recommendation Report – only the power source for the compressor has changed. HEP has begun procuring the system equipment. Notably, several system components have been installed at the site, including the bioventing wells, propane tank pads, system shed, and additional system fencing. The air compressor has been ordered but has the longest lead time, now estimated by the manufacturer for delivery to the site in mid-April 2024. Upon delivery of the air compressor, the system is anticipated to be operational by the end of the following week.

We will continue to update you through the system installation process. In the meantime, please let us know if you have any questions.

Thank you,

Bryan Gilbert, P.G. Austin Office ECW Practice Leader



TRC 505 E. Huntland Drive, Suite 250, Austin, TX 78752 C: 925.699.6184 | F: 512.329.8750 LinkedIn | Twitter | Blog | TRCcompanies.com

ATTACHMENT B – GROUNDWATER SAMPLING FORMS

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- Contraction			C			and and		\rightarrow		
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1570	.S #+ 4	p on mu	.2.						
Time	Volume	Flowrate	DTW	PH	Jenp	Conductivity	ORP	DORGIL	Turb
1530	init.	300	38.77	7.39	18.98	4.09	74	1.15	omax
1533	.25.	200	39.18	7.35	19.00	4.06	75	. 44	OMAX
1576	5	P00	39.30	7.24	14.04	4.00	75	.93	omax
1559	.75	300	38.55	7.27	19.05		75-	. 97	OMAX
1542	1.0	300	39.60	7.25	19.05		75	1.02	6 max
1545	1.25	700	39.68	7.23	19.05		75	1.03	800
1555	Sam	11E MW	-2]						0
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Technician:

WATER AND PRODUCT LEVEL MONITORING FORM

P. Shin E. Schubert

Site #___

_ Job #/Task #: <u>WTX to EMSU</u>

Project Manager

·:-----

Date: 6/20/23

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		T		5 0.0	D	D		
		Time	Total Depth	Depth to Water	Depth to Product	Product Thickness	Time	
Well #	тос	Gauged	(feet)	(feet)	(feet)	(feet)	Sampled	Misc. Well Notes
MW-01		0650	48 22	37.32	_	_		
MW-02		0720	49.46	38.38 38.36 38.91	~	1		
MW-03		0710	49.58	38.56	1 1	-		
MW-04		0700	49.27	38.91	-	1		
MW-05		0130	49.9Z	38.92	~]		
BV-15			14.58	ъ.				
I			29.02					
D			40.01					
BV-2 S			12.58					
I			30.52					
D			39.67					
BV-3 5			14.08					
I			29.26					
D			42.09					
BV-4			39.72					
								ν.
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FIELD DATA COMPLETE			QA/QC	<u> </u>	COC	WELL	BOX CONE	DITION SHEETS
MANIFEST		DRUM I	NVENTOF	۲Y	TRAFFIC	CONTROL		

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					Sample	Sample Location MW -01				vater signs posted	
ن					D	ate	6/20/23		at well and s	torage tanks?	
					CI	ient	HEP				
					S	ite	WTX				
	Static Depth	n to Water (ft)		37	.25	Sample	Collection Time	1019			
	Total Purge	Volume (gal)				Pur	ge Method	1			
	Total D	Depth (ft)		48	. 55	Sam	ple Method	Submersible Pump			
	Screen Dep	oth Interval (ft)				Water Description		Cloudy, no odor			
	Pump Intak	e Depth (feet)		Center of wa	ter column	Sampli	ng Personnel	PS, ES			
Time (min)	Volume Purged (L)	Flow Rate mí Ľ/min)	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (u-siemens/cm) MS ± 3%	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) <10	
1004	Initial	250	37.41		7.67	28.32	4.04	-6	1.7z	0.0 over ro	
1007	0.25		37.43		7.54	26.56	4.30	39	3.30	0.0 11	
1010	0.50		37.43		7.48	25.09	4.40	48	5.45	0.0 ""	
1013	0.75	-	37.48		7.46	24.90	4.41	45	5.40	0.0 ***/	
	1.00	1	37.48		7.44	24.83	<u>4.4z</u>	44-	5.33	1000	
1016	1.00					1	1	1	1	1	
1016	1.00										
1016						· · · · ·					
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Page 103 of 232

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	Sa	ample Location	MW-02	-	Are non-potable water signs posted
		Date	6/20/.	23	at well and storage tanks?
		Client	HEP		
		Site	WTX		
Static Depth to Water (ft)	38.53	Sample	Collection Time	0903	
Total Purge Volume (gal)		Pu	rge Method		
Total Depth (ft)	49.34	Sar	nple Method	Submersible	Pump
Screen Depth Interval (ft)		Wate	er Description	Cloudy, M	o odor
Pump Intake Depth (feet)	Center of water colu	Mn Samp	ling Personnel	PS,ES	

Time (min)	Volume Purged (L)	Flow Rate	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (u-siemens/cm) m5 ± 3%	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) <10	
0851	Initial	250	38.87		7.62	22.58	4.65	152	2.14	0.0 over rang	ge
0854	0.25		38.91		7.55	21.45	4.66	123	2.1.19	6.0 ""	
0357	0.50		38.92		7.50	21.38	4.65	106	0.90	0.0 11	
0900	0.75		38.95		7.46	21.22	4.65	94	0.77	0.0 ~~//	
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Page 104 of 232

Initials PS

	Samp	ole Location	MW-03		Are non-potable water signs posted
		Date	6/20/23		at well and storage tanks?
- \$7 K(Client	HEP		
		Site	WTX		
Static Depth to Water (ft)	38.56	Sample	e Collection Time	0733	
Total Purge Volume (gal)		P	urge Method		
Total Depth (ft)	49.58	Sa	mple Method	Submersible	Pump
Screen Depth Interval (ft)		Wat	ter Description	Clardy, n	o ador, light brown
Pump Intake Depth (feet)	Center of writer colum	Sam	pling Personnel	PS, ÉS	

Time (min)	Volume Purged (L)	Flow Rate	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (u-siemens/cm) ± 3% <i>ஸ</i> ்	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) <10	
0721	Initial	250	39.27		8.61	22,42	3.54	201	2.45	0.0 over ran	ge
8724	0.25		39.19		8.33	22.20	3.56	204	2.18	0.0 11/1	
0727	0.50		39.15		8.06	21.97	3.59	207	2.04	0.0	
0730	0.75	· · · · · ·	39.15		7.87	21.70	3.64	205	1.85	0.0	
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Page 105 of 232

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		Sample Lo	ocation	MW-04		Are non-potable water signs posted
		Date)	6120/23		at well and storage tanks?
		Clien	t	HEP		
		Site		WTX		
Static Depth to Water (ft)	33,9	1	Sample C	Collection Time	0939	
Total Purge Volume (gal)			Purg	je Method	·	
Total Depth (ft)	49.27	4	Sam	ole Method	Submersible	Pump
Screen Depth Interval (ft)			Water	Description	Cloudy, n	o odor
Pump Intake Depth (feet)	Center of wat	ter column	Samplir	ng Personnel	PS, ÉS	

Time (min)	Volume Purged (L)	Flow Rate (H/min)	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (u-siemens/cm) mS ± 3%	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) <10	
0927	Initial	250	38.90		7.78	25.85	4.59	-35	1.24	0.0 over row	nge
0930			38.92		7.65	22.00	4.68	-25	0.48	575	1
09.33			38.94		7.56	21.73	4.68	- 74	0.31	605	1
0936			38.96		7.51	21.60	4.67	-75	0.28	420	1
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Page 106 of 232

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					DUP	
		Sample Loc	cation	MW-	15	Are non-potable water signs posted
		Date		6/20	123	at well and storage tanks?
i i r (Client		HEP		
		Site		WTX		
Static Depth to Water (ft)	38.92		Sample (Collection Time	081	2
Total Purge Volume (gal)			Purç	ge Method	•	
 Total Depth (ft)	49.92		Sam	ple Method	Submersible	Pump
Screen Depth Interval (ft)			Water	Description	Cloudy, no	ædor
Pump Intake Depth (feet)	Center of wate	er column	Sampli	ng Personnel	PS; ES	

Time (min)	Volume Purged (L)	Flow Rate (L/min)	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (u-siemens/cm) rs5 ± 3%	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) <10
0800	Initial	250	39.17		7.69	21.60	4.70	199	1.79	D.D over range
0203	0.25		39.22		7.62	21.37	4.72	197	1.43	0.0 11
0806	0.50		39.22		7.53	21.27	4.71	193	1.13	854
0809	0.75		39.23		7.49	21.32	4.71	183	0.94	528
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Page 107 of 232

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	Depth to Water (feet) 2 39.99 2 38.71 0 39.05 2 38.75 0 37,48	Depth to Product (feet)	Product Thickness (feet)	Time Sampled	Date: 9/14 Page of Misc. Well Notes tubing in a tubing in a tubing in a tubing in a build of a No geoduce	ell ell wz u
Tota uged (feet 923 50.0 136 495 942 50.2 954 49.4 002 48,0	Depth to Water (feet) 2 39.99 2 38.71 0 39.05 2 38.75 0 37,48	Depth to Product (feet)	Product Thickness (feet)	Time Sampled	Misc. Well Notes tubing in a tubing in a tubing in a tubing in a	ell ell w=u
Imme uged Deptil (feet 723 50,0 736 49,5 742 50,2 764 49,4 702 48,0	Water (feet) 2 39.99 2 38.71 0 39.05 2 38.75 0 37,48	Product (feet) 	Thickness (feet)	Sampled	tubing in a tubing in a tubing in a	
123 50.0 136 495 942 50,2 954 49,4 102 48,0	2 39.99 2 38.71 0 39.05 2 38.75 0 37,48	11	11(1	11000	tubing in a tubing in a tubing in a	
136 495 942 50,2 954 49,4 102 48,0	2 38.71 0 39.05 2 38.75 0 37,48		1 (1001			
942 50,2 954 49,4 102 48,0	0 39.05 2 38.75 0 37,48	37.46	(/02)			
102 48,0	0 37,48	37.46	0.02			
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	Site # WTX to EMSU Project Manager J. Staffel	Page of .

	TOC	Time Gauged	Total Depth (feet)	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Time Sampled	
MN-5		0923	50,02		-	1		tubing in .
MW-3		0936	4955	38.71	1	/		tubing in .
pw-4		0942		39.05	-	(tubing in . tubing in .
Mw-2		0954	49.42	38.75	-	/		
new-1		1002	48,00	37.48	37.46	0.02	11000-	briles o
MWDI		1457		37.47		-	-	No product
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3			-	-		Location	MW- GIUT	2/200-01	Are non-potable at well and	water signs post storage tanks?
4	-	TR		-		ient	HEP	21		
				-		ite		ELSU		
	Static Depth	to Water (ft)		387	5	Sample	Collection Time	1420		
		Volume (gal)		FT.	12	Puŋ	ge Method	but		and the second
	Total D	Depth (ft)	_	49,0	12	Sam	ple Method	low t	clo-	
	Screen Dep	oth Interval (ft)	In the second			Water	Description	Cloudy,	no oder	1
	Pump Intak	e Depth (feet)		45	Call Call	Sampli	ng Personnel	EP ?!	ting M.	Bryant
					100	1993			/	1
me (min)	Volume Purged (L)	Flow Rate (L/min)	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (u-siemens/cm) ± 3%	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs <10
-	2,5	460m4mi	39.25	0:05	6.72	21.36	3.92	55	7.56	0.0
0	4	100 mi	39.20	+0114	6.63	21.25	5.88	58	3.69	0.0
6	5.5		39.34	10.64	6.77	20.90	3.90	55	3.07	980
9	7		39.38	+0.01	6.74	20.79	3.89	60	2-72	662
12	45	V	39.39	0	6.71	20.75	3.89	63	2,32	36
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Page 110 of 232

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-	-		-		Sample	Location	mw-3 9/14/2	3	Are non-potable at well and s	water signs poste torage tanks?
1	7	IF		-		ent	HEP	- /		
				-			WTX to	Chest		
	-	-			5	ite Denseta (5211)0		
-	Static Depth			38.71			Collection Time	low t	A	
	- and the second	Volume (gal)		1195	5		e Method		flow	-
-		epth (ft)		49.5	/	and the second s	Description	low		nood
-		th Interval (ft)		.17		and the second s	ng Personnel	PN	the In	Brank
Contraction of the	Pump Intake	e Depth (feet)		42		Sampin	ig reisonner	Fr		- p. f. p
Time (min)	Volume Purged (L)	Flow Rate (L/min)	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (u-siemens/cm) ± 3%	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs <10
233 10	3	470 14	470 1/10	1,59	6,66	21.96	3.07~5/cm	110	3.00	889
3) 4,5		40.38	6,08	6.70	21.92	3.07 45/20	102	2.61	751
(6)	6		40.57	0,19	6.58	21.83	26,247 3.05	101 9.8	2.11	676
(9)			40.95	0.42	6,54	21.70	3.03	87	1.99	644
(12)	9	A/	41.28	0.33	6,66	21.71	7.07	01	1	
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18-1	3		-			1200	The Tat Man	C. Juni		Ser
			-		Contraction of the			the second second		

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-		_	-		Sample L		MW- 9/14/	1/23	Are non-potable w at well and st	orage tanks?
	P -				Clie		HEP	-)		
1	1	R			Si		wtxt	- EMSU		
-				34.	75		collection Time	133	7	
	Static Depth t			101	1.	Purg	e Method	low	6(0-	
	Total Purge			56.	20	Sam	ble Method	lew		
	Total De			10.	-	Water	Description	Claught in	odor	U. Burn
	Screen Dept	Depth (feet)		47	-	Sampli	ng Personnel	K. N	ency	e ci piya
-	Pump Intake	Deptil (leet)		16						
ine (min)	Volume	Flow Rate	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (u-siemens/cm) ± 3%	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTU: <10
ime (min)	Purged (L)	(L/min)				24.59	3.69	-41	1.57	605
(0)	3	470m-1m	38.09	0	6.74	24.04	3.71	-30	1.48	367
(3)	45		59.09		6.73	74.03	3.70	-26	1.40	342
(6)	6		39.09		6-69	23.94	3.68	-21	1.35	241
(9)	7.5	1	39.09		6,61	23.73	3.71	-16	1.34	
(12)	0	V	11.01	V		-		-		
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and the second second		Sample Location	MW-S		Are non-potable water signs posted
J TT		Date	9/14/2	3	at well and storage tanks?
() 12(Contraction of the second	Client	HEP		
		Site	WTX to	EMSU	
Static Depth to Water (ft)	39.48	Samp	le Collection Time	1200	
Total Purge Volume (gal)	3	F	urge Method	low f	200
Total Depth (ft)	50.02	Si	ample Method	low	Flow
Screen Depth Interval (ft)		Wa	Water Description		brown / Clear noob
Pump Intake Depth (feet)	42	San	pling Personnel		Nichay M. Brya

Time (min)	Volume Purged (L)	Flow Rate (L/min)	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (u-siemens/cm) ± 3%	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) <10
1142 (0) 1145 (3) 1148 (6) 1151 (9) 1154 (12) 1157 (15)	1 N2.5 4 5.5 7 8.5	400 m/min 400 m/min 400 m/min	39.48 39.46 39,48 39,48 39,49	+0.04 0.04 + 0.02 0.02 0.02 0.01 0.03	5.74 5.78 5.92 5.96 5.98 5.99	22,19 21,47 21,124 21,11 21,10 21,12	7.85 m5/cm 3.85 3.85 3.85 3.85 3.85 7.85	173 166 148 140 135 134	9.87 9.60 8.46 8.45 8.44 8.44 2.47	599 574 7575 566 561 560

Page 113 of 232

WATER AND PRODUCT LEVEL MONITORING FORM

Technician:

Robert Nidey adult's Ponegon Job #Task #:_____ Date: 12/13/23 Site # 10 to to Em SU Project Manager Jureb Staffel Page 1 of.

Well #	тос	Time Gauged	Total Depth (feet)	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-S		720	50.01	39.21 38.81 39.14 38.83 37.57	/		0850	
por - 3		730	49.98	38.81	/			
1 nu-4		740	50.05	39.14	in the second	1	1440	
MW-2		750	49.51	38.83		1	1540	
mw-1		800	/	37.57	37.56	0.01	/	
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the second second second			QAVQC		COC	WELL B	OX CONDI	TION SHEETS
NIFEST								
and and a sector	D	RUM INVE	NTORY	T	RAFFIC C	ONTROL		
	-		-	-	A-	the t		
		-	1	17	A	1 A	No. of Concession, name	

CTRC

	-	-			Sample	Location	nu	-	Are non-potable wa	
		Tr			De	ste	12/13 1	23	at well and sto	orage tanks?
					CI	ent	HEP			A STREET
	-		_		S	ite	KMSU	to with	-	
	Static Dept	h to Water (ft)		37.4	7	Sample (Collection Time	-	-	
	Total Purge	Volume (gal)				Purg	e Method	N/	1	
-	Total D	Depth (ft)				Samp	ple Method	101	~	
-	Screen Dep	oth Interval (ft)				Water	Description			
	Pump Intak	e Depth (feet)				Samplin	ng Personnel	P. Nie	in to h	& long
				6	2.01 LM	Aph			-	State of the
ime (min)	Volume Purged (L)	Flow Rate (L/min)	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (u-siemens/cm) ± 3%	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NT <10
						n in		-		
					1	N WD				-
					1 1	17K	1			
					NI	PUV	~			1.4
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						1	the second second	1	- Andrew	1

Initials_RV

Page S of S

-		-				Location	12/13/		Are non-potable at well and s	water signs poste torage tanks?
		Tr	2(1		ent	ILCIP	2,	-	
						ite	HEPENSU	to ALTX		
	Static Depth	to Water (ft)	1	28	\$3	Sample (Collection Time			
	Total Purge	Volume (gal)		1.7	5 83	Pur	ge Method	10-6	0 1	
	Total D	Depth (ft)	1	49.5		Sam	ple Method	low	Flow	
	Screen Dep	th Interval (ft)				Water	Description			
	Pump Intake	e Depth (feet)		42.	00	Sampli	ng Personnel	R. NI.	chy N.	Poweran
			ŀ	toriba	pour	L				
Time (min)	Volume Purged (L)	Flow Rate (L/min)	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (u-siemens/cm) ± 3%	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) <10
15	7							-		
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RU Initials

4 5 Page

	-				Sample	Location	pu.	- 3	Are non-potable w	rater signs posted
					Da	ite	12/13	123	at well and storage tanks?	
1		Tr		_	Cli	ent	HEP			
1	-	-	-		S	te	ENSU	tute		
	Static Depth	to Water (ft)		3.8	181_	Sample C	Collection Time	0940		
	Total Purge	Volume (gal)			- many of	Purg	e Method	lov t	lew	
	Total D	Depth (ft)		49.9	98	Samp	ple Method	low .	low	
	Screen Dep	oth Interval (ft)				Water	Description		chang P	tint
	Pump Intak	e Depth (feet)	1 march	43.0	90	Sempli	Personnal	RAN :.	e hay N	. Pongan
		3				-				
Time (min)	Volume Purged (L)	Flow Rate (L/min)	Depth to Water (ft)	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity (ta-siemens/cm)	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTUs) <10
0	0	035	39.32	-*	6.02	17.22	3.20	139	1.43	1000+
3	ī	1	39.25		6.01	18.58	3.16	-108	0.72	(000+
6	2		79,77		6.01	18.62	= 3.16	85	0.45	1000+
9	3	V	39.36		6.03	18,80	3.17	68	0.15	924
12							19	-		
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RIN Initials

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Received by OCD: 4/29/2024 3:13:33 PM

	_				Sample	Location	m	4	Are non-potable w at well and str	
					Da	ite	12/13/	23	at well and st	orage canks r
	_		SC		Cli	ent	12/13/ HEP			
-					S	ite	Emsu to	, wpc		
- 14	Static Depth	to Water (ft)		39.14		Sample C	Collection Time		-	-
	Total Purge	Volume (gal)		39.14	Kappan	Purg	e Method	lo-		
	Total D	Papth (ft)		50,29	\$	Samp	ple Method	low	flow	
	Screen Dep	th Interval (ft)					Description	gleng	/ light	bra-r
	Pump Intake	e Depth (feet)	-	45.00		Sampli	ng Personnel	K.P.	ery p.	101022
Time (min)	Volume	Flow Rate	Depth to	Drawdown (ft)	pH (SU) ± 10%	Temp (C) ± 10%	Conductivity -(u-siemens/cm)	ORP (mV) ± 10%	Dissolved Oxygen (mg/L) ± 10%	Turbidity (NTU
	Purged (L)	(L/min)	Water (ft)		6,15	13,15	n ± 3% 3,95	-43	0.52	1000+
0	0	0.45	39,13	1	0,13	1011)	2, 11		1 and the second	1
3	1.5		HA	1:62	Dei	IN			1	
6 9	3		110-		pe					
	4.5	A							-	-
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15	115						-		-	-
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Page 118 of 232

Initials_KU

Page____of

		T	Dr			Location	12/13 HEEP	123	Are non-potable of all well and o	water alges post Aonago Lanks?
	/	Tr				ient	HEP	1 21		
	and the second	to Water (ft)	39,21		8	Rende	EM-SU Collection Time	and states and the state of	\$ 50	
		Volume (get)	1,15			and have been a second of	ge Mathod	1 10	Clow	
-	and the second s	and the second	10.01		The Relation	the sub-the second second	ple Method	1 1000.	Elow - blown - blown	
di harrow		lh Interval (ft)					Description	cle.	- blown	tint.
	Pump Intake	e Depth (feol)	45.00	1		Sampl	ing Personnel	LR. M.	el P	foregu
Taxe (min)	Volume Purgred (L)	Flow Rate (L/min)	Depth to Water (ft)	Drewdown (fil)	pH (SU) ± 10%	Temp-(C) ± 10%	Conductivity (weiernensign)	059P (mV) ± 10%	Dissolved Chygen (mg/L) ± 10%	
0	0	0.42	39.31	Carlo -	\$.37	17.24	3.95	222	3.54	1000+
3	1.5		39,36		5.67	18.32	3.93	184	2,24	10007
6	3		39.38	and the second sec	5.69	18.71	3.92	130	1.39	\$19
9	4.5	V	39.32		5.76	1.0100		122	11.21	
12							1			
19										
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	-							1		
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			1	1000 million					1	ł

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Page 1 of 5

ATTACHMENT C – LABORATORY ANALYTICAL REPORTS



10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887

August 17, 2023

Dana Helbert TRC Corporation 505 East Huntland Drive Suite 250 Austin, TX 78752

Work Order: HS23021285

Laboratory Results for: HEP WTX to EMSU

Dear Dana Helbert,

ALS Environmental received 8 sample(s) on Feb 25, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

march

Generated By: ANDREW.NEIR Andy C. Neir

ALS Houston, US

Date: 17-Aug-23

SAMPLE SUMMARY

Client:TRC CorporationProject:HEP WTX to EMSUWork Order:HS23021285

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23021285-01	MW-1	Groundwater		23-Feb-2023 09:05	25-Feb-2023 10:55	
HS23021285-02	MW-2	Groundwater		22-Feb-2023 16:00	25-Feb-2023 10:55	
HS23021285-03	MW-3	Groundwater		22-Feb-2023 13:40	25-Feb-2023 10:55	
HS23021285-04	MW-4	Groundwater		22-Feb-2023 12:55	25-Feb-2023 10:55	
HS23021285-05	MW-5	Groundwater		22-Feb-2023 15:05	25-Feb-2023 10:55	
HS23021285-06	EB-1-2-23-23	Water		23-Feb-2023 09:30	25-Feb-2023 10:55	
HS23021285-07	Duplicate-1	Groundwater		23-Feb-2023 00:00	25-Feb-2023 10:55	
HS23021285-08	Trip Blank	Water	cg-120922- 225	22-Feb-2023 00:00	25-Feb-2023 10:55	~

Released to Imaging: 6/11/2024 2:07:46 PM

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Client:TRC CorporationProject:HEP WTX to EMSUWork Order:HS23021285

GC Semivolatiles by Method SW8015M

Batch ID: 190217

Sample ID: HS23021250-53MS

• MS and MSD are for an unrelated sample

GC Volatiles by Method SW8015

Batch ID: R428884

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Page 123 of 232

CASE NARRATIVE

ND

0.11

0.22 n

Method:SW8015M

81.2

97.1

Date: 17-Aug-23

27-Feb-2023 10:51

27-Feb-2023 10:51

28-Feb-2023 18:57

28-Feb-2023 18:57

28-Feb-2023 18:57

Analyst: SAM

1

1

1

1

1

Prep:SW3511 / 28-Feb-2023

mg/L

%REC

mg/L

mg/L

%REC

ALS Houston, US

SW8015C

Gasoline Range Organics

TPH (Diesel Range)

Surr: 2-Fluorobiphenyl

TPH (Oil Range)

Surr: 4-Bromofluorobenzene

TPH DRO/ORO BY SW8015C

Client:	TRC Corporation			ANALYTIC	CAL REPORT
Project:	HEP WTX to EMSU	WorkOrder:HS23021285			
Sample ID:	MW-1	Lab ID:HS23021285-01			
Collection Date:	23-Feb-2023 09:05		N	latrix:Groun	dwater
ANALYSES	RESULT QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORG	GANICS BY Method:SW8015				Analyst: PJM

0.0500

70-123

0.049

0.098

60-135

ND

0.064

ND n

Method:SW8015M

79.2

105

Date: 17-Aug-23

27-Feb-2023 11:05

27-Feb-2023 11:05

28-Feb-2023 19:27

28-Feb-2023 19:27

28-Feb-2023 19:27

Analyst: SAM

ALS Houston, US

SW8015C

Gasoline Range Organics

TPH (Diesel Range)

Surr: 2-Fluorobiphenyl

TPH (Oil Range)

Surr: 4-Bromofluorobenzene

TPH DRO/ORO BY SW8015C

Sample ID: Collection Date:	MW-2 22-Feb-2023 16:00			ab ID:HS230 /latrix:Groun	
	22-Feb-2023 10.00				
ANALYSES	RESULT QUAL	REPORT LIMIT	UNITS	FACTOR	ANALYZED

0.0500

70-123

0.051

0.10

60-135

mg/L

%REC

mg/L

mg/L

%REC

1

1

1

1

1

Prep:SW3511 / 28-Feb-2023

Note: See Qualifiers Page for a list of qualifiers and their explanation	on.

ALS Houston, US

Date: 17-Aug-23

-						
Client:	TRC Corporation	on ANALYTICAL REPORT			ICAL REPORT	
Project:	HEP WTX to E	MSU	WorkOrder:HS23021285			
Sample ID:	MW-3		Lab ID:HS23021285-03			
Collection Date:	22-Feb-2023 1	3:40	Matrix:Groundwater			
ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORG SW8015C	ANICS BY	Method:SW8015				Analyst: PJM
Gasoline Range Organics	ND		0.0500	ma/l	1	27-Feb-2023 11.19

Gasoline Range Organics	ND	0.0500	IIIg/L	I	27-Feb-2023 11.19
Surr: 4-Bromofluorobenzene	83.5	70-123	%REC	1	27-Feb-2023 11:19
TPH DRO/ORO BY SW8015C	Method:SW8015M		Prep:SW3511 /	28-Feb-2023	Analyst: SAM
TPH (Diesel Range)	0.079	0.055	mg/L	1	28-Feb-2023 19:56
TPH (Oil Range)	0.31 _n	0.11	mg/L	1	28-Feb-2023 19:56
Surr: 2-Fluorobiphenyl	89.9	60-135	%REC	1	28-Feb-2023 19:56

ALS Houston, US

Date: 17-Aug-23

Client:	TRC Corporation	ANALYTICAL REPORT			
Project:	HEP WTX to EMSU	WorkOrder:HS23021285			
Sample ID:	MW-4	Lab ID:HS23021285-04			
Collection Date:	22-Feb-2023 12:55		Matrix:Groundwater		
ANALYSES	RESULT QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORG SW8015C	GANICS BY Method:SW8015				Analyst: PJM

SW8015C				•
Gasoline Range Organics	ND	0.0500	mg/L 1	27-Feb-2023 11:32
Surr: 4-Bromofluorobenzene	79.0	70-123	%REC 1	27-Feb-2023 11:32
TPH DRO/ORO BY SW8015C	Method:SW8015M		Prep:SW3511 / 28-Feb-202	Analyst: SAM
TPH (Diesel Range)	ND	0.049	mg/L 1	28-Feb-2023 20:26
TPH (Oil Range)	ND n	0.099	mg/L 1	28-Feb-2023 20:26
Surr: 2-Fluorobiphenyl	92.6	60-135	%REC 1	28-Feb-2023 20:26

ND

ND

ND

n

Method:SW8015M

83.5

87.8

ALS Houston, US

SW8015C

Gasoline Range Organics

TPH (Diesel Range)

Surr: 2-Fluorobiphenyl

TPH (Oil Range)

Surr: 4-Bromofluorobenzene

TPH DRO/ORO BY SW8015C

Date: 17-Aug-23

27-Feb-2023 11:46

27-Feb-2023 11:46

28-Feb-2023 20:55

28-Feb-2023 20:55

28-Feb-2023 20:55

Analyst: SAM

1

1

1

1

1

Prep:SW3511 / 28-Feb-2023

mg/L

mg/L

mg/L

%REC

%REC

Client:	TRC Corporation	ANALYTICAL RE			CAL REPORT
Project:	HEP WTX to EMSU	WorkOrder:HS23021285			
Sample ID:	MW-5	Lab ID:HS23021285-05			
Collection Date:	22-Feb-2023 15:05	Matrix:Groundwater			
ANALYSES	RESULT QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORG	GANICS BY Method:SW8015				Analyst: PJM

0.0500

70-123

0.052

0.10

60-135

Date: 17-Aug-23

ALS Houston, US

Client:	TRC Corporation	ANALYTICAL REPO	RT
Project:	HEP WTX to EMSU	WorkOrder:HS23021285	
Sample ID:	EB-1-2-23-23	Lab ID:HS23021285-06	
Collection Date:	23-Feb-2023 09:30	Matrix:Water	
		DILUTION DATE	

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	FACTOR	ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: PJM
Gasoline Range Organics	ND		0.0500	mg/L	1	27-Feb-2023 10:37
Surr: 4-Bromofluorobenzene	82.7		70-123	%REC	1	27-Feb-2023 10:37
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	28-Feb-2023	Analyst: SAM
TPH (Diesel Range)	0.078		0.051	mg/L	1	28-Feb-2023 21:24
TPH (Oil Range)	ND	n	0.10	mg/L	1	28-Feb-2023 21:24
Surr: 2-Fluorobiphenyl	77.1		60-135	%REC	1	28-Feb-2023 21:24

Date: 17-Aug-23

ALS Houston, US Client: TRC Corporation

		REPORT DILUTION DA	TE
Collection Date:	23-Feb-2023 00:00	Matrix:Groundwater	
Sample ID:	Duplicate-1	Lab ID:HS23021285	-07
Project:	HEP WTX to EMSU	WorkOrder:HS23021285	
Client:	TRC Corporation	ANALYTICAL RE	PORT

ANALYSES	RESULT	QUAL	LIMIT	UNITS	FACTOR	ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: PJM
Gasoline Range Organics	ND		0.0500	mg/L	1	27-Feb-2023 12:00
Surr: 4-Bromofluorobenzene	81.9		70-123	%REC	1	27-Feb-2023 12:00
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	28-Feb-2023	Analyst: SAM
TPH (Diesel Range)	ND		0.051	mg/L	1	28-Feb-2023 21:54
TPH (Oil Range)	ND	n	0.10	mg/L	1	28-Feb-2023 21:54
Surr: 2-Fluorobiphenyl	101		60-135	%REC	1	28-Feb-2023 21:54

Weight / Prep Log

Client:TRC CorporationProject:HEP WTX to EMSUWorkOrder:HS23021285

Batch ID: 190217		Start Dat	Start Date: 28 Feb 2023 12:00		End Date: 28 Feb 2023 12:00
Method: SW3511					Prep Code: 3511_DRO
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23021285-01		33.55 (mL)	2 (mL)	0.05961	40 mL Amber
HS23021285-02		32.42 (mL)	2 (mL)	0.06169	40 mL Amber
HS23021285-03		30.17 (mL)	2 (mL)	0.06629	40 mL Amber
HS23021285-04		33.46 (mL)	2 (mL)	0.05977	40 mL Amber
HS23021285-05		31.74 (mL)	2 (mL)	0.06301	40 mL Amber
HS23021285-06		32.51 (mL)	2 (mL)	0.06152	40 mL Amber
HS23021285-07		32.63 (mL)	2 (mL)	0.06129	40 mL Amber

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Date: 17-Aug-23

ALS	Houston,	US
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Client: Project: WorkOrder:	TRC Corporation HEP WTX to EMSU HS23021285				DATES RE	PORT
Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 190217	(0) Test Name :	TPH DRO/ORO BY SW	8015C		Matrix: Water	
HS23021285-06	EB-1-2-23-23	23 Feb 2023 09:30		28 Feb 2023 12:00	28 Feb 2023 21:24	1
Batch ID: 190217	(0) Test Name :	TPH DRO/ORO BY SW	8015C		Matrix: Groundwa	ater
HS23021285-01	MW-1	23 Feb 2023 09:05		28 Feb 2023 12:00	28 Feb 2023 18:57	1
HS23021285-02	MW-2	22 Feb 2023 16:00		28 Feb 2023 12:00	28 Feb 2023 19:27	1
HS23021285-03	MW-3	22 Feb 2023 13:40		28 Feb 2023 12:00	28 Feb 2023 19:56	1
HS23021285-04	MW-4	22 Feb 2023 12:55		28 Feb 2023 12:00	28 Feb 2023 20:26	1
HS23021285-05	MW-5	22 Feb 2023 15:05		28 Feb 2023 12:00	28 Feb 2023 20:55	1
HS23021285-07	Duplicate-1	23 Feb 2023 00:00		28 Feb 2023 12:00	28 Feb 2023 21:54	1
Batch ID: R42888	34 (0) Test Name : 0	GASOLINE RANGE OR	GANICS BY SW80150	C	Matrix: Water	
HS23021285-06	EB-1-2-23-23	23 Feb 2023 09:30			27 Feb 2023 10:37	1
Batch ID: R42888	34 (0) Test Name : (GASOLINE RANGE OR	GANICS BY SW80150	C	Matrix: Groundwa	ater
HS23021285-01	MW-1	23 Feb 2023 09:05			27 Feb 2023 10:51	1
HS23021285-02	MW-2	22 Feb 2023 16:00			27 Feb 2023 11:05	1
HS23021285-03	MW-3	22 Feb 2023 13:40			27 Feb 2023 11:19	1
HS23021285-04	MW-4	22 Feb 2023 12:55			27 Feb 2023 11:32	1
HS23021285-05	MW-5	22 Feb 2023 15:05			27 Feb 2023 11:46	1
HS23021285-07	Duplicate-1	23 Feb 2023 00:00			27 Feb 2023 12:00	1

ALS Houston, US

Client:	TRC Corporation
Project:	HEP WTX to EMSU
WorkOrder:	HS23021285

Date: 17-Aug-23

QC BATCH REPORT

Batch ID: 190217 (0))	In	strument:	FID-16	M	ethod: 1	PH DRO/OF	RO BY SW80	15C	
MBLK Sa	ample ID:	MBLK-190217		Units:	mg/L	Ana	alysis Date:	28-Feb-2023	13:04	
Client ID:			Run ID: FID-	16_429077	SeqNo: 7	151709	PrepDate:	28-Feb-2023	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit (Qual
TPH (Diesel Range)		ND	0.050							
TPH (Oil Range)		ND	0.10							
Surr: 2-Fluorobiphenyl		0.044	0.0050	0.06	0	73.3	60 - 135			
LCS Sa	ample ID:	LCS-190217		Units:	mg/L	Ana	alysis Date:	28-Feb-2023	13:33	
Client ID:			Run ID: FID-	16_429077	SeqNo: 7	151710	PrepDate:	28-Feb-2023	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit (Qual
TPH (Diesel Range)		0.5805	0.050	0.6	0	96.7	70 - 130			
TPH (Oil Range)		0.6054	0.10	0.6	0	101	70 - 130			
Surr: 2-Fluorobiphenyl		0.04594	0.0050	0.06	0	76.6	60 - 135			
MS Sa	ample ID:	HS23021250-53I	MS	Units:	mg/L	Ana	alysis Date:	28-Feb-2023	15:02	
Client ID:			Run ID: FID-	16_429077	SeqNo: 7	151713	PrepDate:	28-Feb-2023	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit (Qual
TPH (Diesel Range)		1.238	0.052	0.6238	0.1448	175	70 - 130			
TPH (Oil Range)		1.967	0.10	0.6238	0.9192	168	70 - 130			:
Surr: 2-Fluorobiphenyl		0.0869	0.0052	0.06238	0	139	60 - 135			:
MSD Sa	ample ID:	HS23021250-53I	MSD	Units:	mg/L	Ana	alysis Date:	28-Feb-2023	15:31	
Client ID:			Run ID: FID-	16_429077	SeqNo: 7	151714	PrepDate:	28-Feb-2023	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit (Qual
TPH (Diesel Range)		1.343	0.052	0.6286	0.1448	191	70 - 130	1.238	8.15 20	
TPH (Oil Range)		2.337	0.10	0.6286	0.9192	226	70 - 130	1.967	17.2 20	
Surr: 2-Fluorobiphenyl		0.08102	0.0052	0.06286	0	129	60 - 135	0.0869	7 20	
,										_

 The following samples were analyzed in this batch:
 HS23021285-01
 HS23021285-02
 HS23021285-03
 HS23021285-04

 HS23021285-05
 HS23021285-06
 HS23021285-07
 HS23021285-07

Date: 17-Aug-23

QC BATCH REPORT

ALS Houston, US

Client:	TRC Corporation
Project:	HEP WTX to EMSU
WorkOrder:	HS23021285

Batch ID: R428884 (0)	Inst	rument: F	ID-20	Me	annou.	GASOLINE F SW8015C	RANGE ORG	ANICS BY
MBLK Sample ID:	MBLK-230227		Units:	mg/L	Ana	alysis Date:	27-Feb-2023	10:23
Client ID:	Ru	un ID: FID-20	_428884	SeqNo: 7	147327	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline Range Organics	ND	0.0500						
Surr: 4-Bromofluorobenzene	0.08233	0.00500	0.1	0	82.3	70 - 121		
LCS Sample ID:	LCS-230227		Units:	mg/L	Ana	alysis Date:	27-Feb-2023	09:42
Client ID:	Ru	un ID: FID-20	_428884	SeqNo: 7	147325	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline Range Organics	0.9104	0.0500	1	0	91.0	76 - 124		
Surr: 4-Bromofluorobenzene	0.08141	0.00500	0.1	0	81.4	52 - 138		
LCSD Sample ID:	LCSD-230227		Units:	mg/L	Ana	alysis Date:	27-Feb-2023	09:56
Client ID:	Ru	un ID: FID-20	_428884	SeqNo: 7	147326	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline Range Organics	0.9287	0.0500	1	0	92.9	76 - 124	0.9104	1.98 20
Surr: 4-Bromofluorobenzene	0.08126	0.00500	0.1	0	81.3	52 - 138	0.08141	0.189 20
MS Sample ID:	HS23021250-53MS	5	Units:	mg/L	Ana	alysis Date:	27-Feb-2023	12:55
Client ID:	Ru	un ID: FID-20	_428884	SeqNo: 7	147337	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline Range Organics	0.9118	0.0500	1	0	91.2	70 - 130		
Surr: 4-Bromofluorobenzene	0.08341	0.00500	0.1	0	83.4	70 - 123		
MSD Sample ID:	HS23021250-53MS	D	Units:	mg/L	Ana	alysis Date:	27-Feb-2023	13:09
Client ID:	Ru	un ID: FID-20	_428884	SeqNo: 7	147338	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline Range Organics	0.9161	0.0500	1	0	91.6	70 - 130	0.9118	0.465 20

ALS Houston, US

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Date: 17-Aug-23

Client: Project:	TRC Corporation HEP WTX to EMSU	QUALIFIERS, ACRONYMS, UNITS
WorkOrder:	HS23021285	Action mile, chine
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the Reporting Limit	
E	Value above quantitation range	
н	Analyzed outside of Holding Time	
J	Analyte detected below quantitation limit	
М	Manually integrated, see raw data for justification	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL/SDL	
Acronym	Description	
DCS	Detectability Check Study	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitaion Limit	
SD	Serial Dilution	
SDL	Sample Detection Limit	
TRRP	Texas Risk Reduction Program	
Unit Reported		
mg/L	Milligrams per Liter	

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ALS Houston, US

Date: 17-Aug-23

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

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Vork Order ID: :lient Name:	HS23021285 TRC-AUS			Time Received: ived by:	Sample Receipt Checklis 25-Feb-2023 10:55 Corey Grandits
Completed By	: <u>/S/ Corey Grandits</u> eSignature	25-Feb-2023 11:26 Date/Time	Reviewed by: /S/	<i>Andy C. Neir</i> eSignature	27-Feb-2023 12:12 Date/Time
Matrices:	<u>w</u>		Carrier name:	<u>FedEx</u>	
Custody seals i Custody seals i VOA/TX1005/T Chain of custod Chain of custod Samplers name Chain of custod Samples in prop Sample contain Sufficient samp All samples rec Container/Temp	dy signed when relinquished an e present on COC? dy agrees with sample labels? per container/bottle? ners intact? de volume for indicated test? reived within holding time? p Blank temperature in complia	ealed vials? nd received?	Yes Yes Yes Yes Yes Yes Yes Yes	No No No No No No No No No No	Not Present Not Present Not Present Not Present 1 Page(s) COC IDs:284150
Cooler(s)/Kit(s))/Thermometer(s): : ple(s) sent to storage:		1.9UC/1.4C 48375 2/25/23		IR31
Water - VOA via Water - pH acco pH adjusted? pH adjusted by:	als have zero headspace? eptable upon receipt?		Yes 🔽 Yes 🔽 Yes 📘	No No No No No	No VOA vials submitted
Login Notes: Client Contacte	Trip Blank received, not listed	Date Contacted:		Person Co	ntacted:
Contacted By:		Regarding:			
Comments:					
Corrective Actic	on:				

ved by OCD: 4/2		ncinnati, OH 513 733 5336	Fort Collins, CO +1 970 490 1511	Chain of Custody i	Form	Houston, TX +1 281 530 5656	Spring City, PA +1 610 948 4903	Page 138 South Charleston, WV +1 204 356 3168
<u>j</u>		erett, WA 425 356 2600	Holland, MI +1 616 399 6070	Page of		Middletown, PA +1 717 944 5541	Salt Lake City, UT	York, PA
(4	ALS)			COC ID: 2841	50	+17+7 544 5541	÷1 801 266 7700	+1 712 505 5280
	· · · · · · · · · · · · · · · · · · ·			ALS Project Manage		ALS	Work Order #:	······
·····	Customer Information			Project Information		Parameter/Me	thod Request for A	nalysis
Purchase Order	C525769		Project Name	HEP WIX to EMSU	A' 80	015_GRO_W_(8015_G	R O}- [5:XVOA HOI]	
Work Order			Project Number	<u>C525769</u>				Am Nepti
Company Name	TRC Corporation		Bill To Company	TRC Corporation	C	·····		
Send Report To	Dana Holbert		Invoice Attn	TRC-AP	D :			•••••
	305 East Huntland Drive			505 East Huntland Drive	 Е !		3021285	
Address	Suite 250	:	Address	Suite 250	F	TRC	Corporation	
City/State/Zip	Ausan 3X 78752		City/State/Zip	Austra i X 78762	G	TEP V I FILII FILII FILII FILII	/TX to EMSU	8 8 1 1 1 1 1 1 1 1
Phone	(512) 329-6080		Phone	(512) 329-6030	.:			
Fax	(512) 329-8750		Fax	(512) 329-8750				
e-Mail Address	DHelbert@trocompanies.r	con	e-Mail Address	apinvoiceapproval@tracompanies.co	an J:		····· · · · · · · · · · · · · · · · ·	
ło.	Sample Description		Date Ti	nie Matrix Pres. #Bottle;	s A	8 C D E	FGH	biof-l L
1 Inw-1 2 Mw-2 3 Mw-3 4 Mw-4 5 Mw-5 6 EB-1-2 7 Dyplice 8 9	zk-(2 2 2 2 2 2	123/23 040 -122/23 160 122/23 134 122/23 125 122/23 125 122/23 150 123/23 09 123/23 09	10 10 55 55 50 80 WATER	$\begin{array}{c} \times \\ \times $			
Sampler(s) Please Pi	r 1 1		Shipment Metho	• • • • • • • • • • • • • • • • • • • •		f		e Date:
Relinguisted by:	an Paler	201/2 Time	S 45 m. Receive		5 We Dags Notes:	HEP WIX to EMSU	A subject	
Relinquished by:	Date:	Time	e: Receive	(4 2.25.25 (055	Cooler II		ackage: (Check One Box	Below)
Logged by (Laboratory)	: Date:	Time	c: Checke	głóy (Laboratory):	4/227) [[]	 Lovel Rickey Let Looke W. Let Colling State 	1970 The second se

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental,
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse,
 3. The Chain of Custody is a lead document. All information must be completed accurately.

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#3026464 02/24 581J1/6802/FE20

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Analytical Data Review Checklist

Site: WTX (Klein Ranch)	Laboratory: ALS (Houston, TX)	
Location: Southwest of Monument, NM	Lab Report #: HS23021285	
Client Name: HEP	Reviewer: A. Eljuri	
Project #: 525769	Peer Reviewer: L. Denly	
	Review Date: 8/17/2023	ļ

Analytical Method(s): M	Matrices Sampled:	Sample Collection Date(s):
TPH GRO by Method SW8015C; TPH DRO/ORO by Method SW8015M	Groundwater, aqueous quality control (QC) ample	February 22 and 23, 2023

Sampling Objective(s):

Analyze groundwater for routine monitoring.

Sample IDs (List IDs or attach COC):

Refer to data package sample summary.

Revie	ew Item or Question	Υ	Ν	NA	Comments
Chain-	of-Custody and Data Completeness			•	
1	Was COC appropriately completed?	Х			
2	Did the laboratory report correct sample IDs?	х			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	х			
4	Are results reported for all analytical methods requested?	х			The laboratory reported TPH ORO for method SW8015M, which is not offered for accreditation.
5	Are results reported for all samples submitted for analysis?	х			
6	Were the requested analytical methods used?	Х			
7	Are results reported for all target analytes, but no additional analytes?	х			TPH ORO instead of TPH MRO per the COC was reported for all samples. The laboratory confirmed TPH ORO and TPH MRO report the same ranges.
8	SOIL/SEDIMENT ONLY: Were soil/sediment results reported on a dry weight basis?			x	
9	If requested, were detected results below reporting limit (i.e., "J" values) reported?			х	
10	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	х			
Sampl	e Preservation				
11a	Did samples arrive at the laboratory appropriately preserved?	х			
11b	Was the cooler temperature between 0-6°C?	х			
11c	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	х			TPH GRO was preserved with hydrochloric acid.
11d	SOIL/SEDIMENT ONLY: Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?			x	

>TRC

Analytical Data Review Checklist

13 Receipt? X the COC. 14a All RONLY: Were canisters received with an acceptable vacuum? X X 14a ARI ONLY: Were the RPDs between the initial and analysis holding time requirements met? X X Holding Times X X X 16b ARR ONLY: Were the RPDs between the initial and analysis holding time requirements met? X X Poorting Limits Do the reporting limits meet the project and parameters(s) affected and the dilution and parameters(s) affected and the dilution factor(s). X All non-detect results had reporting limits below parameters(s) affected and the dilution factor(s). 17 and parameters(s) affected and the dilution factor(s). X X Image: Comparameters(s) affected and the dilution factor(s). 18 explanation as to why dilutions were performed? X X Image: Comparameters(s) affected and the dilution factor(s). 19 blacks? tyse, list contaminants, concentrations detected and associated samples. X Image: Comparameters(s) affected and the dilution factor(s). 19 blanks? tyse, list contaminants, concentrations detected in the field blank? X Image: Comparameters(s) affected and prove the field blank factor(s). 20 Does each analytical or preparation black haw		tem or Question	Υ	N	NA	Comments
13 receipt? the COC. 14a AR ONLY: Were calibrase received with an acceptable vacuum? X X 14a AR ONLY: Were the RPDs between the initial and and cansier flow controler calibrations <20?	12 acce	eptable condition (i.e., no breakages, leaks,	х			
14a acceptable vacuum? X 14 AR ONLY: Ware the RPDs between the initial and find caniset flow controller calibrations <2007			х			The cooler included a trip blank, but it was correctly not listed on the COC.
14b and final canister flow controller calibrations <20?	10	-			х	
Were sample preparation and analysis holding x Reporting Limits Do the reporting limits meet the project 16 specifications (e.g., QAPP or Work Plan)? 17 and parameters(s) affected and the dilution factor(s). 17 and parameters(s) affected and the dilution factor(s). 18 Ever dilutions performed? If so, note sample(s). 19 Mere target analytes detected in the method blank's (oncentrations detected and associated samples. 19 Were target analytes detected in the method blank's (e.g., trip blanks, equipment blanks)? If yes, its contaminants, concentrations detected in equipment blank EB-1 0/078 mg/L. 20 Does each analytical or preparation batch have and associated samples. 21 yes, its contaminants, concentrations detected in the field blank (e.g., trip blanks, equipment blanks)? If yes, its contaminants, concentrations detected in equipment blank EB-1 0/078 mg/L. 22 Preve target analytes detected in the field blank results. 23 Are there any potentia flates positive results based on questions 19 and/or 21? 24 Does each analytical or preparation batch		-			x	
Wree sample preparation and analysis holding x Reporting Limits Do the reporting limits meet the project 16 specifications (e.g., QAPP or Work Plan)? X 17 and parameters(s) affected and the diution factor (s), affected and the diution factor (s), affected and the diution factor (s), is is contaminants, concentrations X 18 Were dilutions performed? If so, note sample(s), affected and the diution factor (s), is is contaminants, concentrations X 18 Were target analytes detected in the method blank? If yes, list contaminants, concentrations detected and associated samples. X 20 Does each analytical or preparation batch have is some thanks (g, utp blanks, equipment blanks)? If yes, list contaminants, concentrations detected in equipment blank EB-1 0/078 mg/L. 21 yes, list contaminants, concentrations detected in the field blank (s) (g, utp blanks, equipment blanks)? If yes, list contaminants, concentrations detected in the sample's W-1, MW-2, and MW-3 ag within five times the equipment blank EB-1 0/078 mg/L. 22 Does each analytical or preparation batch have is assed on questions 19 and/or 21? X 23 Are there any potential false positive results based on questions 19 and/or 21? X 23 Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the LCS/LCSD recoveries within QC limits? If no, list analytes affected, the RPDs, and the affected aranalytes affected, the RPDs and the sample that	olding Ti	mes				
Do the reporting limits meet the project x All non-detect results had reporting limits below p 16 specifications (e.g., QAPP or Work Plan)? x X 17 and parameters(s) affected and the dilution factor(s). x x 18 explanation as to why dilutions were performed? x x 18 explanation as to why dilutions were performed? x x 19 detected and associated samples. x x 20 Does each analytes detected in the method blanks? If yes, list contaminants, concentrations detected in a detected in equipment blank (Plank) x 20 Does each analytes detected in the field blank results). x TPH DRO was detected in equipment blank EB-1 0.078 mg/L. 21 yes, list contaminants, concentrations detected and associated samples (or attach field blank results). x TPH DRO was detected in equipment blank detection: the field blank results). 22 Does each analytes detected in the field blank results). x TPH DRO in samples MW-1, MW-2, and MW-3 y within five times the equipment blank detection: the blank of the time any potential false positive results based on questions 19 and/or 21? x Within five times the equipment blank detection: the field equipment. 22 Does each analytical or preparation batch have its own LCS? x IPH DRO in samples MW-1, MW-2, and MW-3 y within five times the equipment blank detection: the projected blank results). </td <td>Wer</td> <td>e sample preparation and analysis holding</td> <td>х</td> <td></td> <td></td> <td></td>	Wer	e sample preparation and analysis holding	х			
16 specifications (e.g., QAPP or Work Plan)? x x 17 and parameters(s) affected and the dilution factor(s). x x 18 Ware dilutions performed? If so, note sample(s) and parameters(s) affected and the dilution factor(s). x x 18 Did the laboratory provide an adequate explanation as to why dilutions were performed? x x QC Results Blanks Ware analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples. 20 Does each analytical or preparation batch have tiss own method blank? x x 21 yes, list contaminants, concentrations detected in the field blank results). x x x 22 Does each analytical or preparation batch have tiss own method blank? x x x 0.078 mg/L. 21 yes, list contaminants, concentrations detected in the field blank results). x x x D, 0.78 mg/L. 22 Presults: and associated samples (or attach field blank results). x x D, 0.78 mg/L. x 23 Are there any potential false positive results based on questions 19 and/or 21? x x x </td <td>porting</td> <td>Limits</td> <td></td> <td></td> <td></td> <td></td>	porting	Limits				
17 and parameters(s) affected and the dilution actors(s) affected and the dilution actors(s) affected and adequate explanation as to why dilutions were performed? x 18 bid the laboratory provide an adequate explanation as to why dilutions were performed? x 19 Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples. x 20 Does each analytical or preparation batch have the and essociated samples. x 21 beaks? If yes, list contaminants, concentrations detected in the field blank? x 21 beaks() (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results). x 17H DRO was detected in equipment blank EB-1 0.078 mg/L. 21 beaks(), (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results). x 10.078 mg/L. 22 based on questions 19 and/or 21? x x 10.078 mg/L. 23 recoveries, and the affected samples. x 10 PRO in samples MW-1, MW-2, and MW-3 w within first times the equipment blank detectors, the maximum contributions from inadequate deceted field equipment. 24 Does each analytical or preparation batch have its own LCS? x 12 If the affected, the RPDs, and the affected samples. <td></td> <td></td> <td>х</td> <td></td> <td></td> <td>All non-detect results had reporting limits below project criteria.</td>			х			All non-detect results had reporting limits below project criteria.
18 explanation as to why dilutions were performed? X QC Results Blanks 9 Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected in dassociated samples. X 20 Does each analytical or preparation batch have its own method blank? X 21 best each analytical or preparation batch have its own method blank? X 21 yes, list contaminants, concentrations detected and associated samples (or attach field blank results). X 21 yes, list contaminants, concentrations detected and associated samples (or attach field blank results). X 22 Pre there any potential false positive results based on questions 19 and/or 21? X 22 based on questions 19 and/or 21? X 23 Re there any potential false positive results have its own LCS? X 24 Does each analytical or preparation batch have its own LCS? X 23 recoveries, and the affected samples. X 24 Does each analytical or preparation batch have its own LCS? X 25 analytes affected, the RCS/LCSD X 26 analytes affected, the RS/MSD recoveries and the sample that was spiked. X 26<	17 and	parameters(s) affected and the dilution		х		
Blanks 19 Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples. x 20 Does each analytical or preparation batch have its own method blank? x 21 us constrained and associated samples. x 22 Does each analytical or preparation batch have its own method blank? x 21 yes, list contaminants, concentrations detected and associated samples (or attach field blank results). TPH DRO was detected in equipment blank EB-1 0.078 mg/L. 22 Are there any potential false positive results based on questions 19 and/or 21? x TPH DRO in samples MW-1, MW-2, and MW-3 way in measurement contributions from inadequate decting it DRO in samples MW-1, MW-2, and MW-3 may in measurement. 23 Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples. x 24 Does each analytical or preparation batch have samples. x x 24 Does each analytical or preparation batch have samples. x x 26 Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples. x x 26 Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked. x x <td></td> <td></td> <td></td> <td></td> <td>х</td> <td></td>					х	
Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples. x 20 Does each analytical or preparation batch have is own method blank? x 21 Dees each analytical or preparation batch have is own method blank? x 21 Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected an associated samples (or attach field blank results). TPH DRO was detected in equipment blank EB-1 0.078 mg/L. 22 Are there any potential false positive results based on questions 19 and/or 21? x TPH DRO in samples MW-1, MW-2, and MW-3 w within five times the equipment blank detection; ti DRO in samples MW-1, MW-2, and MW-3 may ir measurement contributions from inadequate decc field equipment. 22 Laboratory Control Spikes x Image: Stanalytes affected, the LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries within QC limits? If no, list analytes affected, the RPDs, and the affected samples. x Image: Stanalytes affected, the RPDs, and the affected samples. 24 Does each analytical or preparation batch have its own LCS? x Image: Stanalytes affected, the RPDs, and the affected samples. X 25 Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples. X Image: Stanalytes affected, the RPDs and the affected samples.	C Resi	ılts				
19 blanks? If yes, list contaminants, concentrations detected and associated samples. X 20 Does each analytical or preparation batch have its own method blank? X X 20 Does each analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results). X TPH DRO was detected in equipment blank EB-1 0.078 mg/L. 21 yes, list contaminants, concentrations detected and associated samples (or attach field blank results). X 0.078 mg/L. 22 Are there any potential false positive results based on questions 19 and/or 21? X TPH DRO in samples MW-1, MW-2, and MW-3 we within five times the equipment blank detection; the DRO in samples MW-1, MW-2, and MW-3 may in measurement contributions from inadequate decomposities affected, the LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries within QC limits? If no, list analytes affected, the CS/LCSD recoveries and the affected samples. X 24 Does each analytical or preparation batch have its own LCS? X X Image: samples. 25 Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples. X Image: samples. 26 Intervention to the MSMSD recoveries and the affected, the MSMSD recoveries and the sample that was spiked. X Image: saffected, the RPDs and the sample that						
20 its own method blank? X 21 its own method blank? X 21 Were any target analytes detected in the field blank(s) (g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results). TPH DRO was detected in equipment blank EB-1 0.078 mg/L. 22 Are there any potential false positive results based on questions 19 and/or 21? X TPH DRO in samples MW-1, MW-2, and MW-3 within five times the equipment blank detection; the DRO in samples MW-1, MW-2, and MW-3 may it measurement contributions from inadequate dectifield equipment. 22 Are there any potential false positive results X Were any target analytical or preparation black have its analytes affected, the LCS/LCSD recoveries within QC limits? If no, list analytes affected, the RPDs, and the affected samples. X Image: Concent	blan	ks? If yes, list contaminants, concentrations		х		
21 blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results). X 0.078 mg/L. 22 Are there any potential false positive results based on questions 19 and/or 21? X TPH DRO in samples MW-1, MW-2, and MW-3 w within five times the equipment blank detection; th DRO in samples MW-1, MW-2, and MW-3 w within five times the equipment blank detection; th DRO in samples MW-1, MW-2, and MW-3 way in measurement contributions from inadequate deci- field equipment. Laboratory Control Spikes X PRO in samples MW-1, MW-2, and MW-3 w within five times the equipment blank detection; th DRO in samples MW-1, MW-2, and MW-3 way in measurement contributions from inadequate deci- field equipment. 23 Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples. X 24 Does each analytical or preparation batch have its own LCS? X 24 Does each analytical or preparation batch have its own LCS? X 25 Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples. X 26 Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked. X 27 Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that X			х			
22 based on questions 19 and/or 21? x within five times the equipment blank detection; til DRO in samples MW-1, MW-2, and MW-3 may in measurement contributions from inadequate dectifield equipment. Laboratory Control Spikes Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples. X Image: Control Spike Sp	blan 21 yes, and	k(s) (e.g., trip blanks, equipment blanks)? If list contaminants, concentrations detected associated samples (or attach field blank	х			TPH DRO was detected in equipment blank EB-1-2-23-23 at 0.078 mg/L.
Laboratory Control Spikes 23 Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples. X Image: Control Spikes 24 Does each analytical or preparation batch have its own LCS? X Image: Control Spikes 25 Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples. X Image: Control Spikes Matrix Spikes 26 Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked. X Image: MS/MSD second end end end end end end end end end e	base		х			TPH DRO in samples MW-1, MW-2, and MW-3 were detected within five times the equipment blank detection; therefore, TPH DRO in samples MW-1, MW-2, and MW-3 may include measurement contributions from inadequate decontamination of field equipment.
23 no, list analytes affected, the LCS/LCSD recoveries, and the affected samples. X Image: Constraint of the affected samples of the affected samples of the affected samples. 24 Does each analytical or preparation batch have its own LCS? X Image: Constraint of the affected samples of the analytes affected, the RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples. X Image: Constraint of the analytes affected, the RPDs, and the affected samples. 26 Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked. X MS/MSDs were performed on a non-project sample sample MS/MSD results were not evaluated durin sample MS/MSD results were not evaluated durin sample MS/MSD results were not evaluated durin sample MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that X 27 Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that X	boratory	Control Spikes				· · · · ·
24 its own LCS? X X 25 Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected x X X 25 Matrix Spikes X X X 26 Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked. X MS/MSDs were performed on a non-project samp sample MS/MSD results were not evaluated durin analytes affected, the RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that X	no, l	ist analytes affected, the LCS/LCSD	х			
25 analytes affected, the RPDs, and the affected samples. x x x Matrix Spikes Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked. MS/MSDs were performed on a non-project sample MS/MSD results were not evaluated durin sample MS/MSD results were not evaluated durin analytes affected, the RPDs and the sample that 27 Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that x	²⁴ its o	wn LCS?	х			
26 Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked. X MS/MSDs were performed on a non-project sample manual during sample MS/MSD results were not evaluated during sample MS/MSD results were not evaluated during analytes affected, the RPDs and the sample that 27 Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that X	25 anal	ytes affected, the RPDs, and the affected	х			
26 list analytes affected, the MS/MSD recoveries and the sample that was spiked. x sample MS/MSD results were not evaluated during and the sample that was spiked. 27 Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that x						
27 analytes affected, the RPDs and the sample that X	list a	analytes affected, the MS/MSD recoveries			х	MS/MSDs were performed on a non-project sample; non-project sample MS/MSD results were not evaluated during this review.
	27 anal	ytes affected, the RPDs and the sample that			x	

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>TRC

Analytical Data Review Checklist

Revi	ew Item or Question	Υ	Ν	NA	Comments
urro	gates				
28	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.	х			
uplio	cates Note: If not performed on a pro	iect sai	nple, eva	aluation	is not required.
29	Are laboratory duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			x	
30	Were field duplicate criteria met? If no, list analytes affected, the RPD and/or absolute difference (as applicable), and the associated samples.		x		Field duplicate pair Duplicate-1 and MW-1 do not meet project criteria for TPH DRO (AbsD 0.061 mg/L) and TPH ORO (0.122 mg/L); therefore, TPH DRO and TPH ORO in Duplicate-1 and MW-1 may be considered estimated.
o th	e Data Make Sense?		<u>,</u>		
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences) that have not already been addressed above? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		x		
32	Were any other potential data quality issues identified? If yes, describe issues.		х		
	Do any results look questionable? If yes, ASK		x		
33	THE LAB.				

Notes:

Reference: EPA Superfund Contract Laboratory Program (CLP) National Functional Guidelines (NFGs) for Data Review (November, 2020)

Abbreviations:

- AbsD = Absolute Difference COC = Chain-of-Custody DRO = Diesel Range Organics EDD = Electronic Data Deliverable GRO = Gasoline Range Organics LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate MRO = Motor Range Organics MS/MSD = Matrix Spike / Matrix Spike Duplicate NELAP = National Environmental Laboratory Accreditation Program ORO = Oil Range Organics QAPP = Quality Assurance Project Plan QC = Quality Control %R = Percent Recovery RPD = Relative Percent Difference = 100% x |(A-B)/((A+B)/2)|
- TPH = Total Petroleum Hydrocarbon



10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887

August 17, 2023

Dana Helbert TRC Corporation 505 East Huntland Drive Suite 250 Austin, TX 78752

Work Order: HS23061407

Laboratory Results for: HEP WTX to EMSU

Dear Dana Helbert,

ALS Environmental received 8 sample(s) on Jun 21, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

marchi

Generated By: ANDREW.NEIR Andy C. Neir

Date: 17-Aug-23

SAMPLE SUMMARY

ALS Houston, US

Client:	TRC Corporation
Project:	HEP WTX to EMSU
Work Order:	HS23061407

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23061407-01	MW-1	GW		20-Jun-2023 10:19	21-Jun-2023 09:39	
HS23061407-02	MW-2	GW		20-Jun-2023 09:03	21-Jun-2023 09:39	
HS23061407-03	MW-3	GW		20-Jun-2023 07:33	21-Jun-2023 09:39	
HS23061407-04	MW-4	GW		20-Jun-2023 09:39	21-Jun-2023 09:39	
HS23061407-05	MW-5	GW		20-Jun-2023 08:12	21-Jun-2023 09:39	
HS23061407-06	EB-06-20-23	Water		20-Jun-2023 08:30	21-Jun-2023 09:39	
HS23061407-07	Duplicate-01	GW		20-Jun-2023 00:00	21-Jun-2023 09:39	
HS23061407-08	Trip Blank	Water	CG-041923 -946	20-Jun-2023 00:00	21-Jun-2023 09:39	~

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Client:TRC CorporationProject:HEP WTX to EMSUWork Order:HS23061407

GC Semivolatiles by Method SW8015M

Batch ID: 196539

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method SW8015

Batch ID: R439514,R439549

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Date: 17-Aug-23

Page 145 of 232

CASE NARRATIVE

ALS Houston, US

ANALYSES	RESULT QUAL	REPORT DILUTION DATE LIMIT UNITS FACTOR ANALYZ		
Collection Date:	20-Jun-2023 10:19	Matrix:GW		
Sample ID:	MW-1	Lab ID:HS23061407-01		
Project:	HEP WTX to EMSU	WorkOrder:HS23061407		
Client:	TRC Corporation	ANALYTICAL REP	ORT	

SW8015C ND 0.0500 mg/L 1 21-Jun-2023 1 Surr: 4-Bromofluorobenzene 96.0 70-123 %REC 1 21-Jun-2023 1 TPH DRO/ORO BY SW8015C Method:SW8015M Prep:SW3511 / 21-Jun-2023 Analyst: 3 TPH (Diesel Range) 0.16 0.052 mg/L 1 22-Jun-2023 1						
Surr: 4-Bromofluorobenzene 96.0 70-123 %REC 1 21-Jun-2023 1 TPH DRO/ORO BY SW8015C Method:SW8015M Prep:SW3511 / 21-Jun-2023 Analyst: 3 TPH (Diesel Range) 0.16 0.052 mg/L 1 22-Jun-2023 1 TPH (Oil Range) 0.23 n 0.10 mg/L 1 22-Jun-2023 1		Method:SW8015				Analyst: PJM
TPH DRO/ORO BY SW8015C Method:SW8015M Prep:SW3511 / 21-Jun-2023 Analystic TPH (Diesel Range) 0.16 0.052 mg/L 1 22-Jun-2023 1 TPH (Oil Range) 0.23 n 0.10 mg/L 1 22-Jun-2023 1	Gasoline Range Organics	ND	0.0500	mg/L	1	21-Jun-2023 15:34
TPH (Diesel Range) 0.16 0.052 mg/L 1 22-Jun-2023 1 TPH (Oil Range) 0.23 n 0.10 mg/L 1 22-Jun-2023 1	Surr: 4-Bromofluorobenzene	96.0	70-123	%REC	1	21-Jun-2023 15:34
TPH (Oil Range) 0.23 n 0.10 mg/L 1 22-Jun-2023 1	TPH DRO/ORO BY SW8015C	Method:SW8015M		Prep:SW3511 / 2	21-Jun-2023	Analyst: SAM
	TPH (Diesel Range)	0.16	0.052	mg/L	1	22-Jun-2023 17:20
Surr: 2-Fluorobiphenyl 94.7 60-135 %REC 1 22-Jun-2023 1	TPH (Oil Range)	0.23 n	0.10	mg/L	1	22-Jun-2023 17:20

ALS Houston, US

Client:	TRC Corporation	ANALYTICAL REPORT
Project:	HEP WTX to EMSU	WorkOrder:HS23061407
Sample ID:	MW-2	Lab ID:HS23061407-02
Collection Date:	20-Jun-2023 09:03	Matrix:GW
		REPORT UNITS DILUTION DATE

ANALYSES	RESULT	QUAL	LIMIT	UNITS	FACTOR	ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: PJM
Gasoline Range Organics	ND		0.0500	mg/L	1	21-Jun-2023 15:47
Surr: 4-Bromofluorobenzene	91.7		70-123	%REC	1	21-Jun-2023 15:47
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	21-Jun-2023	Analyst: SAM
TPH (Diesel Range)	0.065		0.051	mg/L	1	22-Jun-2023 17:49
TPH (Oil Range)	ND	n	0.10	mg/L	1	22-Jun-2023 17:49
Surr: 2-Fluorobiphenyl	80.4		60-135	%REC	1	22-Jun-2023 17:49

ALS Houston, US

Client:	TRC Corporation			ANALYTIC	CAL REPORT	
Project:	HEP WTX to EMSU	WorkOrder:HS23061407			061407	
Sample ID:	MW-3	Lab ID:HS23061407-03			61407-03	
Collection Date:	20-Jun-2023 07:33		Ν	latrix:GW		
ANALYSES	RESULT QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	•

GASOLINE RANGE ORGANICS BY SW8015C	Method:SW8015				Analyst: PJM
Gasoline Range Organics	ND	0.0500	mg/L	1	21-Jun-2023 16:01
Surr: 4-Bromofluorobenzene	92.7	70-123	%REC	1	21-Jun-2023 16:01
TPH DRO/ORO BY SW8015C	Method:SW8015M		Prep:SW3511 /	21-Jun-2023	Analyst: SAM
TPH (Diesel Range)	ND	0.052	mg/L	1	22-Jun-2023 18:19
TPH (Oil Range)	0.13 _n	0.10	mg/L	1	22-Jun-2023 18:19
Surr: 2-Fluorobiphenyl	77.1	60-135	%REC	1	22-Jun-2023 18:19

ALS Houston, US

		REPORT DILUTION DATE
Collection Date:	20-Jun-2023 09:39	Matrix:GW
Sample ID:	MW-4	Lab ID:HS23061407-04
Project:	HEP WTX to EMSU	WorkOrder:HS23061407
Client:	TRC Corporation	ANALYTICAL REPORT

ANALYSES	RESULT	QUAL	LIMIT	UNITS	FACTOR	ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: PJM
Gasoline Range Organics	ND		0.0500	mg/L	1	21-Jun-2023 16:15
Surr: 4-Bromofluorobenzene	95.6		70-123	%REC	1	21-Jun-2023 16:15
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	21-Jun-2023	Analyst: SAM
TPH (Diesel Range)	0.080		0.051	mg/L	1	22-Jun-2023 18:48
TPH (Oil Range)	ND	n	0.10	mg/L	1	22-Jun-2023 18:48
Surr: 2-Fluorobiphenyl	90.7		60-135	%REC	1	22-Jun-2023 18:48

ALS Houston, US

Client:	TRC Corporation			ANALYTIC	CAL REPORT
Project:	HEP WTX to EMSU	WorkOrder:HS23061407			061407
Sample ID:	MW-5	Lab ID:HS23061407-05			061407-05
Collection Date:	20-Jun-2023 08:12		Ν	latrix:GW	
ANALYSES	RESULT QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED

GASOLINE RANGE ORGANICS BY SW8015C	Method:SW8015			Analyst: PJM
Gasoline Range Organics	ND	0.0500	mg/L 1	21-Jun-2023 16:29
Surr: 4-Bromofluorobenzene	90.7	70-123	%REC 1	21-Jun-2023 16:29
TPH DRO/ORO BY SW8015C	Method:SW8015M		Prep:SW3511 / 21-Jun-202	3 Analyst: SAM
TPH (Diesel Range)	0.066	0.052	mg/L 1	22-Jun-2023 19:18
TPH (Diesel Range) TPH (Oil Range)	0.066 ND n	0.052 0.10	mg/L 1 mg/L 1	22-Jun-2023 19:18 22-Jun-2023 19:18

ALS Houston, US ANALYTICAL REPORT **TRC** Corporation Client: WorkOrder:HS23061407 HEP WTX to EMSU Project: Sample ID: EB-06-20-23 Lab ID:HS23061407-06 Collection Date: 20-Jun-2023 08:30 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: PJM
Gasoline Range Organics	ND		0.0500	mg/L	1	21-Jun-2023 15:20
Surr: 4-Bromofluorobenzene	88.3		70-123	%REC	1	21-Jun-2023 15:20
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	21-Jun-2023	Analyst: SAM
TPH (Diesel Range)	ND		0.054	mg/L	1	22-Jun-2023 19:47
TPH (Oil Range)	ND	n	0.11	mg/L	1	22-Jun-2023 19:47
Surr: 2-Fluorobiphenyl	78.5		60-135	%REC	1	22-Jun-2023 19:47

ALS Houston, US		Date: 17-Aug-23
Client:	TRC Corporation	ANALYTICAL REPORT
Project:	HEP WTX to EMSU	WorkOrder:HS23061407
Sample ID:	Duplicate-01	Lab ID:HS23061407-07
Collection Date:	20-Jun-2023 00:00	Matrix:GW

ANALYSES	RESULT	QUAL	REPORT	UNITS	DILUTION	DATE ANALYZED
GASOLINE RANGE ORGANICS BY			LIMIT			
SW8015C		Method:SW8015				Analyst: PJM
Gasoline Range Organics	ND		0.0500	mg/L	1	21-Jun-2023 18:46
Surr: 4-Bromofluorobenzene	85.6		70-123	%REC	1	21-Jun-2023 18:46
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	21-Jun-2023	Analyst: SAM
TPH (Diesel Range)	0.065		0.052	mg/L	1	22-Jun-2023 20:17
TPH (Oil Range)	ND	n	0.10	mg/L	1	22-Jun-2023 20:17
Surr: 2-Fluorobiphenyl	74.8		60-135	%REC	1	22-Jun-2023 20:17

Weight / Prep Log

Client:TRC CorporationProject:HEP WTX to EMSUWorkOrder:HS23061407

Batch ID: 196539		Start Dat	e: 21 Jun 202	23 12:00	End Date: 21 Jun 2023 12:00
Method: SW3511					Prep Code: 3511_DRO
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061407-01		31.7 (mL)	2 (mL)	0.06309	40 mL Amber
HS23061407-02		32.4 (mL)	2 (mL)	0.06173	40 mL Amber
HS23061407-03		31.96 (mL)	2 (mL)	0.06258	40 mL Amber
HS23061407-04		32.52 (mL)	2 (mL)	0.0615	40 mL Amber
HS23061407-05		31.86 (mL)	2 (mL)	0.06277	40 mL Amber
HS23061407-06		30.62 (mL)	2 (mL)	0.06532	40 mL Amber
HS23061407-07		31.75 (mL)	2 (mL)	0.06299	40 mL Amber

Client: Project: WorkOrder:	TRC Corporation HEP WTX to EMSU HS23061407				DATES RE	PORT
Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 196539	(0) Test Name : 1	TPH DRO/ORO BY SW	8015C		Matrix: Water	
HS23061407-06	EB-06-20-23	20 Jun 2023 08:30		21 Jun 2023 12:00	22 Jun 2023 19:47	1
Batch ID: 196539	(0) Test Name : 1	IPH DRO/ORO BY SW	8015C		Matrix: GW	
HS23061407-01	MW-1	20 Jun 2023 10:19		21 Jun 2023 12:00	22 Jun 2023 17:20	1
HS23061407-02	MW-2	20 Jun 2023 09:03		21 Jun 2023 12:00	22 Jun 2023 17:49	1
HS23061407-03	MW-3	20 Jun 2023 07:33		21 Jun 2023 12:00	22 Jun 2023 18:19	1
HS23061407-04	MW-4	20 Jun 2023 09:39		21 Jun 2023 12:00	22 Jun 2023 18:48	1
HS23061407-05	MW-5	20 Jun 2023 08:12		21 Jun 2023 12:00	22 Jun 2023 19:18	1
HS23061407-07	Duplicate-01	20 Jun 2023 00:00		21 Jun 2023 12:00	22 Jun 2023 20:17	1
Batch ID: R43951	4 (0) Test Name : 0	GASOLINE RANGE OR	GANICS BY SW80150	C	Matrix: Water	
HS23061407-06	EB-06-20-23	20 Jun 2023 08:30			21 Jun 2023 15:20	1
Batch ID: R43951	4 (0) Test Name : 0	GASOLINE RANGE OR	GANICS BY SW80150	0	Matrix: GW	
HS23061407-01	MW-1	20 Jun 2023 10:19			21 Jun 2023 15:34	1
HS23061407-02	MW-2	20 Jun 2023 09:03			21 Jun 2023 15:47	1
HS23061407-03	MW-3	20 Jun 2023 07:33			21 Jun 2023 16:01	1
HS23061407-04	MW-4	20 Jun 2023 09:39			21 Jun 2023 16:15	1
HS23061407-05	MW-5	20 Jun 2023 08:12			21 Jun 2023 16:29	1
Batch ID: R43954	9(0) Test Name : 0	GASOLINE RANGE OR	GANICS BY SW80150	C	Matrix: GW	
HS23061407-07	Duplicate-01	20 Jun 2023 00:00			21 Jun 2023 18:46	1

Client:	TRC Corporation
Project:	HEP WTX to EMSU
WorkOrder:	HS23061407

QC BATCH REPO	RT
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Batch ID: 1968	539(0)	Instr	ument: I	FID-16	M	ethod: T	PH DRO/OF	RO BY SW80 ⁷	15C
MBLK	Sample ID:	MBLK-196539		Units:	mg/L	Ana	alysis Date:	22-Jun-2023	14:52
Client ID:		Ru	n ID: FID-1	6_439711	SeqNo: 7	380936	PrepDate:	21-Jun-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
TPH (Diesel Ran	nge)	ND	0.050						
TPH (Oil Range))	ND	0.10						
Surr: 2-Fluorobip	ohenyl	0.04026	0.0050	0.06	0	67.1	60 - 135		
LCS	Sample ID:	LCS-196539		Units:	mg/L	Ana	alysis Date:	22-Jun-2023	15:21
Client ID:		Ru	n ID: FID-1	6_439711	SeqNo: 7	380937	PrepDate:	21-Jun-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
TPH (Diesel Ran	ige)	0.5606	0.050	0.6	0	93.4	70 - 130		
TPH (Oil Range)		0.4971	0.10	0.6	0	82.9	70 - 130		
Surr: 2-Fluorobip	ohenyl	0.05076	0.0050	0.06	0	84.6	60 - 135		
LCSD	Sample ID:	LCSD-196539		Units:	mg/L	Ana	alysis Date:	22-Jun-2023	15:51
Client ID:		Ru	n ID: FID-1	6_439711	SeqNo: 7	380938	PrepDate:	21-Jun-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
TPH (Diesel Ran	nge)	0.6042	0.050	0.6	0	101	70 - 130	0.5606	7.47 20
TPH (Oil Range)		0.5045	0.10	0.6	0	84.1	70 - 130	0.4971	1.47 20
Surr: 2-Fluorobip	ohenyl	0.05128	0.0050	0.06	0	85.5	60 - 135	0.05076	1.03 20
The following sam	ples were analyze	ed in this batch: HS23(HS23(061407-01 061407-05	HS2306140 HS2306140		HS230614 HS230614		HS23061407-	04

QC BATCH REPORT

Client:	TRC Corporation
Project:	HEP WTX to EMSU
WorkOrder:	HS23061407

Batch ID:	R439514 (0)	In	strument:	FID-20	Μ	iemoa.	GASOLINE F SW8015C	RANGE ORG	ANICS BY
MBLK	Sample ID:	MBLK-230621		Units:	mg/L	An	alysis Date:	21-Jun-2023	11:00
Client ID:			Run ID: FID-	20_439514	SeqNo:	7376349	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline R	ange Organics	ND	0.0500						
Surr: 4-Bro	omofluorobenzene	0.09165	0.00500	0.1	0	91.6	70 - 121		
LCS	Sample ID:	LCS-230621		Units:	mg/L	An	alysis Date:	21-Jun-2023	10:19
Client ID:			Run ID: FID-	20_439514	SeqNo:	7376347	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline R	ange Organics	0.9227	0.0500	1	0	92.3	76 - 124		
Surr: 4-Bro	omofluorobenzene	0.08127	0.00500	0.1	0	81.3	52 - 138		
LCSD	Sample ID:	LCSD-230621		Units:	mg/L	An	alysis Date:	21-Jun-2023	10:32
Client ID:			Run ID: FID-	20_439514	SeqNo:	7376348	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline R	ange Organics	0.8473	0.0500	1	0	84.7	76 - 124	0.9227	8.53 20
Surr: 4-Bro	mofluorobenzene	0.08054	0.00500	0.1	0	80.5	52 - 138	0.08127	0.912 20
The followin	g samples were analyze		23061407-01 23061407-05	HS2306140 HS2306140		HS230614	407-03	HS23061407	-04

QC BATCH REPORT

Client:	TRC Corporation
Project:	HEP WTX to EMSU
WorkOrder:	HS23061407

Batch ID: R43	9549(0)	Ins	strument:	FID-20	M	emou.	GASOLINE F SW8015C	RANGE ORG	ANICS BY
MBLK	Sample ID:	MBLK-230621		Units:	mg/L	An	alysis Date:	21-Jun-2023	18:32
Client ID:		I	Run ID: FID-	-20_439549	SeqNo: 7	377458	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline Range	Organics	ND	0.0500						
Surr: 4-Bromoflu	ıorobenzene	0.09056	0.00500	0.1	0	90.6	70 - 121		
LCS	Sample ID:	LCS-230621		Units:	mg/L	An	alysis Date:	21-Jun-2023	17:51
Client ID:		l	Run ID: FID-	-20_439549	SeqNo: 7	377456	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline Range	Organics	0.8362	0.0500	1	0	83.6	76 - 124		
Surr: 4-Bromoflu	ıorobenzene	0.08393	0.00500	0.1	0	83.9	52 - 138		
LCSD	Sample ID:	LCSD-230621		Units:	mg/L	An	alysis Date:	21-Jun-2023	18:05
Client ID:		l	Run ID: FID-	-20_439549	SeqNo: 7	377457	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline Range	Organics	0.8201	0.0500	1	0	82.0	76 - 124	0.8362	1.94 20
Surr: 4-Bromoflu	lorobenzene	0.08172	0.00500	0.1	0	81.7	52 - 138	0.08393	2.67 20
The following sam	ples were analyze	ed in this batch: HS2	23061407-07			-			

ALS Houston, US

Date: 17-Aug-23

Client:	TRC Corporation HEP WTX to EMSU	QUALIFIERS,
Project:		ACRONYMS, UNITS
WorkOrder:	HS23061407	
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the Reporting Limit	
E	Value above quantitation range	
н	Analyzed outside of Holding Time	
J	Analyte detected below quantitation limit	
М	Manually integrated, see raw data for justification	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL/SDL	
Acronym	Description	
DCS	Detectability Check Study	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitaion Limit	
SD	Serial Dilution	
SDL	Sample Detection Limit	
TRRP	Texas Risk Reduction Program	
Unit Reported	Description	
mg/L	Milligrams per Liter	

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ALS Houston, US

Date: 17-Aug-23

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

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Completed By: / <u>S/ Belinda Gomez</u> 21-Jun-2023 12:11 Reviewed by: / <u>S/ Andy C. Neir</u> 21-Jun-2023 16 eSignature Date/Time eSignature Date/Time Matrices: <u>w</u> Carrier name: FodEx Shipping container/cooler in good condition? Yes No Not Present Not Present Custody seals intact on shipping container/cooler? Yes No Not Present Not Present VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No I Page(s) COC IDs:297211 Samplers name present on COC? Yes No I Page(s) COC IDs:297211 Samples in proper container/bottle? Yes No I COC IDs:297211 Samples in proper container/bottle? Yes No I Page(s) Sufficient sample volume for indicated test? Yes No I Sufficient sample volume for indicated test? All samples received within holding time? Yes No I Sufficient sample(s) sent to storage: ISU/14.c #31 Date/Time Matrices Yes No No No VOA vials submitted ISU/21/2023 Water - VA vials have zero headspace? Yes	Sample Receipt Checkl Date/Time Received: 21-Jun-2023 09:39 Received by: Corey Grandits			IS23061407 RC-AUS	
Matrices: y Carrier name: FedEx Shipping container/cooler in good condition? Yes No Not Present Not Present Custody seals intact on shipping container/cooler? Yes No Not Present Not Present Custody seals intact on sample bottles? Yes No Not Present Not Present Custody seals intact on sample bottles? Yes No Not Present Not Present Chain of custody present? Yes No 1 Page(s) Chain of custody signed when relinquished and received? Yes No COC IDS:297211 Samplers name present on COC? Yes No COC IDS:297211 Samples in proper container/bottle? Yes No COC IDS:297211 Samples norper container/bottle? Yes No Coco IDS:297211 Sample containers intact? Yes No Coco IDS:297211 Sample sin proper container/bottle? Yes No Coco IDS:297211 Sample sin proper container/bottle? Yes No Coco IDS:297211 All samples received within holding time? Yes No No No	ed by: /S/ Andy C. Neir 21-Jun-2023 16:24	Reviewed by:	21-Jun-2023 12:11	/S/ Belinda Gomez	ted By:
Shipping container/cooler in good condition? Yes No Not Present Not Present Custody seals intact on sample bottles? Yes No Not Present Not Present Custody seals intact on sample bottles? Yes No Not Present Not Present Custody seals intact on sample bottles? Yes No Not Present Not Present VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No 1 Page(s) Chain of custody present? Yes No 1 Page(s) Chain of custody signed when relinquished and received? Yes No COC IDs:297211 Samplers name present on COC? Yes No COC IDs:297211 Sample rontainer/bottle? Yes No Coc IDs:297211 Sample containers intact? Yes No Coc IDs:297211 Sufficient sample volume for indicated test? Yes No Coc IDs:297211 Sufficie	eSignature Date/Time		Date/Time	eSignature	
Custody seals intact on shipping container/cooler? Yes No Not Present Custody seals intact on sample bottles? Yes No Not Present Chain of custody present? Yes No 1 Page(s) Chain of custody signed when relinquished and received? Yes No COC IDs:297211 Samplers name present on COC? Yes No COC IDs:297211 Samples in proper container/bottle? Yes No COC IDs:297211 Samples in proper container/bottle? Yes No COC IDs:297211 Samples name present on COC? Yes No COC IDs:297211 Chain of custody agrees with sample labels? Yes No COC IDs:297211 Samples in proper container/bottle? Yes No COC IDs:297211 Samples received within holding time? Yes No COC IDs:297211 Sufficient sample volume for indicated test? Yes No Container/Temp Blank temperature in compliance? Temperature(s)/Thermometer(s): 1.5uc/1.4c If 31 Cooler(s)/Kit(s): 16/21/2023 If all 30 Date/Time sample(s) sent to storage: 06/21/2023 Water - pH acceptable upon receipt? Yes No PH adjusted by:	ier name: <u>FedEx</u>	Carrier nar		w	:
Custody seals intact on sample bottles? Yes No Not Present Custody seals intact on sample bottles? Yes No It Page(s) Chain of custody present? Yes No It Page(s) Chain of custody signed when relinquished and received? Yes No COC IDs:297211 Samples name present on COC? Yes No COC IDs:297211 Chain of custody agrees with sample labels? Yes No COC IDs:297211 Samples in proper container/bottle? Yes No COC IDs:297211 Samples in proper container/bottle? Yes No COC IDs:297211 Sufficient sample volume for indicated test? Yes No Container/Temp Blank temperature in compliance? Sufficient sample volume for indicated test? Yes No Itsuc/1.4c It31 Coole(s)/Kit(s): 1.5uc/1.4c It31 Coole(s)/Kit(s): Vater - pH acceptable upon receipt? Yes No No N/A Itsuc/1.4c Water - pH acceptable upon receipt? Yes No N/A Itsuc/1.4c Itsuc/1.4c Itsuc/1.4c Itsuc/1.4c Itsuc/1.4c Itsuc/1.4c Itsuc/1.4c I	No Not Present	Yes 🔽		er/cooler in good condition?	contain
VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No 1 Page(s) Chain of custody present? Yes No 1 COC IDs:297211 Samplers name present on COC? Yes No COC IDs:297211 Samplers name present on COC? Yes No COC IDs:297211 Samples in proper container/bottle? Yes No COC IDs:297211 Sample containers intact? Yes No Coc IDs:297211 Samples received within holding time? Yes No Coc IDs:297211 Samples received within holding time? Yes No Coc IDs:297211 Samples received within holding time? Yes No Intervention Container/Temp Blank temperature in compliance? Yes No Intervention Date/Time sample(s) sent to storage: O6/21/2023 No No/A	No Not Present	Yes 📝	?	act on shipping container/coole	seals in
Chain of custody present? Yes No 1 Page(s) Chain of custody present? Yes No 1 Page(s) Chain of custody signed when relinquished and received? Yes No COC IDs:297211 Samplers name present on COC? Yes No COC IDs:297211 Samplers name present on COC? Yes No COC IDs:297211 Samples in proper container/bottle? Yes No Coc IDs:297211 Sample containers intact? Yes No If 31 Container/Temp Blank temperature in compliance? Yes No If 31 Cooler(s)/Kit(s): Date/Time sample(s) sent to storage		Yes 📃		act on sample bottles?	seals in
Chain of custody signed when relinquished and received? Yes No COC IDs:297211 Samplers name present on COC? Yes No COC IDs:297211 Chain of custody agrees with sample labels? Yes No COC IDs:297211 Samples in proper container/bottle? Yes No COC IDs:297211 Samples in proper container/bottle? Yes No COC IDs:297211 Samples in proper container/bottle? Yes No COC IDs:297211 Sample containers intact? Yes No COC IDs:297211 Sufficient sample volume for indicated test? Yes No COC IDs:297211 All samples received within holding time? Yes No COC IDs:297211 Container/Temp Blank temperature in compliance? Yes No COC IDs:297211 Temperature(s)/Thermometer(s): 1.5uc/1.4c ir31 Cooler(s)/Kit(s): 1.5uc/1.4c ir31 Date/Time sample(s) sent to storage: 06/21/2023 Water - VOA vials have zero headspace? Yes No Yes No N/A Yes PH adjusted? Yes No N/A pH adjusted by:		Yes 📃	ed vials?	1006 Solids in hermetically sea	1005/TX
Some of catalog vigined minimum of a force for all of controls. Yes No Samplers name present on COC? Yes No Chain of custody agrees with sample labels? Yes No Samples in proper container/bottle? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes No Container/Temp Blank temperature in compliance? Yes No Temperature(s)/Thermometer(s): 1.5uc/1.4c ir31 Cooler(s)/Kit(s): 48103 06/21/2023 Water - VOA vials have zero headspace? Yes No No Water - pH acceptable upon receipt? Yes No N/A PH adjusted? PH adjusted by:		Yes 🛃		present?	custody
Chain of custody agrees with sample labels? Yes No Samples in proper container/bottle? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes No Container/Temp Blank temperature in compliance? Yes No Temperature(s)/Thermometer(s): 1.5uc/1.4c ir31 Cooler(s)/Kit(s): 06/21/2023 Integer Provide test in the storage: Water - VOA vials have zero headspace? Yes No Water - pH acceptable upon receipt? Yes No PH adjusted? Yes No N/A PH adjusted by: Integer Provide test in the storage: Integer Provide test in the storage: Client Contacted: Date Contacted: Person Contacted: Client Contacted: Regarding:	No COC IDs:297211	Yes 🛃	eceived?	signed when relinquished and	custody
Sample on datacity agrices minimum bable. Samples in proper container/bottle? Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time? Container/Temp Blank temperature in compliance? Temperature(s)/Thermometer(s): Cooler(s)/Kit(s): Date/Time sample(s) sent to storage: Water - VOA vials have zero headspace? Water - VOA vials have zero headspace? Yes No Mater - pH acceptable upon receipt? PH adjusted? Yes No PH adjusted by: Login Notes: Login Notes: Lab received TB not listed on coc. Client Contacted: Date Contacted: Person Contacted: Contacted By:	No No	Yes 🗹		resent on COC?	s name
Sample ontainer intact? Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time? Yes All samples received within holding time? Container/Temp Blank temperature in compliance? Temperature(s)/Thermometer(s): Cooler(s)/Kit(s): Date/Time sample(s) sent to storage: Water - VOA vials have zero headspace? Yes No No <				agrees with sample labels?	custody
Sample containers intact? Sufficient sample volume for indicated test? Sufficient sample volume for indicated test? All samples received within holding time? Container/Temp Blank temperature in compliance? Temperature(s)/Thermometer(s): Cooler(s)/Kit(s): Date/Time sample(s) sent to storage: O6/21/2023 Water - VOA vials have zero headspace? Yes No No VOA vials submitted Water - pH acceptable upon receipt? PH adjusted? PH adjusted by: Login Note: Login Note: Login Note: Login Contacted: Date Contacted:				r container/bottle?	in prop
All samples received within holding time? Yes All samples received within holding time? Yes Container/Temp Blank temperature in compliance? Yes Temperature(s)/Thermometer(s): 1.5uc/1.4c Cooler(s)/Kit(s): 48103 Date/Time sample(s) sent to storage: 06/21/2023 Water - VOA vials have zero headspace? Yes Water - pH acceptable upon receipt? Yes PH adjusted? Yes No N/A PH adjusted by: Image: Imag				s intact?	containe
All samples received within Holding time? Container/Temp Blank temperature in compliance? Temperature(s)/Thermometer(s): 1.5uc/1.4c Cooler(s)/Kit(s): Date/Time sample(s) sent to storage: 06/21/2023 Water - VOA vials have zero headspace? Yes No NA Yes No NA Yes No NA Yes No N/A Yes No No No N/A Yes No Yes No <td< td=""><td></td><td></td><td></td><td>volume for indicated test?</td><td>t sample</td></td<>				volume for indicated test?	t sample
Temperature(s)/Thermometer(s): 1.5uc/1.4c Cooler(s)/Kit(s): Date/Time sample(s) sent to storage: Water - VOA vials have zero headspace? Yes No No </td <td></td> <td></td> <td></td> <td>ved within holding time?</td> <td>les rece</td>				ved within holding time?	les rece
Cooler(s)/Kit(s): Date/Time sample(s) sent to storage: Water - VOA vials have zero headspace? Water - pH acceptable upon receipt? PH adjusted? PH adjusted? PH adjusted by: Login Notes: Login Notes: Login Contacted: Client Contac			?		
Date/Time sample(s) sent to storage: 06/21/2023 Water - VOA vials have zero headspace? Yes Water - pH acceptable upon receipt? Yes PH adjusted? Yes PH adjusted by: Ves Login Notes: Lab received TB not listed on coc. Client Contacted: Date Contacted: Person Contacted:	ic ir31			hermometer(s):	
Water - VOA vials have zero headspace? Yes No No VOA vials submitted Water - pH acceptable upon receipt? Yes No N/A pH adjusted? Yes No N/A pH adjusted by:					
Water - pH acceptable upon receipt? Yes No N/A N/A pH adjusted? Yes No N/A N/A pH adjusted by:				.,	
pH adjusted? Yes No N/A pH adjusted by: Login Notes: Lab received TB not listed on coc. Client Contacted: Contacted: Contacted By: Contacted: Contacted By: Contacted: Contact		•			
pH adjusted by: Login Notes: Lab received TB not listed on coc. Client Contacted: Date Contacted: Person Contacted: Contacted By: Regarding:				table upon receipt?	
Login Notes: Lab received TB not listed on coc. Client Contacted: Date Contacted: Contacted By: Regarding:	No 📋 N/A 🗹	Yes			
Client Contacted: Date Contacted: Person Contacted: Contacted By: Regarding:					_
Contacted By: Regarding:					-
	Person Contacted:		Date Contacted:		ontacted
Comments:			Regarding:		ed By:
					nts:
Corrective Action:					

ved by OCD: 4/2	29/2024 3:13:33 PM Cincinnati, OH +1 S13 733 53:			Chain o	of Cus	tody F	orn	า	Houston, 1 +1 281 53(ring City 610 948		501 +1	104 356	ige 161 eston, WV 3168
	Everett, WA +1 425 356 260	Holland, Mi +1 616 399 6	5070	Pag	je of				Middletow +1 717 944			t Lake C 801 266			rk, PA 717 505	5280
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Purchase Order	196675	Project Nam		P WTX to EN	MSU		A	8015_0	<u> BRO_W(</u>	8015 0	RO)-	<u>3xV04</u>	<u>A HCI]</u>			
Work Order	· · · · · · · · · · · · · · · · · · ·	Project Number	^{er} C52	5769			B	8015_1		(8015	DROM	RO) -	[3xVO	A Am I	veat]	
Company Name	TRC Corporation	Bill To Company		Corporatio	ก		C									
Send Report To	Dens Helbert Jare d	Invoice Att	in TRO	AP			D			нς	230	6171	07			
	505 East Huntland Drive			East Huntla	ind Drive		E									
Address	Suite 250	Addres	s Suit	e 250			F				Corp WTX					
City/State/Zip	Austin, TX 78752	City/State/Zi	P Aus	tin TX 7875	2		G									
Phone	(512) 329-6080	Phon	θ (51)	2) 329-6080			H									
Fax	(512) 329-8750	Fa	× (51)	2) 329-8750			1									
e-Mail Address	DHelbert@trccompanies.com	e-Mail Addres	s apir	voiceapprov	/al@trccon	npanies.cor	ηJ								-	
o.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	В	C D	E	F	G	н	1	J	Hold
1 mw - 1		6/20/23	09	GW	1,8	6	X	X			:		:			
2 MW-2	•		5903	· [1	1	1	1		·		,	 			
3 mw-3	· · · · · · · · · · · · · · · · · · ·	·····	5733						;		1					
4 mw-4			939			. +	-						+ +			
5 mw-s			2180	V	<u>↓</u>							±		••••••		
			1930	w	† †						·	4		+ 	· · i	
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8		·~- ··· _ ■ · · ·			*			- * -		- +	†	<u></u>	+	·		
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ampier(s) Please Pr	rint & Sign	Shipment N	lethod	[`]	u ired Turnar STD 10 Wk D	ound Time: (Check 5 Wk De	L] Other			Ri Houri	esults C	Ne Dat	e:	
elinguished by:	21 to 6/20/23	Time:	ceived by:	<u> </u>		<u>•</u> ∓+ <u> </u>	Notes:		WTX to I		L	NU1				<u> </u>
lelinquished by:	Date:	Time: Re	ceived by (L		27 643	c	Cor	over ID	Cooler Ter		: Packag	e: (Chec	k One Bo	ox Below	ŋ	- <u></u> -
ogged by (Leboratory):	: Date:	Yime: Ct	iecked by (Li		12 1 U-1.5	, ,	<u>48</u>	13	1.50			ei II Stot CK	C 2C/Raw Dz			Checklist Level IV

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental. 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse. 3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL Out : <u>5/30/23</u> True: 1145 Nam W: <u>56/20</u> Out of the out of th
(281) 530 - 6654 REF: HEP WIX TO EMSU = BO 33693 - AN RMA: 11 111111 REF: HEP WIX TO EMSU = BO 33693 - AN	FedEx Exprose
FedEx WED - 21 JU Image: 6230 3001 3630 PRIORITY OV	UN 10:30 ERNIGHT
ALS 10450 Stanoliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5866 Fax. +1 281 530 5867	Data 6/20 Data 6/20 Name Correany Correany Data 1/25 TRuce Data 1/25 Data 1/25

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TRC

Analytical Data Review Checklist

Site: WTX (Klein Ranch)	Laboratory: ALS (Houston, TX)
Location: Southwest of Monument, NM	Lab Report #: HS23061407
Client Name: HEP	Reviewer: A. Eljuri
Project #: 525769	Peer Reviewer: L Denly
	Review Date: 8/17/2023

Analytical Method(s):	Matrices Sampled:	Sample Collection Date(s):
TPH GRO by Method SW8015C; TPH DRO/ORO by	Groundwater, aqueous	
Method SW8015M	quality control (QC)	June 20, 2023
	sample	

Sampling Objective(s):

Analyze groundwater for routine monitoring.

Sample IDs (List IDs or attach COC):

Refer to data package sample summary.

Revie	ew Item or Question	Υ	Ν	NA	Comments
Chain-	of-Custody and Data Completeness				
1	Was COC appropriately completed?	Х			
2	Did the laboratory report correct sample IDs?	х			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	х			
4	Are results reported for all analytical methods requested?	Х			The laboratory reported TPH ORO for method SW8015M, which is not offered for accreditation.
5	Are results reported for all samples submitted for analysis?	Х			
6	Were the requested analytical methods used?	х			
7	Are results reported for all target analytes, but no additional analytes?	х			TPH ORO instead of TPH MRO per the COC was reported for all samples. The laboratory confirmed TPH ORO and TPH MRO report the same ranges.
8	SOIL/SEDIMENT ONLY: Were soil/sediment results reported on a dry weight basis?			х	
9	If requested, were detected results below reporting limit (i.e., "J" values) reported?			х	
10	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	х			
Sampl	e Preservation				
11a	Did samples arrive at the laboratory appropriately preserved?	х			
11b	Was the cooler temperature between 0-6°C?	х			
11c	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	х			TPH GRO was preserved with hydrochloric acid.
11d	SOIL/SEDIMENT ONLY: Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?			х	

TRC

Analytical Data Review Checklist

Revi	ew Item or Question	Υ	Ν	NA	Comments
12	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	х			
13	Were any issues noted by the laboratory upon receipt?	х			The cooler included a trip blank, but it was correctly not listed on the COC.
14a	AIR ONLY: Were canisters received with an acceptable vacuum?			х	
14b	AIR ONLY: Were the RPDs between the initial and final canister flow controller calibrations <20?			x	
Holdir	ng Times				
15	Were sample preparation and analysis holding time requirements met?	Х			
Repor	ting Limits				
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	х			All non-detect results had reporting limits below project criteria.
17	Were dilutions performed? If so, note sample(s) and parameters(s) affected and the dilution factor(s).		х		
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?			x	
	Results				
Blank	S				
19	Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		х		
20	Does each analytical or preparation batch have its own method blank?	х			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		х		Equipment blank identified as EB-06-20-23.
22	Are there any potential false positive results based on questions 19 and/or 21?		х		
Labor	atory Control Spikes			4	
23	Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples.	х			
24	Does each analytical or preparation batch have its own LCS?	х			
25	Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples.	х			
Matrix	Spikes				
26	Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.			x	
27	Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was spiked.			x	

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TRC

Analytical Data Review Checklist

Revie	ew Item or Question	Υ	Ν	NA	Comments
Surrog	gates				
28	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.	х			
Duplic	ates Note: If not performed on a pro	ject sar	nple, eva	aluation	is not required.
29	Are laboratory duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			x	
30	Were field duplicate criteria met? If no, list analytes affected, the RPD and/or absolute difference (as applicable), and the associated samples.	х			Field duplicate pair Duplicate-01 and MW-5 meet project criteria.
Do the	e Data Make Sense?			1	
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences) that have not already been addressed above? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		х		
32	Were any other potential data quality issues identified? If yes, describe issues.		х		
33	Do any results look questionable? If yes, ASK THE LAB.		х		
34	Has the EDD been compared to the lab report?			х	
Additic	onal Comments:		1		

Notes:

Reference: EPA Superfund Contract Laboratory Program (CLP) National Functional Guidelines (NFGs) for Data Review (November, 2020)

Abbreviations:

- COC = Chain-of-Custody
- DRO = Diesel Range Organics
- EDD = Electronic Data Deliverable
- GRO = Gasoline Range Organics
- LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
- MRO = Motor Range Organics
- MS/MSD = Matrix Spike / Matrix Spike Duplicate
- NELAP = National Environmental Laboratory Accreditation Program
- ORO = Oil Range Organics
- QAPP = Quality Assurance Project Plan
- QC = Quality Control
- %R = Percent Recovery
- RPD = Relative Percent Difference = 100% x |(A-B)/((A+B)/2)|
- TPH = Total Petroleum Hydrocarbon



10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887

September 19, 2023

Dana Helbert TRC Corporation 505 East Huntland Drive Suite 250 Austin, TX 78752

Work Order: HS23090854

Laboratory Results for: HEP WTX to EMSU

Dear Dana Helbert,

ALS Environmental received 7 sample(s) on Sep 15, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Inder Cl

Generated By: JUMOKE.LAWAL Andy C. Neir

alsglobal.com

ALS Houston, US

Date: 19-Sep-23

SAMPLE SUMMARY

Client:TRC CorporationProject:HEP WTX to EMSUWork Order:HS23090854

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23090854-01	MW-01	Water		14-Sep-2023 11:00	15-Sep-2023 10:00	
HS23090854-02	MW-02	Water		14-Sep-2023 14:20	15-Sep-2023 10:00	
HS23090854-03	MW-03	Water		14-Sep-2023 12:47	15-Sep-2023 10:00	
HS23090854-04	MW-04	Water		14-Sep-2023 13:37	15-Sep-2023 10:00	
HS23090854-05	MW-05	Water		14-Sep-2023 12:00	15-Sep-2023 10:00	
HS23090854-06	EB-09-14-23	Water		14-Sep-2023 14:40	15-Sep-2023 10:00	
HS23090854-07	Duplicate-01	Water		14-Sep-2023 00:00	15-Sep-2023 10:00	

Page 2 of 19

Client:TRC CorporationProject:HEP WTX to EMSUWork Order:HS23090854

GC Semivolatiles by Method SW8015M

Batch ID: 200486

Sample ID: MW-01 (HS23090854-01)

• The surrogate recoveries could not be determined due to dilution below the calibration range.

GC Volatiles by Method SW8015

Batch ID: R446552

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Date: 19-Sep-23

CASE NARRATIVE

Date: 19-Sep-23

ALS Houston, US

ANALYSES	RESULT QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
Collection Date:	14-Sep-2023 11:00		Ν	/atrix:Water	
Sample ID:	MW-01		La	ab ID:HS230	090854-01
Project:	HEP WTX to EMSU		Work	Order:HS230	090854
Client:	TRC Corporation			ANALYTI	CAL REPORT

GASOLINE RANGE ORGANICS BY SW8015C	Method:SW8015			Analyst: TS
Gasoline Range Organics	0.576	0.0500	mg/L 1	15-Sep-2023 17:23
Surr: 4-Bromofluorobenzene	97.1	70-123	%REC 1	15-Sep-2023 17:23
TPH DRO/ORO BY SW8015C	Method:SW8015M		Prep:SW3511 / 15-Sep-2023	Analyst: SAM
TPH (Diesel Range)	43	1.3	mg/L 25	18-Sep-2023 18:34
TPH (Oil Range)	40 n	2.6	mg/L 25	18-Sep-2023 18:34
Surr: 2-Fluorobiphenyl	0 JS	60-135	%REC 25	18-Sep-2023 18:34

Client:	TRC Corporation	ANALYTICAL REPORT
Project:	HEP WTX to EMSU	WorkOrder:HS23090854
Sample ID:	MW-02	Lab ID:HS23090854-02
Collection Date:	14-Sep-2023 14:20	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: TS
Gasoline Range Organics	0.425		0.0500	mg/L	1	15-Sep-2023 17:36
Surr: 4-Bromofluorobenzene	92.5		70-123	%REC	1	15-Sep-2023 17:36
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	15-Sep-2023	Analyst: SAM
TPH (Diesel Range)	0.099		0.050	mg/L	1	18-Sep-2023 19:04
TPH (Oil Range)	ND	n	0.10	mg/L	1	18-Sep-2023 19:04
Surr: 2-Fluorobiphenyl	124		60-135	%REC	1	18-Sep-2023 19:04

Collection Date:

Date: 19-Sep-23

ALS Houston, US ANALYTICAL REPORT **TRC** Corporation Client: HEP WTX to EMSU Project: WorkOrder:HS23090854 Sample ID: MW-03 Lab ID:HS23090854-03

14-Sep-2023 12:47

Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: TS
Gasoline Range Organics	0.244		0.0500	mg/L	1	15-Sep-2023 17:50
Surr: 4-Bromofluorobenzene	88.3		70-123	%REC	1	15-Sep-2023 17:50
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	15-Sep-2023	Analyst: SAM
TPH (Diesel Range)	ND		0.051	mg/L	1	18-Sep-2023 19:33
TPH (Oil Range)	ND	n	0.10	mg/L	1	18-Sep-2023 19:33
Surr: 2-Fluorobiphenyl	121		60-135	%REC	1	18-Sep-2023 19:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Page 6 of 19

Collection Date:

Date: 19-Sep-23

ANALYTICAL REPORT

ALS Houston, US TRC Corporation Client: HEP WTX to EMSU Project: WorkOrder:HS23090854 Sample ID: MW-04

14-Sep-2023 13:37

Lab ID:HS23090854-04 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: TS
Gasoline Range Organics	0.421		0.0500	mg/L	1	15-Sep-2023 18:04
Surr: 4-Bromofluorobenzene	92.9		70-123	%REC	1	15-Sep-2023 18:04
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	15-Sep-2023	Analyst: SAM
TPH (Diesel Range)	0.12		0.050	mg/L	1	18-Sep-2023 20:03
TPH (Oil Range)	0.19	n	0.10	mg/L	1	18-Sep-2023 20:03
Surr: 2-Fluorobiphenyl	125		60-135	%REC	1	18-Sep-2023 20:03

ALS Houston, US		Date: 19-Sep-23
Client:	TRC Corporation	ANALYTICAL REPORT
Project:	HEP WTX to EMSU	WorkOrder:HS23090854
Sample ID:	MW-05	Lab ID:HS23090854-05
Collection Date:	14-Sep-2023 12:00	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: TS
Gasoline Range Organics	0.399		0.0500	mg/L	1	15-Sep-2023 18:17
Surr: 4-Bromofluorobenzene	94.9		70-123	%REC	1	15-Sep-2023 18:17
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	15-Sep-2023	Analyst: SAM
TPH (Diesel Range)	0.11		0.050	mg/L	1	18-Sep-2023 20:32
TPH (Oil Range)	ND	n	0.10	mg/L	1	18-Sep-2023 20:32
Surr: 2-Fluorobiphenyl	125		60-135	%REC	1	18-Sep-2023 20:32

ALS Houston, US

TPH (Oil Range)

Surr: 2-Fluorobiphenyl

Date: 19-Sep-23

18-Sep-2023 21:02

18-Sep-2023 21:02

Client:	TRC Corporati	on	ANALYTICAL REPO				
Project:	HEP WTX to E	MSU		WorkOrder:HS23090854			
Sample ID:	EB-09-14-23			Lab ID:HS23090854-06			
Collection Date:	14-Sep-2023 1	4:40	Matrix:Water			r	
ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
GASOLINE RANGE ORGA SW8015C	NICS BY	Method:SW8015				Analyst: TS	
Gasoline Range Organics	0.243		0.0500	mg/L	1	15-Sep-2023 18:31	
Surr: 4-Bromofluorobenzene	87.2		70-123	%REC	1	15-Sep-2023 18:31	
TPH DRO/ORO BY SW801	5C	Method:SW8015M		Prep:SW3511	/ 15-Sep-2023	Analyst: SAM	
TPH (Diesel Range)	ND		0.052	mg/L	1	18-Sep-2023 21:02	

0.10

60-135

mg/L

%REC

1

1

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ND n

125

ALS Houston, US

TPH (Diesel Range)

Surr: 2-Fluorobiphenyl

TPH (Oil Range)

Date: 19-Sep-23

18-Sep-2023 21:31

18-Sep-2023 21:31

18-Sep-2023 21:31

1

1

1

mg/L

mg/L

%REC

Client:	TRC Corporati	on	ANALYTICAL REPOR				
Project:	HEP WTX to E	MSU		WorkOrder:HS23090854			
Sample ID:	Duplicate-01			Lab ID:HS23090854-07			
Collection Date:	14-Sep-2023 (ep-2023 00:00 Matrix:Wa			atrix:Wate	r	
ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
GASOLINE RANGE ORGANICS BY Method SW8015C		Method:SW8015				Analyst: TS	
Gasoline Range Organics	0.206		0.0500	mg/L	1	15-Sep-2023 18:44	
Surr: 4-Bromofluorobenzene	e 85.0		70-123	%REC	1	15-Sep-2023 18:44	
TPH DRO/ORO BY SW8015C Method:SW8015M			Prep:SW3511	15-Sep-2023	Analyst: SAM		

0.051

0.10

60-135

Note: See Qualifiers Page for a list of qualifiers and their explanation.

0.090

125

ND n

Weight / Prep Log

Client: TRC Corporation Project: HEP WTX to EMSU WorkOrder: HS23090854

Batch ID: 200486		Start Dat	e: 15 Sep 20	23 14:00	End Date: 15 Sep 2023 14:00
Method: SW3511					Prep Code: 3511_DRO
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23090854-01		31.83 (mL)	2 (mL)	0.06283	40 mL Amber
HS23090854-02		32.96 (mL)	2 (mL)	0.06068	40 mL Amber
HS23090854-03		32.33 (mL)	2 (mL)	0.06186	40 mL Amber
HS23090854-04		32.83 (mL)	2 (mL)	0.06092	40 mL Amber
HS23090854-05		32.81 (mL)	2 (mL)	0.06096	40 mL Amber
HS23090854-06		32.02 (mL)	2 (mL)	0.06246	40 mL Amber
HS23090854-07		32.33 (mL)	2 (mL)	0.06186	40 mL Amber

Page 11 of 19

Date: 19-Sep-23

ALS	Houston,	US
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Client: Project: WorkOrder:	TRC Corporation HEP WTX to EMSU HS23090854				DATES RE	PORT
Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 200486	S(0)Test Name : T	PH DRO/ORO BY SW	8015C		Matrix: Water	
HS23090854-01	MW-01	14 Sep 2023 11:00		15 Sep 2023 14:00	18 Sep 2023 18:34	25
HS23090854-02	MW-02	14 Sep 2023 14:20		15 Sep 2023 14:00	18 Sep 2023 19:04	1
HS23090854-03	MW-03	14 Sep 2023 12:47		15 Sep 2023 14:00	18 Sep 2023 19:33	1
HS23090854-04	MW-04	14 Sep 2023 13:37		15 Sep 2023 14:00	18 Sep 2023 20:03	1
HS23090854-05	MW-05	14 Sep 2023 12:00		15 Sep 2023 14:00	18 Sep 2023 20:32	1
HS23090854-06	EB-09-14-23	14 Sep 2023 14:40		15 Sep 2023 14:00	18 Sep 2023 21:02	1
HS23090854-07	Duplicate-01	14 Sep 2023 00:00		15 Sep 2023 14:00	18 Sep 2023 21:31	1
Batch ID: R4465	52 (0) Test Name : G	ASOLINE RANGE OF	GANICS BY SW80150	0	Matrix: Water	
HS23090854-01	MW-01	14 Sep 2023 11:00			15 Sep 2023 17:23	1
HS23090854-02	MW-02	14 Sep 2023 14:20			15 Sep 2023 17:36	1
HS23090854-03	MW-03	14 Sep 2023 12:47			15 Sep 2023 17:50	1
HS23090854-04	MW-04	14 Sep 2023 13:37			15 Sep 2023 18:04	1
HS23090854-05	MW-05	14 Sep 2023 12:00			15 Sep 2023 18:17	1
HS23090854-06	EB-09-14-23	14 Sep 2023 14:40			15 Sep 2023 18:31	1
HS23090854-07	Duplicate-01	14 Sep 2023 00:00			15 Sep 2023 18:44	1

ALS Houston, US

Batch ID: 200486 (0)

TPH (Diesel Range)

Surr: 2-Fluorobiphenyl

TPH (Oil Range)

MBLK

Client ID:

Analyte

Client:	TRC Corporation
Project:	HEP WTX to EMSU
WorkOrder:	HS23090854

Sample ID: MBLK-200486

0.0050

Result

0.06381

ND

ND

23

QC BATCH REPORT

In	strument: Fl	D-16	М	ethod: T	PH DRO/OF	RO BY SW80 ⁴	15C	
6		Units:	mg/L	Ana	Ilysis Date:	18-Sep-2023	17:06	
	Run ID: FID-16	_446729	SeqNo: 7	551466	PrepDate:	15-Sep-2023	DF: 1	
ult	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
ND	0.050							
ND	0.10							

106

60 - 135

0

LCS	Sample ID:	LCS-200486		Units:	mg/L	Ana	lysis Date:	18-Sep-2023	17:36
Client ID:		R	un ID: FID-1	6_446729	SeqNo: 7	551467	PrepDate:	15-Sep-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
TPH (Diesel Rang	ge)	0.4886	0.050	0.6	0	81.4	70 - 130		
TPH (Oil Range)		0.6897	0.10	0.6	0	115	70 - 130		
Surr: 2-Fluorobipl	henyl	0.05948	0.0050	0.06	0	99.1	60 - 135		

0.06

LCSD	Sample ID:	LCSD-200486		Units:	mg/L	Ana	lysis Date:	18-Sep-2023	18:05
Client ID:		Rur	n ID: FID-16	_446729	SeqNo: 7	551468	PrepDate:	15-Sep-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
TPH (Diesel Rang	le)	0.5183	0.050	0.6	0	86.4	70 - 130	0.4886	5.9 20
TPH (Oil Range)		0.6592	0.10	0.6	0	110	70 - 130	0.6897	4.53 20
Surr: 2-Fluorobiph	nenyl	0.05792	0.0050	0.06	0	96.5	60 - 135	0.05948	2.65 20
The following samp	les were analyze	ed in this batch: HS2309 HS2309	90854-01 90854-05	HS23090854 HS23090854		HS230908: HS230908:		HS23090854-	04

Date: 19-Sep-23

QC BATCH REPORT

ALS Houston, US

Client:	TRC Corporation
Project:	HEP WTX to EMSU
WorkOrder:	HS23090854

Batch ID:	R446552(0)	Ins	trument:	FID-20	М	emoa.	GASOLINE F SW8015C	RANGE ORG	ANICS BY
MBLK	Sample ID:	MBLK		Units:	mg/L	An	alysis Date:	15-Sep-2023	17:09
Client ID:		F	Run ID: FID-2	20_446552	SeqNo: 7	547904	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline R	ange Organics	ND	0.0500						
Surr: 4-Bro	omofluorobenzene	0.08526	0.00500	0.1	0	85.3	70 - 121		
LCS	Sample ID:	LCS-230915		Units:	mg/L	An	alysis Date:	15-Sep-2023	16:42
Client ID:		F	Run ID: FID-2	20_446552	SeqNo: 7	547902	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline R	ange Organics	1.045	0.0500	1	0	104	76 - 124		
Surr: 4-Bro	omofluorobenzene	0.09735	0.00500	0.1	0	97.3	52 - 138		
LCSD	Sample ID:	LCSD-230915		Units:	mg/L	An	alysis Date:	15-Sep-2023	16:55
Client ID:		F	Run ID: FID-2	20_446552	SeqNo: 7	547903	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline R	ange Organics	0.9311	0.0500	1	0	93.1	76 - 124	1.045	11.5 20
Surr: 4-Bro	mofluorobenzene	0.1001	0.00500	0.1	0	100	52 - 138	0.09735	2.81 20
The followin	g samples were analyze		3090854-01 3090854-05	HS2309085 HS2309085		HS230908 HS230908		HS23090854-	-04

Page 14 of 19

ALS Houston, US

Date: 19-Sep-23

Client: Project:	TRC Corporation HEP WTX to EMSU	QUALIFIERS, ACRONYMS, UNITS
WorkOrder:	HS23090854	,
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the Reporting Limit	
E	Value above quantitation range	
н	Analyzed outside of Holding Time	
J	Analyte detected below quantitation limit	
М	Manually integrated, see raw data for justification	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL/SDL	
Acronym	Description	
DCS	Detectability Check Study	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitaion Limit	
SD	Serial Dilution	
SDL	Sample Detection Limit	
TRRP	Texas Risk Reduction Program	
Unit Reported	Description	
mg/L	Milligrams per Liter	

Page 15 of 19

ALS Houston, US

Date: 19-Sep-23

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

1.12.4

Date: 19-Sep-23

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					Sample Receipt C	necklist
Work Order ID:	HS23090854		Dat	e/Time Received:	<u>15-Sep-2023 10:00</u>	
Client Name:	TRC-AUS		Rec	ceived by:	Malcolm Burleson	
Completed By:	/S/ Malcolm Burleson	15-Sep-2023 12:06	Reviewed by: /	S/ Nieka.Carson	18-Sep-2023	13:58
	eSignature	Date/Time		eSignature	Date/Tin	ne
Matrices:	water		Carrier name	e: <u>FedEx</u>		
Custody seals in Custody seals in VOA/TX1005/T2 Chain of custod Chain of custod Samplers name Chain of custod Samples in prop Sample containe Sufficient sample	y signed when relinquished and present on COC? y agrees with sample labels? per container/bottle?	led vials?	Yes V Yes V	No No No No No No No No No No	Not Present Not Present Not Present Not Present 1 Page(s) COC IDs:307610	
	Blank temperature in compliance	e?	Yes 🔽	No		
Temperature(s)	/Thermometer(s):		2.6uc 2.5c		ir31	
Cooler(s)/Kit(s):			m. blue			
Date/Time samp	ole(s) sent to storage:		09152023			
	als have zero headspace?		Yes Yes Yes	No	No VOA vials submitted N/A 💽 N/A 💽	
Client Contacted	d:	Date Contacted:		Person Con	tacted:	
Contacted By:		Regarding:				
Comments: Corrective Actio	in:					

Page 17 of 19

	Everett, WA +1 425 356 26	Hollan 00 +1 616	d, MI 399 6070		ageof				Middletown +! 717 944		Salt Lak +1 801 3	e City, UT 266 7700	York, +1 71	PA 7 505 S280
()	4L\$)		_	(<u>80761</u>	0							
····			<u> </u>		ALS Project	Manager:					Work Ord			
Purchase Order	Customer Information			Project Inform			┝╴┯╸				thod Req		Analysis	
	193575	Project	·	deer effektive van de Transminister	18590 		<u> </u>) - 1 _ W ()					
Work Order		Project N		1.576369 			В	C	9 Kolje (* 1995) 	6015 DF	30683413	- (http://	5 /445 P/C8 	,1 <u>-</u>
Company Name	SRC Coputersia	Bill To Co		1981 - Korpunale			C							
Send Report To	Cared Stoles	i invoid	Jornar	780 AJ			D							
Address	105 East Bundano Ceve	Δ.		ADE REGACIANAS Transmission	ad they?		E				HS2	30908	354	
	SURG 180		44,600	કોલો અંગ્રેસ્ટી			F					Corpora		
City/State/Zip	20.0000, FX - 19759	City/Sta	ate/Zip	Postin (X. 787	9 <u>1</u>		G			a la r igue i	HEP VI	TX to Ef	MSU Thirida	REEL KIRTIKE
Phone	(012) (029-YUM)		Phone	642) K U Kak			ิท							
Fax	1912; 529-0770		Fax	642) 025-8743			I							
e-Mail Address	Elsible ghown or exacts	e-Mail Ad	ddress	aunvolua-ppt-	valo iston	(ale the states of the states)	J							
o.	Sample Description	Date	Tīm	e Matrix	Pres.	# Bottles	A	B	C D	E	FG	н	1	J Hold
1 Mw-1	21	9/14/23	3 110	\circ W	HCL	6	Х	X				3		
2 M w - c	2		142	20							i			
mw-c	-		124	7							1			
MW-0		+ -	133							!	1			
MW-0			120								<u>_</u>			
EB-09			144		··-+·	<u></u>				-		··		
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impler(s) Please F	Print & Sign	Shipm	i nent Method	i I Re	quired Turnar	ound Time: (C	Check	Box)	1		I	Results f	Due Date:	
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inquished by	太 9111123	Time:	Received	*Koze	ANI	ellas	Notes:	H&P	A)Σto E	alan i				
linguishe diby:	SIF Nich's Par / 14/2	Time:	Received	by (Laboratory):		57020 1000	Coc	ter ID	Cooler Tem		ackage: (Ci	neck One B	ox Below)	
7.67	- 1 C P 4 / ~ /	1 1 3 7 0												

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 The Chain of Custody is a legal document. All information must be completed accurately.

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Page 19 of 19

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>TRC

Analytical Data Review Checklist

	Site: WTX (Klein Ranch)		Laboratory: ALS (Houston, TX)							
	Location: Southwest of Monument, NM		Lab Report #: HS23090854							
Clie	ent Name: HEP		Reviewer: A. Eljuri							
Project #: 525769				Peer Reviewer: L. Denly						
			Revie	Review Date: 9/21/2023						
Analyt	ical Method(s):	Matrice	es Sample	d:	Sample Collection Date(s):					
TPH GR SW8015	O by Method SW8015C; TPH DRO/ORO by Method SC		water, aque control (QC)		September 14, 2023					
Sampl	ing Objective(s):									
Analyze	groundwater for routine monitoring.									
	e IDs (List IDs or attach COC): o data package sample summary.									
Revi	ew Item or Question	Y	N	NA	Comments					
Chain	-of-Custody and Data Completeness									
1	Was COC appropriately completed?	Х								
2	Did the laboratory report correct sample IDs?	Х								
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	х								
4	Are results reported for all analytical methods requested?	х			The laboratory reported TPH ORO for method SW8015C, which is not offered for accreditation.					
5	Are results reported for all samples submitted for analysis?	х								
6	Were the requested analytical methods used?	х								
7	Are results reported for all target analytes, but no additional analytes?	х			TPH ORO instead of TPH MRO per the COC was reported for all samples. The laboratory confirmed TPH ORO and TPH MRO report the same ranges.					
8	SOIL/SEDIMENT ONLY: Were soil/sediment results reported on a dry weight basis?			x						
9	If requested, were detected results below reporting limit (i.e., "J" values) reported?			х						
10	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	х								
Samp	le Preservation									
11a	Did samples arrive at the laboratory appropriately preserved?	х								
11b	Was the cooler temperature between 0-6°C?	х								
11c	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	x			TPH GRO was preserved with hydrochloric acid.					

Х

Х

in EnCore® samplers?

SOIL/SEDIMENT ONLY: Were soil/sediment VOC samples preserved in the field or collected

11c

11d

>TRC

Analytical Data Review Checklist

Revi	ew Item or Question	Υ	Ν	NA	Comments
12	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	х			
13	Were any issues noted by the laboratory upon receipt?		х		
14a	AIR ONLY: Were canisters received with an acceptable vacuum?			х	
14b	AIR ONLY: Were the RPDs between the initial and final canister flow controller calibrations <20?			x	
Holdin	g Times				
15	Were sample preparation and analysis holding time requirements met?	х			
Repor	ting Limits				
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	х			All non-detect results had reporting limits below project criteria.
17	Were dilutions performed? If so, note sample(s) and parameters(s) affected and the dilution factor(s).	x			MW-01: TPH DRO and TPH ORO 25-fold
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?		x		The reason for the dilution noted in Item 17 was not provided.
QC F	Results				
Blanks	3				
19	Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		x		
20	Does each analytical or preparation batch have its own method blank?	х			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).	x			In equipment blank EB-09-14-23, TPH GRO was detected at 0.243 mg/L.
22	Are there any potential false positive results based on questions 19 and/or 21?	x			Concentrations of TPH-GRO in samples MW-01, MW-02, MW- 03, MW-04, MW-05, and Duplicate-01 were within 10x the concentration in the associated equipment blank; therefore, these samples may include contributions of TPH-GRO from insufficient decontamination of field equipment.
Labora	atory Control Spikes				
23	Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples.	х			
24	Does each analytical or preparation batch have its own LCS?	х			
25	Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples.	х			

TRC

Analytical Data Review Checklist

Revi	ew Item or Question	Υ	Ν	NA	Comments
Matrix	Spikes				
26	Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.			x	
27	Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was spiked.			x	
Surrog	gates		1		
28	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.		x		TPH DRO/ORO surrogate 2-fluorobiphenyl was diluted out (0%R) in the 25-fold dilution of sample MW-01. Qualification of the data is not required on this basis since the dilution factor was ≥10.
Duplic		ect sam	nple, eval	uation i	s not required.
29	Are laboratory duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			x	
30	Were field duplicate criteria met? If no, list analytes affected, the RPD and/or absolute difference (as applicable), and the associated samples.		x		Field duplicate pair Duplicate-01 and MW-02 did not meet project criteria for TPH GRO (AbsD 0.219 mg/L). Therefore, TPH GRO in Duplicate-01 and MW-02 may be considered estimated.
Do the	Data Make Sense?				
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences) that have not already been addressed above? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		х		
32	Were any other potential data quality issues identified? If yes, describe issues.		х		
33	Do any results look questionable? If yes, ASK THE LAB.		х		
34	Has the EDD been compared to the lab report?			х	
Additic None.	nal Comments:			•	•

Notes:

Reference: EPA Superfund Contract Laboratory Program (CLP) National Functional Guidelines (NFGs) for Data Review (November, 2020)

Abbreviations:

COC = Chain-of-Custody DRO = Diesel Range Organics EDD = Electronic Data Deliverable GRO = Gasoline Range Organics LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate MRO = Motor Range Organics MS/MSD = Matrix Spike / Matrix Spike Duplicate NELAP = National Environmental Laboratory Accreditation Program ORO = Oil Range Organics QAPP = Quality Assurance Project Plan QC = Quality Control %R = Percent Recovery RPD = Relative Percent Difference = 100% x |(A-B)/((A+B)/2)| TPH = Total Petroleum Hydrocarbon



10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887

March 20, 2024

Dana Helbert TRC Corporation 505 East Huntland Drive Suite 250 Austin, TX 78752

Work Order: HS23121099

Laboratory Results for: HEP WTX to EMSU

Dear Dana Helbert,

ALS Environmental received 7 sample(s) on Dec 15, 2023 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: ANDREW.NEIR Andy C. Neir

alsglobal.com

SAMPLE SUMMARY

ALS Houston, US

Client:	TRC Corporation
Project:	HEP WTX to EMSU
Work Order:	HS23121099

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23121099-01	MW-5	GW		13-Dec-2023 08:50	15-Dec-2023 09:35	
HS23121099-02	MW-3	GW		13-Dec-2023 09:40	15-Dec-2023 09:35	
HS23121099-03	MW-4	GW		13-Dec-2023 14:40	15-Dec-2023 09:35	
HS23121099-04	MW-2	GW		13-Dec-2023 15:40	15-Dec-2023 09:35	
HS23121099-05	EB-12-13-23	Water		13-Dec-2023 17:30	15-Dec-2023 09:35	
HS23121099-06	Duplicate-01	GW		13-Dec-2023 00:00	15-Dec-2023 09:35	
HS23121099-07	Trip Blank	Water	cg-101623- 401	13-Dec-2023 00:00	15-Dec-2023 09:35	~

Client:TRC CorporationProject:HEP WTX to EMSUWork Order:HS23121099

Work Order Comments

• Login notes: Trip Blank received, not listed on COC and was placed on hold.

Work Order Comments

• FInal report revised to report to the MDL.

GC Semivolatiles by Method SW8015M

Batch ID: 204949

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Volatiles by Method SW8015

Batch ID: R454527

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Date: 20-Mar-24

CASE NARRATIVE

ALS Houston, US		
Client:	TRC Corporation	

Client:	TRC Corporation	ANALYTICAL REPORT
Project:	HEP WTX to EMSU	WorkOrder:HS23121099
Sample ID:	MW-5	Lab ID:HS23121099-01
Collection Date:	13-Dec-2023 08:50	Matrix:GW

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: FT
Gasoline Range Organics	ND		0.0500	mg/L	1	18-Dec-2023 19:30
Surr: 4-Bromofluorobenzene	83.5		70-123	%REC	1	18-Dec-2023 19:30
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	18-Dec-2023	Analyst: SAM
TPH (Diesel Range)	ND		0.053	mg/L	1	18-Dec-2023 11:06
TPH (Oil Range)	ND	n	0.11	mg/L	1	18-Dec-2023 11:06
Surr: 2-Fluorobiphenyl	61.9		60-135	%REC	1	18-Dec-2023 11:06

ALS Houston, US

		REPORT DILUTION DATE				
Collection Date:	13-Dec-2023 09:40	Matrix:GW				
Sample ID:	MW-3	Lab ID:HS23121099-02				
Project:	HEP WTX to EMSU	WorkOrder:HS23121099				
Client:	TRC Corporation	ANALYTICAL REPORT				

ANALYSES	RESULT	QUAL	LIMIT	UNITS	FACTOR	ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: FT
Gasoline Range Organics	ND		0.0500	mg/L	1	18-Dec-2023 19:44
Surr: 4-Bromofluorobenzene	83.7		70-123	%REC	1	18-Dec-2023 19:44
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	18-Dec-2023	Analyst: SAM
TPH (Diesel Range)	ND		0.052	mg/L	1	18-Dec-2023 11:35
TPH (Oil Range)	ND	n	0.10	mg/L	1	18-Dec-2023 11:35
Surr: 2-Fluorobiphenyl	65.6		60-135	%REC	1	18-Dec-2023 11:35

18-Dec-2023 19:57

18-Dec-2023 19:57

18-Dec-2023 12:04

18-Dec-2023 12:04

18-Dec-2023 12:04

Analyst: SAM

1

1

1

1

1

Prep:SW3511 / 18-Dec-2023

mg/L

%REC

mg/L

mg/L

%REC

ALS Houston, US

ND

0.17

0.54

n

Method:SW8015M

87.1

70.1

SW8015C

Gasoline Range Organics

TPH (Diesel Range)

Surr: 2-Fluorobiphenyl

TPH (Oil Range)

Surr: 4-Bromofluorobenzene

TPH DRO/ORO BY SW8015C

Client:	TRC Corporation			ANALYTIC	CAL REPORT
Project:	HEP WTX to EMSU		Work	Order:HS231	21099
Sample ID:	MW-4		La	ab ID:HS231	21099-03
Collection Date:	13-Dec-2023 14:40		N	latrix:GW	
ANALYSES	RESULT QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORG	ANICS BY Method:SW8015				Analyst: FT

0.0500

70-123

0.055

0.11

60-135

Revision: 1

Page 6 of 18

ALS Houston, US

ANALYSES	RESULT QUAL	REPORT	UNITS	DILUTION FACTOR	DATE ANALYZED
Collection Date:	13-Dec-2023 15:40		Ν	latrix:GW	
Sample ID:	MW-2		La	ab ID:HS231	21099-04
Project:	HEP WTX to EMSU		WorkO	Order:HS231	21099
Client:	TRC Corporation			ANALYTIC	CAL REPORT

GASOLINE RANGE ORGANICS BY SW8015C	Method:SW8015			Analyst: FT
Gasoline Range Organics	ND	0.0500	mg/L 1	18-Dec-2023 20:11
Surr: 4-Bromofluorobenzene	82.2	70-123	%REC 1	18-Dec-2023 20:11
TPH DRO/ORO BY SW8015C	Method:SW8015M		Prep:SW3511 / 18-Dec-2023	Analyst: SAM
TPH (Diesel Range)	0.42	0.051	mg/L 1	18-Dec-2023 12:34
TPH (Oil Range)	0.93 n	0.10	mg/L 1	18-Dec-2023 12:34
Surr: 2-Fluorobiphenyl	105	60-135	%REC 1	18-Dec-2023 12:34

Page 7 of 18

ALS Houston, US

Date: 20-Mar-24

Client:	TRC Corporation		ANALYTICAL REPORT
Project:	HEP WTX to EMSU		WorkOrder:HS23121099
Sample ID:	EB-12-13-23		Lab ID:HS23121099-05
Collection Date:	13-Dec-2023 17:30		Matrix:Water
		REPORT	

ANALYSES	RESULT	QUAL	LIMIT	UNITS	FACTOR	ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: FT
Gasoline Range Organics	ND		0.0500	mg/L	1	18-Dec-2023 20:25
Surr: 4-Bromofluorobenzene	82.0		70-123	%REC	1	18-Dec-2023 20:25
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	18-Dec-2023	Analyst: SAM
TPH (Diesel Range)	ND		0.053	mg/L	1	18-Dec-2023 15:59
TPH (Oil Range)	ND	n	0.11	mg/L	1	18-Dec-2023 15:59
Surr: 2-Fluorobiphenyl	75.2		60-135	%REC	1	18-Dec-2023 15:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

Page 8 of 18

ALS Houston, US Client: TRC Corporation

Client:	TRC Corporation	ANALYTICAL REPORT	
Project:	HEP WTX to EMSU	WorkOrder:HS23121099	
Sample ID:	Duplicate-01	Lab ID:HS23121099-06	
Collection Date:	13-Dec-2023 00:00	Matrix:GW	
		REPORT DILUTION DATE	

ANALYSES	RESULT	QUAL	LIMIT	UNITS	FACTOR	ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015				Analyst: FT
Gasoline Range Organics	ND		0.0500	mg/L	1	18-Dec-2023 20:39
Surr: 4-Bromofluorobenzene	85.4		70-123	%REC	1	18-Dec-2023 20:39
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 /	18-Dec-2023	Analyst: SAM
TPH (Diesel Range)	0.12		0.054	mg/L	1	18-Dec-2023 16:28
TPH (Oil Range)	0.49	n	0.11	mg/L	1	18-Dec-2023 16:28
Surr: 2-Fluorobiphenyl	62.5		60-135	%REC	1	18-Dec-2023 16:28

Page 9 of 18

Weight / Prep Log

Client:TRC CorporationProject:HEP WTX to EMSUWorkOrder:HS23121099

Batch ID: 204949		Start Dat	e: 18 Dec 20	23 09:08	End Date: 18 Dec 2023 09:08
Method: SW3511					Prep Code: 3511_DRO
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23121099-01		31.16 (mL)	2 (mL)	0.06418	40 mL Amber
HS23121099-02		31.98 (mL)	2 (mL)	0.06254	40 mL Amber
HS23121099-03		29.83 (mL)	2 (mL)	0.06705	40 mL Amber
HS23121099-04		32.58 (mL)	2 (mL)	0.06139	40 mL Amber
HS23121099-05		31.17 (mL)	2 (mL)	0.06416	40 mL Amber
HS23121099-06		30.72 (mL)	2 (mL)	0.0651	40 mL Amber

1

ALS	Houston,	US
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Client: Project: WorkOrder:	TRC Corporation HEP WTX to EMSI HS23121099	L			DATES RE	PORT
Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 204949	(0) Test Name	TPH DRO/ORO BY SW	'8015C		Matrix: Water	
HS23121099-05	EB-12-13-23	13 Dec 2023 17:30		18 Dec 2023 09:08	18 Dec 2023 15:59	1
Batch ID: 204949	(0) Test Name	TPH DRO/ORO BY SW	8015C		Matrix: GW	
HS23121099-01	MW-5	13 Dec 2023 08:50		18 Dec 2023 09:08	18 Dec 2023 11:06	1
HS23121099-02	MW-3	13 Dec 2023 09:40		18 Dec 2023 09:08	18 Dec 2023 11:35	1
HS23121099-03	MW-4	13 Dec 2023 14:40		18 Dec 2023 09:08	18 Dec 2023 12:04	1
HS23121099-04	MW-2	13 Dec 2023 15:40		18 Dec 2023 09:08	18 Dec 2023 12:34	1
HS23121099-06	Duplicate-01	13 Dec 2023 00:00		18 Dec 2023 09:08	18 Dec 2023 16:28	1
Batch ID: R45452	Test Name	GASOLINE RANGE OF	RGANICS BY SW8015	С	Matrix: Water	
HS23121099-05	EB-12-13-23	13 Dec 2023 17:30			18 Dec 2023 20:25	1
Batch ID: R45452	Test Name	GASOLINE RANGE OF	RGANICS BY SW8015	С	Matrix: GW	
HS23121099-01	MW-5	13 Dec 2023 08:50			18 Dec 2023 19:30	1
HS23121099-02	MW-3	13 Dec 2023 09:40			18 Dec 2023 19:44	1
HS23121099-03	MW-4	13 Dec 2023 14:40			18 Dec 2023 19:57	1
HS23121099-04	MW-2	13 Dec 2023 15:40			18 Dec 2023 20:11	1
HS23121099-06	Duplicate-01	13 Dec 2023 00:00			18 Dec 2023 20:39	1

QC BATCH REPORT

ALS Houston, US

Client:	TRC Corporation
Project:	HEP WTX to EMSU
WorkOrder:	HS23121099

Batch ID: 2049	949(0)	Ins	strument:	FID-16	М	ethod: T	PH DRO/OF	RO BY SW80 [.]	15C
MBLK	Sample ID:	MBLK-204949		Units:	mg/L	Ana	alysis Date:	18-Dec-2023	09:38
Client ID:		I	Run ID: FID-	16_454920	SeqNo: 7	744823	PrepDate:	18-Dec-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
TPH (Diesel Ran	ige)	ND	0.050						
TPH (Oil Range)		ND	0.10						
Surr: 2-Fluorobip	bhenyl	0.03914	0.0050	0.06	0	65.2	60 - 135		
LCS	Sample ID:	LCS-204949		Units:	mg/L	Ana	alysis Date:	18-Dec-2023	10:07
Client ID:		I	Run ID: FID-	16_454920	SeqNo: 7	744824	PrepDate:	18-Dec-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
TPH (Diesel Ran	ige)	0.5063	0.050	0.6	0	84.4	70 - 130		
TPH (Oil Range)		0.6117	0.10	0.6	0	102	70 - 130		
Surr: 2-Fluorobip	bhenyl	0.05618	0.0050	0.06	0	93.6	60 - 135		
LCSD	Sample ID:	LCSD-204949		Units:	mg/L	Ana	alysis Date:	18-Dec-2023	10:36
Client ID:		I	Run ID: FID-	16_454920	SeqNo: 7	744825	PrepDate:	18-Dec-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
TPH (Diesel Ran	ige)	0.5253	0.050	0.6	0	87.5	70 - 130	0.5063	3.68 20
TPH (Oil Range)		0.6891	0.10	0.6	0	115	70 - 130	0.6117	11.9 20
Surr: 2-Fluorobip	henyl	0.05718	0.0050	0.06	0	95.3	60 - 135	0.05618	1.77 20
The following sam	ples were analyze	ed in this batch: HS2 HS2	23121099-01 23121099-05	HS2312109 HS2312109		HS231210	99-03	HS23121099-	-04

Revision: 1

QC BATCH REPORT

ALS Houston, US

Client:	TRC Corporation
Project:	HEP WTX to EMSU
WorkOrder:	HS23121099

Batch ID:	R454527(0)	In	strument:	FID-20	M	iemoa.	GASOLINE F SW8015C	RANGE ORG	ANICS BY
MBLK	Sample ID:	MBLK-231218		Units:	mg/L	An	alysis Date:	18-Dec-2023	16:30
Client ID:			Run ID: FID-	20_454527	SeqNo:	7736133	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline R	ange Organics	ND	0.0500						
Surr: 4-Bro	omofluorobenzene	0.08565	0.00500	0.1	0	85.6	70 - 121		
LCS	Sample ID:	LCS-231218		Units:	mg/L	An	alysis Date:	18-Dec-2023	16:03
Client ID:			Run ID: FID-	20_454527	SeqNo:	7736131	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Gasoline R	ange Organics	0.8248	0.0500	1	0	82.5	76 - 124		
Surr: 4-Bro	omofluorobenzene	0.07735	0.00500	0.1	0	77.4	52 - 138		
LCSD	Sample ID:	LCSD-231218		Units:	mg/L	An	alysis Date:	18-Dec-2023	16:16
Client ID:			Run ID: FID-	20_454527	SeqNo:	7736132	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit		RPD %RPD Limit Qual
Gasoline R	ange Organics	0.8158	0.0500	1	0	81.6	76 - 124	0.8248	1.1 20
Surr: 4-Bro	mofluorobenzene	0.09428	0.00500	0.1	0	94.3	52 - 138	0.07735	19.7 20
The followin	g samples were analyze		23121099-01 23121099-05	HS2312109 HS2312109		HS231210)99-03	HS23121099-	-04

Revision: 1

ALS Houston, US

.

Date: 20-Mar-24

		Date. 20-Mai-
Client:	TRC Corporation	QUALIFIERS,
Project:	HEP WTX to EMSU	ACRONYMS, UNITS
WorkOrder:	HS23121099	
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the Reporting Limit	
E	Value above quantitation range	
н	Analyzed outside of Holding Time	
J	Analyte detected below quantitation limit	
Μ	Manually integrated, see raw data for justification	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL/SDL	
Acronym	Description	
DCS	Detectability Check Study	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitaion Limit	
SD	Serial Dilution	
SDL	Sample Detection Limit	
TRRP	Texas Risk Reduction Program	
Unit Reported		
mg/L	Milligrams per Liter	

ALS Houston, US

Date: 20-Mar-24

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L22-90-R2	31-Mar-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston	, US				Date: 20-Mar-24
Work Order ID: Client Name:	HS23121099 TRC-AUS			e/Time Received: eived by:	Sample Receipt Checklist <u>15-Dec-2023 09:35</u> <u>Corey Grandits</u>
Completed By:	<i>/S/ Corey Grandits</i> eSignature	16-Dec-2023 11:44 Date/Time	Reviewed by: //	S/ <i>Nieka.Carson</i> eSignature	18-Dec-2023 10:13 Date/Time
Matrices:	<u>w</u>		Carrier name	<u>FedEx</u>	
Custody seals in Custody seals in VOA/TX1005/T Chain of custod Chain of custod Samplers name Chain of custod Samples in prop Sample contain Sufficient samp All samples reco	y signed when relinquished and present on COC? y agrees with sample labels? per container/bottle?	aled vials? I received?	Yes Yes Yes Yes Yes Yes Yes Yes	No	Not Present Not Present Not Present Not Present 1 Page(s) COC IDs:304980
	/Thermometer(s):		3.2UC/3.1C		IR31
Cooler(s)/Kit(s): Date/Time sam	ple(s) sent to storage:		Lg Blue 12/16/23		
	als have zero headspace? eptable upon receipt?		Yes 🔽 Yes 🔽 Yes 🚺	No 🚺 No 🚺 No 🔽	No VOA vials submitted
Login Notes:	Trip Blank received, not listed of	on COC and was placed	on hold.		
Client Contacte	d:	Date Contacted:		Person Co	ntacted:
Contacted By:		Regarding:			
Comments: Corrective Actio	Dn:				

ed by OCD: 4/2	292024 3:13:33 PM +1 513 733 5336 Everett, WA +1 425 356 2600	Fort Collins, CO +1 970 490 1511 Holland, Ml +1 616 399 6070	Chain of Custody Fo	Middlete +1 717 9	30 5656 +1 610 948 4903 www.PA 5alt Lake City, UT	South Chi <mark>Pagan204</mark> +1 304 356 3168 York, PA +1 717 505 5280
()	(L3)	F	COC ID: 30498(ALS Project Manager:)	ALS Work Order #:	
	Justomer Information		Project Information	Para	meter/Method Request for	Analysis
Purchase Order	izer	Project Name	1025 MAX 0 EMBC	· · · · · · · · · · · · · · · · · · ·	V(6015 GPO) - (31 VOA Hus)	
· · · · · · · · · · · · · · · · · · ·			Se 17 75	1	VERO E DROMRODE (G.VO	· · · · · · · ·
Work Order		Project Number		B 00.02 0800 5	an fuidh an an straight an theory. An fuidh an straight an theory	
Company Name	*RC Control altimation	Bill To Company	1985 Corporation	C j		
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City/State/Zip 1		City/State/Zip		G		
Phone		Phone	(5)2)-09-0080	ы П. В .		
Fax	(F17) 97 9-87 50 (F17) (Fax -	(712) 375-3750			RANDA INA INA INA INA INA INA INA INA INA IN
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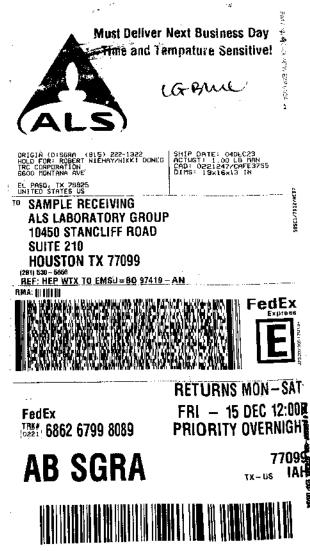
RIGHT SOLUTIONS | RIGHT PARTNER

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ALS 10450 Stancilff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUS DY SEAL Date: 12/14/ Three 14 56 Name: Karet Machine Company: THC	Saal Brokan By: Say) Datas 121 45 123
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LG BULL ---- 1 5 2023

ALS 10450 Stancliff Rd., Suite 210	CUSTODY SEAL	Seal Broken By:
Houston, Texas 77099 Tel. +1 281 530 5658 Fax. +1 281 530 5687	Company:	12115123



Page 18 of 18

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>TRC

Analytical Data Review Checklist

Site: WTX (Klein Ranch)	Laboratory: ALS (Houston, TX)
Location: Southwest of Monument, NM	Lab Report #: HS23121099
Client Name: HEP	Reviewer: A. Eljuri
Project #: 584282	Peer Reviewer: L. Denly
	Review Date: 3/18/2024

Analytical Method(s):	Matrices Sampled:	Sample Collection Date(s):
TPH GRO by Method SW8015C; TPH DRO/ORO by Method SW8015C	Groundwater, aqueous quality control (QC) sample	December 13, 2023

Sampling Objective(s):

Analyze groundwater for routine monitoring.

Sample IDs (List IDs or attach COC):

Refer to data package sample summary.

Revie	ew Item or Question	Υ	Ν	NA	Comments
Chain-	of-Custody and Data Completeness				
1	Was COC appropriately completed?		x		The sample time for the equipment blank (EB-12-13-23) was not listed on the COC. It was added to the Sample Summary page as 17:30.
2	Did the laboratory report correct sample IDs?	Х			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?		х		See Item 1.
4	Are results reported for all analytical methods requested?	Х			The laboratory reported TPH ORO for method SW8015C, which is not offered for accreditation.
5	Are results reported for all samples submitted for analysis?	Х			
6	Were the requested analytical methods used?	Х			
7	Are results reported for all target analytes, but no additional analytes?	х			TPH ORO instead of TPH MRO per the COC was reported for all samples. The laboratory confirmed TPH ORO and TPH MRO report the same ranges.
8	SOIL/SEDIMENT ONLY: Were soil/sediment results reported on a dry weight basis?			х	
9	If requested, were detected results below reporting limit (i.e., "J" values) reported?			х	
10	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	х			
Sampl	e Preservation				
11a	Did samples arrive at the laboratory appropriately preserved?	х			
11b	Was the cooler temperature between 0-6°C?	х			
11c	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	х			TPH GRO was preserved with hydrochloric acid.
11d	SOIL/SEDIMENT ONLY: Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?			х	

>TRC

Analytical Data Review Checklist

Revi	ew Item or Question	Υ	Ν	NA	Comments
12	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	х			
13	Were any issues noted by the laboratory upon receipt?	х			The trip blank was provided in the cooler, but it was not required to be analyzed per the COC.
14a	AIR ONLY: Were canisters received with an acceptable vacuum?			x	
14b	AIR ONLY: Were the RPDs between the initial and final canister flow controller calibrations <20?			x	
Holdir	ng Times				
15	Were sample preparation and analysis holding time requirements met?	х			
Repor	ting Limits				
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	х			All non-detect results had reporting limits below project criteria.
17	Were dilutions performed? If so, note sample(s) and parameters(s) affected and the dilution factor(s).		x		
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?			x	
	Results				•
Blank	S Were target analytes detected in the method				
19	blanks? If yes, list contaminants, concentrations detected and associated samples.		х		
20	Does each analytical or preparation batch have its own method blank?	х			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		x		
22	Are there any potential false positive results based on questions 19 and/or 21?		х		
Labo <u>r</u>	atory Control Spikes		·		
23	Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples.	х			
24	Does each analytical or preparation batch have its own LCS?	х			
25	Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples.	х			

TRC

Analytical Data Review Checklist

Page 208 of 232

Review Item or Question		Υ	Ν	NA	Comments
Matrix	Spikes				
26	Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.			x	
27	Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was spiked.			x	
Surrog	gates			•	
28	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.	х			
Duplic	ates Note: If not performed on a proj	ect sam	iple, eval	luation i	s not required.
29	Are laboratory duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			x	
30	Were field duplicate criteria met? If no, list analytes affected, the RPD and/or absolute difference (as applicable), and the associated samples.	x			Field duplicate pair Duplicate-01 and MW-4 met project criteria.
Do the	e Data Make Sense?	ļ			
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences) that have not already been addressed above? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		х		
32	Were any other potential data quality issues identified? If yes, describe issues.		х		
33	Do any results look questionable? If yes, ASK THE LAB.		х		
34	Has the EDD been compared to the lab report?			х	
Additic None.	onal Comments:	1	1		

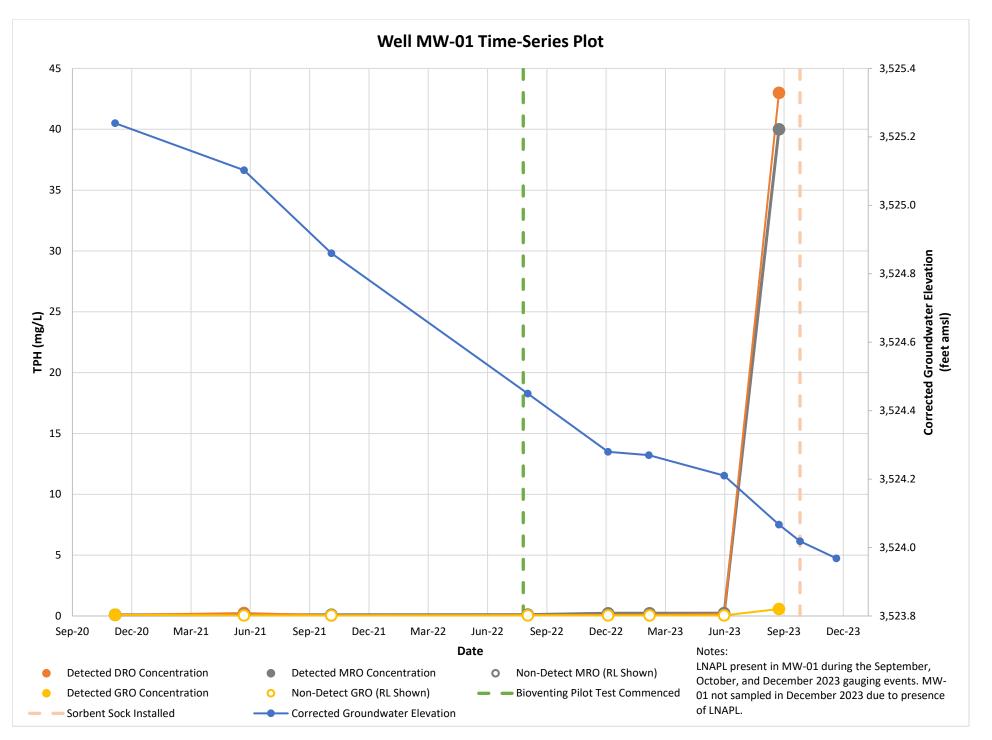
Notes:

Reference: EPA Superfund Contract Laboratory Program (CLP) National Functional Guidelines (NFGs) for Data Review (November, 2020)

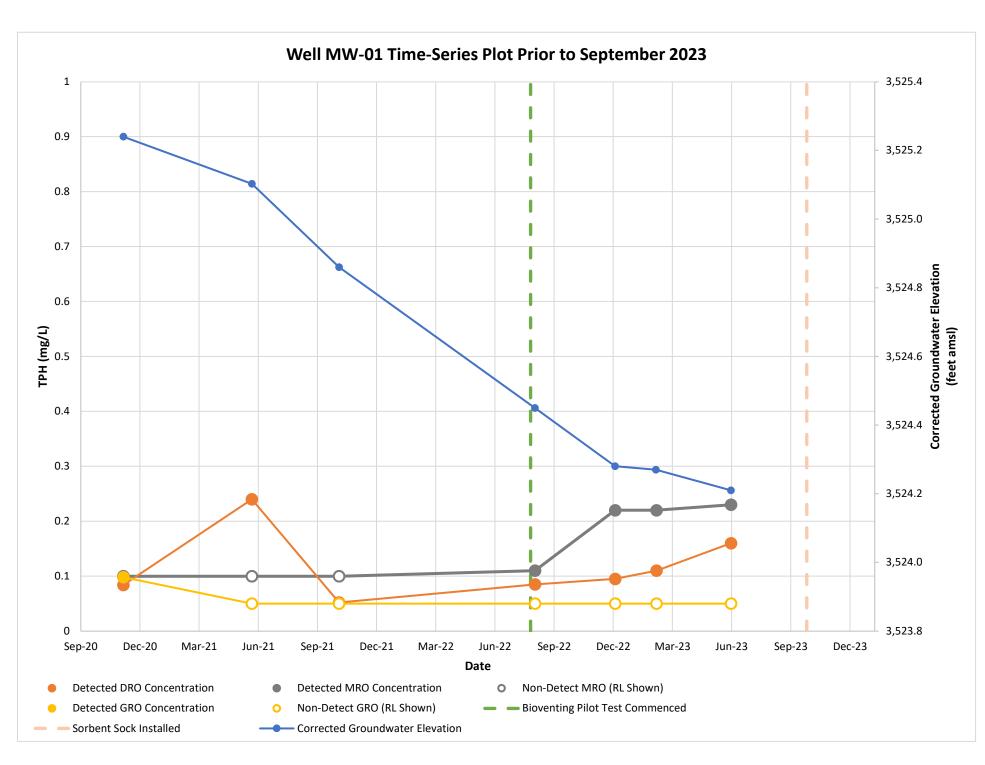
Abbreviations:

COC = Chain-of-Custody DRO = Diesel Range Organics EDD = Electronic Data Deliverable GRO = Gasoline Range Organics LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate MRO = Motor Range Organics MS/MSD = Matrix Spike / Matrix Spike Duplicate NELAP = National Environmental Laboratory Accreditation Program ORO = Oil Range Organics QAPP = Quality Assurance Project Plan QC = Quality Control %R = Percent Recovery RPD = Relative Percent Difference = 100% x |(A-B)/((A+B)/2)| TPH = Total Petroleum Hydrocarbon

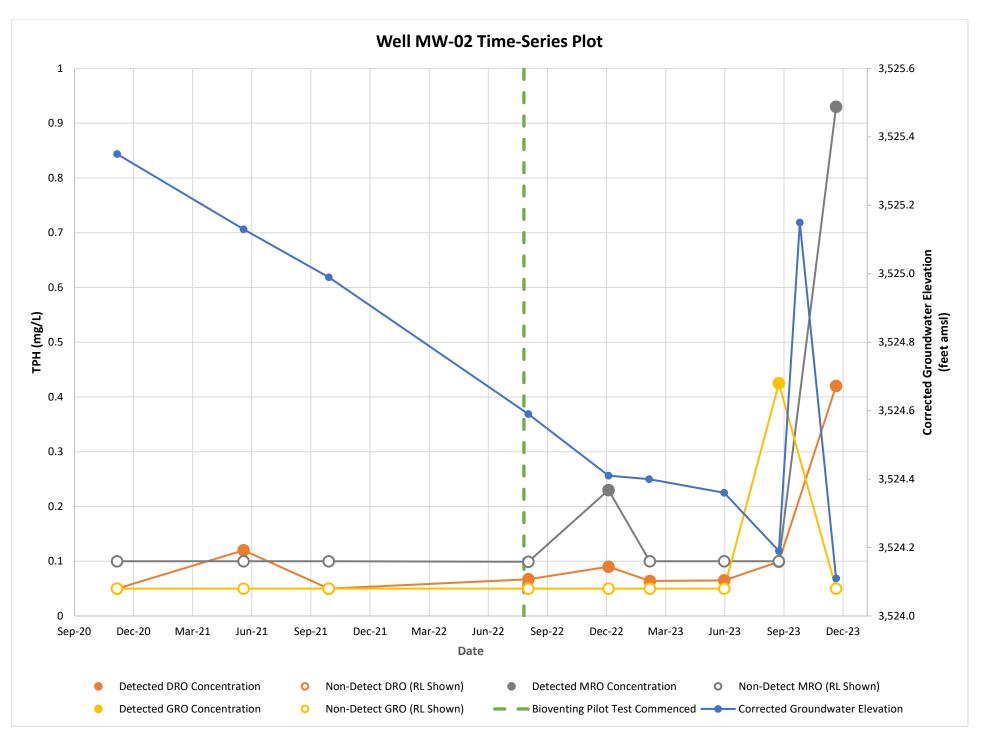
ATTACHMENT D – GROUNDWATER ELEVATION AND TPH PLOTS



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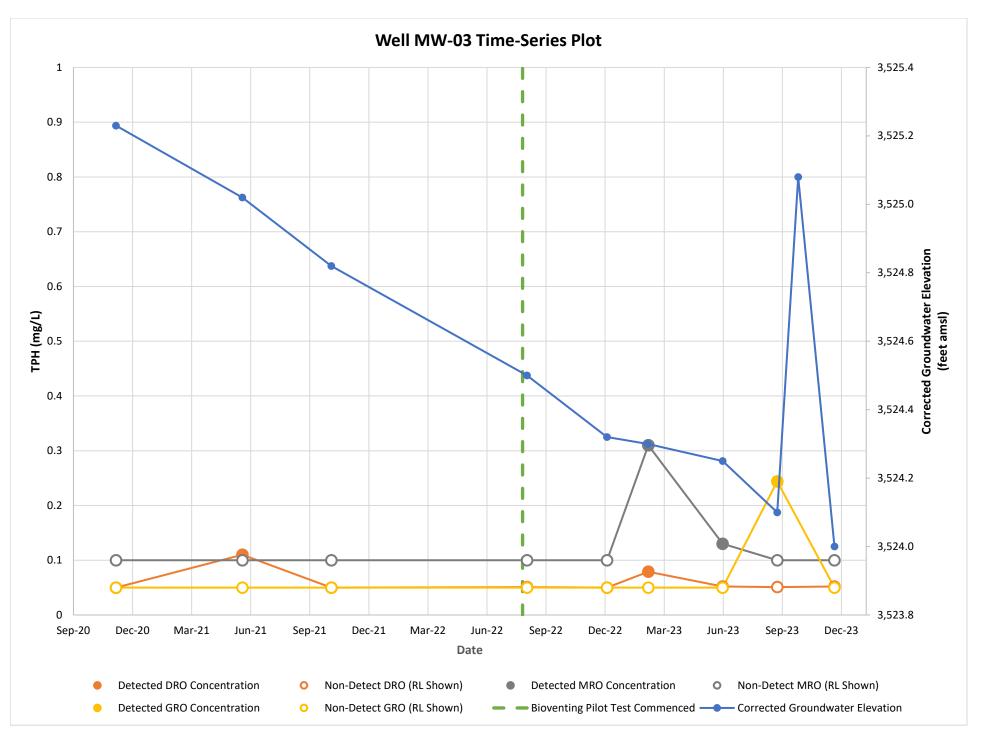
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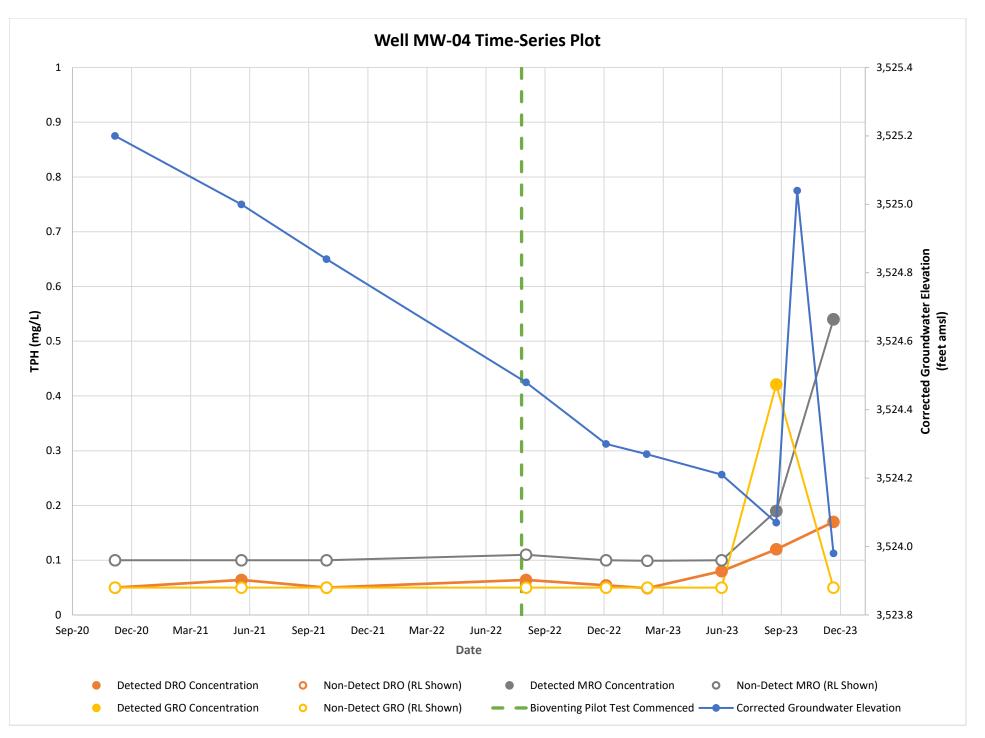
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Page 213 of 232



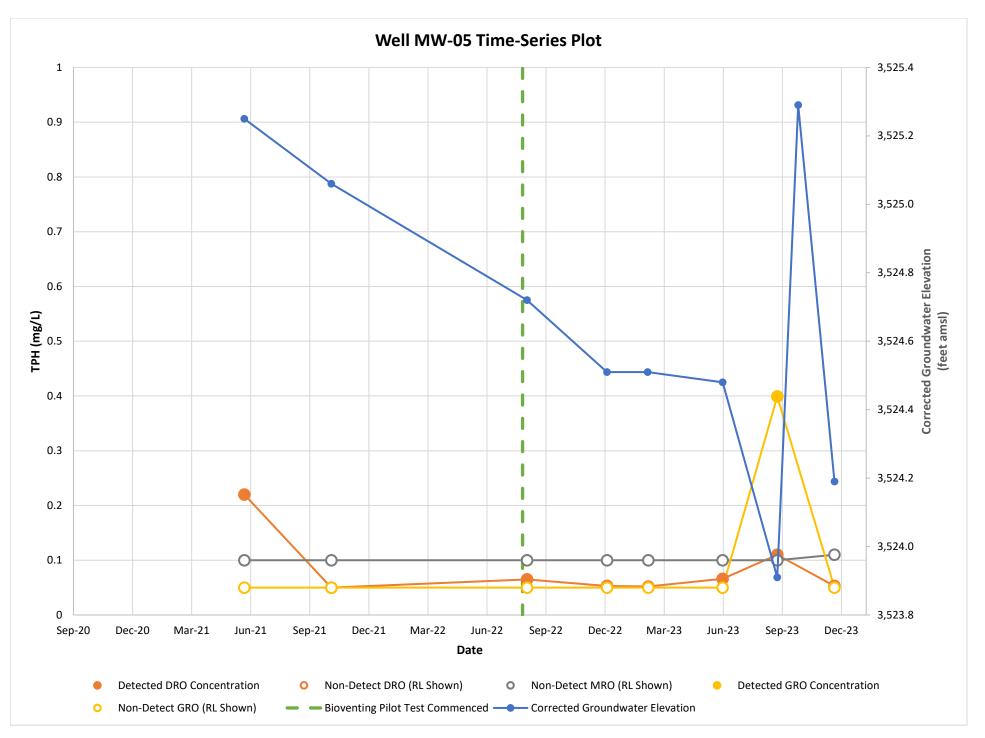
Page 214 of 232



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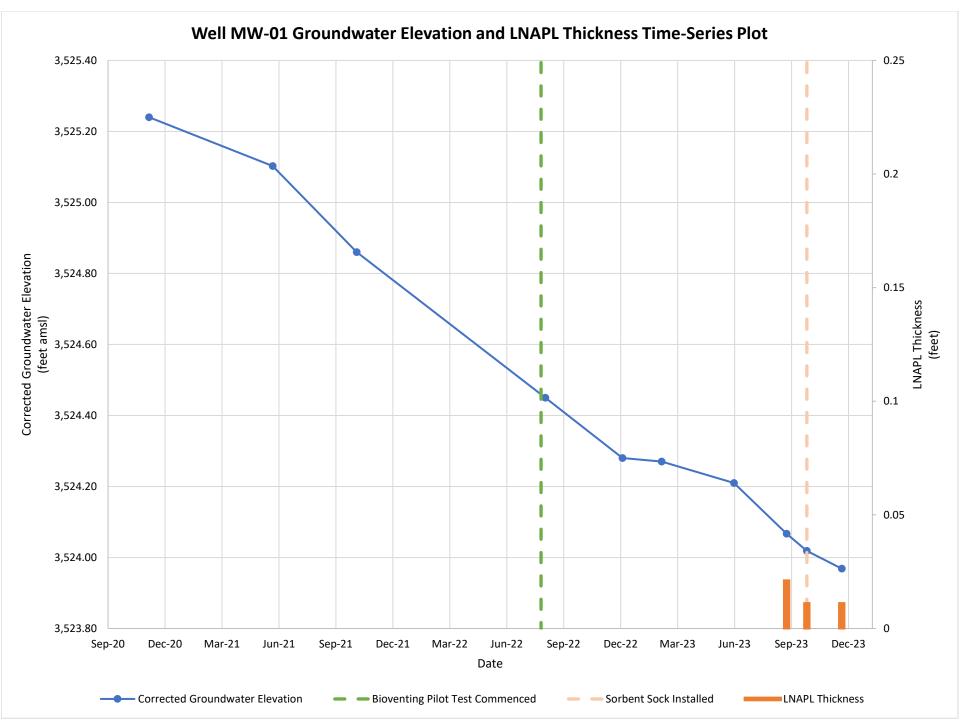
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Page 215 of 232



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Page 216 of 232

ATTACHMENT E – BIOVENTING BORING AND WELL COMPLETION LOGS

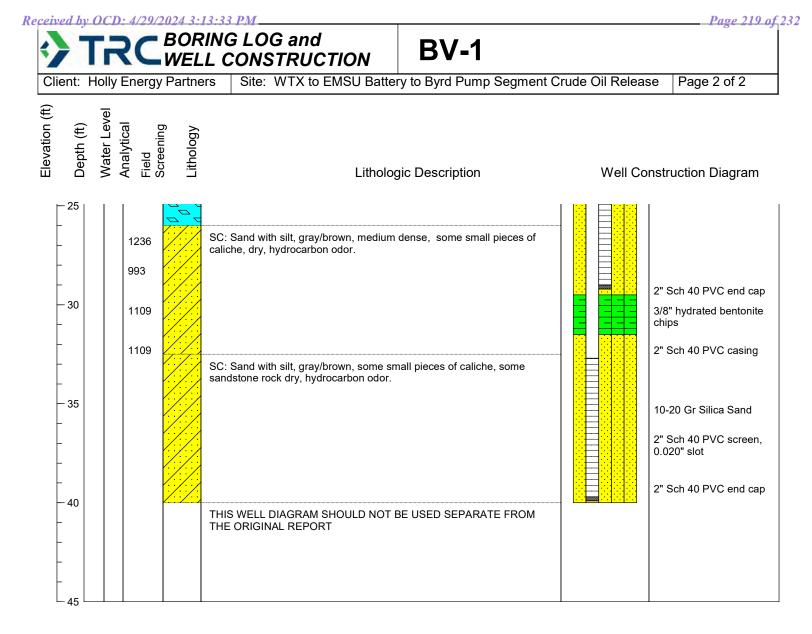
TRCBORING LOG and WELL CONSTRUCTION

ION DV	- 1	
ient: Holly Energy Partners		
Site: WTX to EMSU Battery to Byrd Pump Segment Crude Oil Release		
Address: Klein Ranch, Monument, NM		
	Permit #:	NA
:J. Miles, C. Rudy	TRC Site	Rep.:J. O'Neal
	TRC Rev	/iewer: J. Ward
epth (ft bgs):40	X-Y Coor	rd. System:DMS
	Latitude:	32°35'2.15"N
	Longitude	e:103°19'3.04"W
ounds	1	Elevation Datum: Not Surveyed
opm		Ground Elevation (ft): Not Surveyed
3V-1D: 39.90		Well Elevation (ft): Not Surveyed
	0	Well Measuring Point: NA
10.70, DV-1D. 32.4	0	Depth to Water (ft toc): NA
7		Date/Time: NA
ete Pad / 10" Steel (Cover	1
	t Crude Oil Release :J. Miles, C. Rudy epth (ft bgs):40 ounds opm 3V-1D: 39.90 16.70; BV-1D: 32.4	t Crude Oil Release t Crude Oil Release Start Dat Finish Da Permit #: :J. Miles, C. Rudy t Crude Oil Release Permit #: TRC Site TRC Rev X-Y Cool Latitude: Longitude ounds ppm 3V-1D: 39.90 16.70; BV-1D: 32.40

RV_1

Water Level Analytical Field Screening Depth (ft) Lithology Lithologic Description Well Construction Diagram C Topsoil: Fill Material, sand, red brown, medium grain, dry, no Concrete Pad ヘ hydrocarbon odor 3/8" hydrated 2.9 bentonite chips 2" Sch 40 PVC 1.8 casing -5 10-20 Gr Silica Sand SP: Fine sand, red brown, poorly graded, dry, no hydrocarbon odor. 1.6 2.9 Calcified: Caliche, gray/white, hard, dry, no hydrocarbon odor. 2" Sch 40 PVC screen, SC: Fine sand with silt, brown, loose, dry, no hydrocarbon odor. 0.020" slot 10 121 SC: Fine sand with silt, brown, loose, dry, light hydrocarbon odor. 330 Calcified: Caliche, grey, friable, hard, dry, hydrocarbon odor. 423 612 - 15 chips 653

2" Sch 40 PVC end cap 3/8" hydrated bentonite 2" Sch 40 PVC casing SC: Fine sand, loose, well sorted, dark olive, poorly graded, dry, 831 hydrocarbon odor. Calcified: Caliche, gray/white, friable, hard, dry, hydrocarbon odor. - 20 378 2" Sch 40 PVC screen, 0.020" slot 378 10-20 Gr Silica Sand SC: Fine sand with silt, medium dense, well graded, gray brown, dry, 742 hydrcarbon odor. Calcified: Caliche, white, friable, hard, dry, hydrocarbon odor. 25



Client: Holly Energy Partners		TRC Project #: 525769		
Site: WTX to EMSU Battery to Byrd Pump Segment Crude Oil Release			te: 05/03/2023	
Address: Klein Ranch, Monument, NM			ate: 05/03/2023	
Project: Bioventing Well Install		Permit #	: NA	
Drilling Company:Talon LPE	Drilling Crew: J. Miles, C. Rudy	TRC Site	e Rep.:J. O'Neal	
Drilling Method: Hollow Stem Aug	er	TRC Re	viewer: J. Ward	
Boring Diameter (in): 10	Boring Depth (ft bgs):40	X-Y Coo	ord. System:DMS	
Sampling Method: Continuous		Latitude	: 32°35'2.17"N	
Blow Count Method: N/A		Longitud	le:103°19'2.81"W	
Field Screening Parameter: Volati	le Organic Compounds		Elevation Datum: Not Surveyed	
Meter: MiniRAE 5000	Units: ppm		Ground Elevation (ft): Not Surveyed	
Well Depth (ft bgs): BV-2S: 13.25	; BV-2M: 31.00; BV-2D: 40.10		Well Elevation (ft): Not Surveyed	
Estimated Casing Length (ft): BV-	2S: 3.75; BV-2M: 16.50; BV-2D: 34.3	0	Well Measuring Point: NA	
		~	Depth to Water (ft toc): NA	
Screen Length (ft): BV-2S: 9; BV-	2M: 14; BV-2D: 5		Date/Time: NA	
Surface Completion:Flush Mount	20" Round Concrete Pad / 10" Steel (Cover		
Well Development: NA				

RV_2

Water Level Analytical Field Screening Depth (ft) Lithology Well Construction Diagram Lithologic Description 0 Topsoil: Fill Material, fine sand, red brown, dry, no hydrocarbon odor Concrete Pad 3/8" hydrated 0.5 bentonite chips 0.7 2" Sch 40 PVC casing -5 SP: Fine sand, grey, loose, poorly graded, dry, no hydrocarbon odor. 10-20 Gr Silica Sand 1.1 3.7 2" Sch 40 PVC screen, CL: Sandy clay, olive, medium hardness, non-plastic, dry, hydrocarbon 0.020" slot 10 odor. 71.0 CL: Silty clay with some fine sand, caliche layers, few sandstone pieces, green, medium hardness, low plasticity, dry, hydrocarbon odor. 261 2" Sch 40 PVC end cap Calcified: Caliche, hard, grey and white, hydrocarbon odor. 254 3/8" hydrated bentonite - 15 chips 324 2" Sch 40 PVC casing 333 - 20 682 2" Sch 40 PVC screen, 0.020" slot

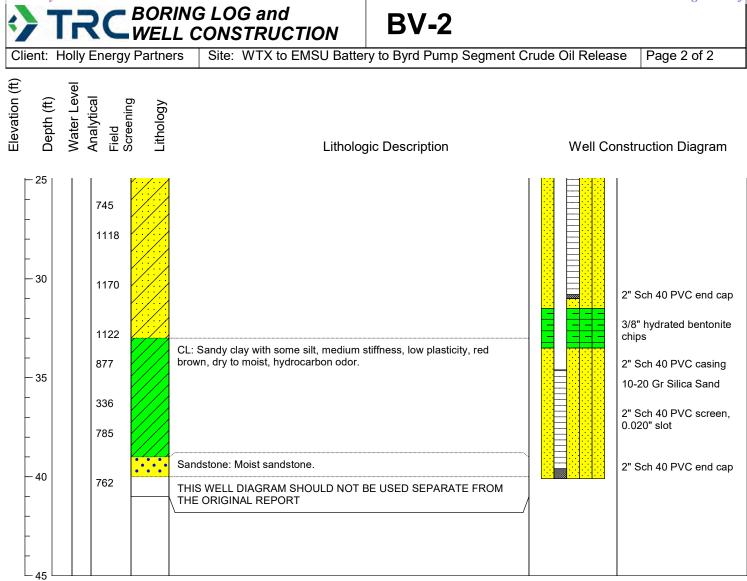
SC: Silty sand interbedded with layers of caliche, grey-brown, dry, hydrocarbon odor.

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714

25

10-20 Gr Silica Sand

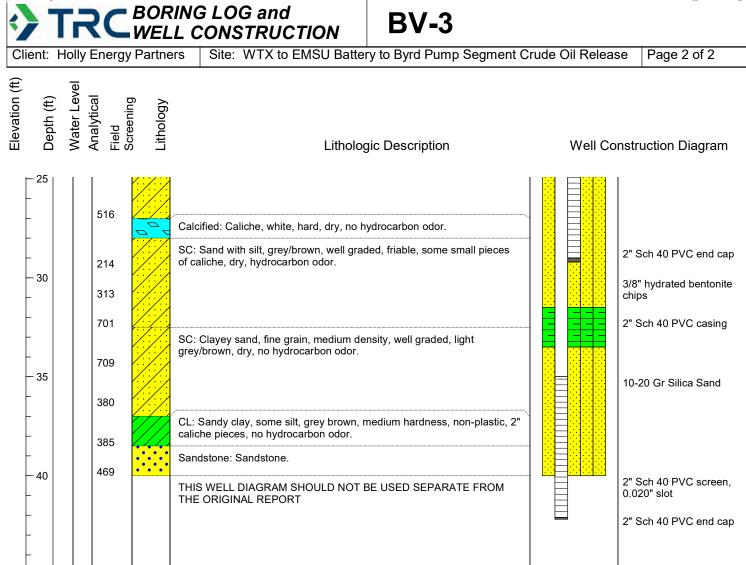


BORING LOG and

	DG and STRUCTION	BV	-3		
Client: Holly Energy Partners			TRC Proj	ect #: 525769	
Site: WTX to EMSU Battery to Byrd P	ump Segment Crude O	il Release			
Address: Klein Ranch, Monument, NN	Λ	Finish Da	te: 05/05/2023		
Project: Bioventing Well Install			Permit #:	NA	
Drilling Company:Talon LPE	Drilling Crew: J. Miles, 0	C. Rudy	TRC Site	Rep.:J. O'Neal	
Drilling Method: Hollow Stem Auger	1		TRC Rev	iewer: J. Ward	
Boring Diameter (in): 10	Boring Depth (ft bg	s):40	X-Y Coor	d. System:DMS	
Sampling Method: Continuous			Latitude:	32°35'1.99"N	
Blow Count Method: N/A			Longitude	e:103°19'2.98"W	
Field Screening Parameter: Volatile C	Organic Compounds			Elevation Datum: Not Surveyed	
Meter: MiniRAE 5000	Units: ppm			Ground Elevation (ft): Not Surveyed	
Well Depth (ft bgs): BV-3S: 14.20; B	/-3M: 29.20; BV-3D: 42.	.30		Well Elevation (ft): Not Surveyed	
Estimated Casing Length (ft): BV-3S:			า	Well Measuring Point: NA	
		-50. 54.00	,	Depth to Water (ft toc): NA	
Screen Length (ft): BV-3S: 9; BV-3M	: 12; BV-3D: 7		Date/Time: NA		
Surface Completion:Flush Mount 20" Well Development: NA	Round Concrete Pad/ 1	0" Steel C	over		
Depth (ft) Water Level Analytical Field Screening Lithology	Lithologic	Descriptio	on	Well Construction Diagram	

		Topsoil: Fill Material, sand, red brown, medium grain, dry, no hydrocarbon odor		Concrete Pad 3/8" hydrated bentonite chips 2" Sch 40 PVC casing
-5 - - - - - 10	1.1 2.8 2.7 6.4	SP: Fine sand, grey, poorly grade, dry, no hydrocarbon odor. Calcified: Caliche, grey/white, hard, dry, no hydrocarbon odor. SP: Fine sand, loose, poorly graded, olive dry, no hydrocarbon odor.		10-20 Gr Silica Sand 2" Sch 40 PVC screen, 0.020" slot
- - - 15 -	7.8 1.4 1.5	CL: Sandy clay, hard, non-plastic, olive, dry, no hydrocarbon odor.		2" Sch 40 PVC end cap 3/8" hydrated bentonite chips 2" Sch 40 PVC casing
- - - 20	2.2 1.7 4.6	hydrocarbon odor.		2" Sch 40 PVC screen, 0.020" slot
25	44.2 447	SC: Sand with silt, well graded, brown, friable, some small pieces of sandstone, dry, no hydrocarbon odor.		10-20 Gr Silica Sand





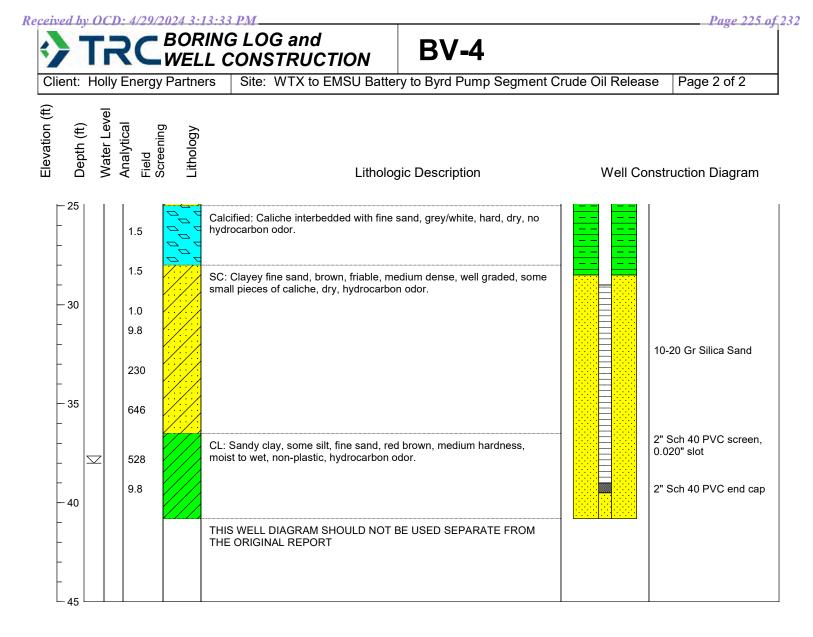
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					-		
	olly Energ				-	ct #: 525769 : 05/03/2023	
	Klein Rand		o Byrd Pump Segment Crude O	ni Release		e: 05/03/2023	
	Bioventing				Permit #: N		
	ompany:Ta		Drilling Crew:J. Miles,	C Rudy		Rep.:J. O'Neal	
	ethod: Hol		-			ewer: J. Ward	
•	ameter (in		Boring Depth (ft bg	s):40.8		. System:DMS	
-	Method: C	·	S	-	Latitude: 32	2°35'2.06"N	
ow Cou	nt Method	: N/A			Longitude:	103°19'2.03"W	
eld Scre	ening Par	ameter: \	/olatile Organic Compounds		E	Elevation Datum: Not Surveyed	
eter: M	iniRAE 50	00	Units: ppm			Ground Elevation (ft): Not Surveyed	1
ell Dept	th (ft bgs):	39.50				Well Elevation (ft): Not Surveyed	
stimated	d Casing L	ength (ft)	: 28.70			Well Measuring Point: NA	
	ength (ft):	• • • •				Depth to Water (ft toc): 38.00	
				401101		Date/Time: 05/03/23	
	Completion elopment:		ount 20" Round Concrete Pad /	10" Steel (Cover		
	•						
(ft) Levi	Analytical Field Screening	gy					
Depth (ft) Water Lev	alyti Id een	Lithology					
De	Ana Fiel Scr	Lit	Lithologic	Descriptio	on	Well Construction Diagr	am
-	3.1 1.2		Some small roots.				
-5			No recovery.				
	0.8		SC: Fine sand with silt, red brown, well s odor.	sorted, dry, n	o hydrocarbon		
- 10			No recovery.				
-	1.0		SC: Fine sand with silt, red brown, well s odor.	sorted, dry, n	o hydrocarbon		
	1.4	<mark>lelele</mark> (Sandstone: Sandstone, light grey, dry, n	o hydrocarbo	on odor.		
			No recovery.				
- 15	2.0		SC: Sand with silt, light grey/brown, fine nydrocarbon odor.	grain, mediu	ım dense, dry, ı	no - 3/8" hydrated be chips	entonite
	0.7		Sandstone: Sandstone and caliche, hard	d, dry, light gi	rey, no hydroca	arbon	_
	0.7		odor. Calcified: Caliche, hard, light grey, chalk	xy, no hydroc	arbon odor.	2" Sch 40 PVC o	casing
_ 20							
	0.6						
	1.0						
F 1							
-	1.0		SC: Fine sand with silt, brown, loose, dr	y, no hydroca	arbon odor.		



ATTACHMENT F – WASTE MANIFESTS

UNIFORM HAZARDOUS	1. Generator ID Number	2. Page 1 of 3.	Emergency Response Phone 575-748-8972	and the second se	st Tracking N		0	JJK
WASTE MANIFEST 5. Generator's Name and Maili	ng Address	Ger				333	0 4	JJT
	Address HOLLY ENERGY PARTNER 1802 W MAIN ST	RSLP	erator's Site Address (if different HCLL _NEW)		OX RD			
	ARTESIA, NM 88240		MONU	MENT NM				
Generator's Phone: 6. Transporter 1 Company Nam								_
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the second second second second second			U.S. EPA IE	Number			
7. Transporter 2 Company Nam	horse			U.S. EPA ID	Number		-	-
				1				
8. Designated Facility Name an	d Site Address CHARTER WASTE LANE	DEIL		U.S. EPA ID	Number		_	
	12035 W MURPHY							
10	ODESSA, TX 79769 (432) 381-4722		1	H2158			
Facility's Phone:	an (including Deceas Objection Name - Hansed Object	ID Number	40 Container	T	1	-	_	-
9a. 9b. U.S. DOT Description	on (including Proper Shipping Name, Hazard Class any))	s, ID Number,	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Coo	des
1.	Carry States and States		inc. Type			100		T
PETROLEUM	ONTAMNATED SOLIDS			14	da			+
APPROVAL #	3412.24 150-				Un.	UT5 459	1	100
2.				1. 23.	1000			11
				1.1.2.1				1
3.	Not as an international second							-
				-				1
- 1. · · · · · ·								
4.								1
1								+
marked and labeled/placar	REPUE R'S CERTIFICATION: I hereby declare that the co ded, and are in all respects in proper condition for	transport according to applicable	Ily and accurately described abo	ve by the proper s mental regulations	hipping name s. If export sh	e, and are class	sified, pack	kaged, nary
5. GENERATOR'S/OFFERO marked and labeled/placar Exporter, I certify that the c I certify that the waste mini	REPUE R'S CERTIFICATION: I hereby declare that the co ded, and are in all respects in proper condition for ontents of this consignment conform to the terms o mization statement identified in 40 CFR 262.27(a)	ontents of this consignment are fu transport according to applicable of the attached EPA Acknowledgm (if I am a large quantity generator	lly and accurately described abo international and national govern ent of Consent.) or (b) (if I am a small quantity g	mental regulations	hipping name s. If export sh	pment and I a	am the Prin	nary
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UNIFORM HAZARDOUS	1. Generator ID Number	2.1 age 1 61 0. 2.	575-748-90	12		Tracking Nu	and the second	2 J.	JK
5. Generator's Name and Mail	ing Address	Gene	ator's Site Address (i	if different that	Sec. Sec.	See See See	000		
	HOLLY ENERGY PARTNER 1802 WMAIN ST	to un	FOLLYC	NERSON	ADD				
	ARTESIA, NM 88240		1	MUNON	ENT, NM				
Generator's Phone:					U.S. EPA ID				
6. Transporter 1 Company Na					0.0. LFAID	Mamber			
wile	norst		a second second		U.S. EPA ID	Number	-		-
7. Transporter 2 Company Na	me				1 134				
8. Designated Facility Name a	IN SITE Address CHARTER WASTE LAND				U.S. EPA ID	Number		12	
	12035 W MURPHY	and the second							
di-		432) 381-4722				H2158			
Facility's Phone:			-	1	1	1			
	tion (including Proper Shipping Name, Hazard Class	s, ID Number,	10. Containe		11. Total Quantity	12. Unit Wt./Vol.	· 13.1	Waste Code	s
HM and Packing Group (il	any))		No.	Туре	quality	1101.			-
1.	ON-CONTAMANTED WATER/GR	OF INFOWATES			C	1			
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Page 229 of 232

	UNIFORM HAZARDOUS WASTE MANIFEST	2. Page 1 of 3. El	24201010.00	102	02		3339 JJK
	5. Generator's Name and Mailing Address HOLLY ENERGY PARTNERS LP 1802 WMAIN ST ARTESIA, NM 88240 Generator's Phone:	Gene	rator's Site Address		MADDO	88240	
8	6. Transporter 1 Company Name				U.S. EPA ID	Number	
	7. Transporter 2 Company Name				U.S. EPA ID I	Number	
	8. Designated Facility Name and Site Address CHARTER WASTE LANDFILL				U.S. EPA ID I	Number	
	12035 W MURPHY	381-4722			1	142168	
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Numi and Packing Group (if any))	ber,	10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
GENERATOR	1. EXCAVATED HYDROCARBON CONTAMNATED SOIL APPROVAL # 3412 24 1507				4	01	175 501 1
- GENEI	2.					-	
	3.						
	4.	1. A.					
	14. Special Handling Instructions and Additional Information						
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: 1 hereby declare that the contents of marked and labeled/placarded, and are in all respects in proper condition for transport Exporter, I certify that the contents of this consignment conform to the terms of the atta I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if 1 am a Generators/Offerors Printed/Typed Name	t according to applicable ached EPA Acknowledgm	international and ha	monal governi	lental regulations	hipping name, a	and are classified, packaged, nent and I am the Primary Month Day Yea
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_	Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials		Date leav	ving U.S.:			
ORTE	Transporter 1 Printed/Typed Name	Signature I	lug	2			Month Day Year
TRANSPORTER	Transporter 2 Printed/Typed Name	Signature				,	Month Day Year
1	18. Discrepancy				Partial Re	isation	Full Rejection
l	18a. Discrepancy Indication Space Quantity Type		Residue Manifest Reference	ce Number:			
CILITY	18b. Alternate Facility (or Generator)				U.S. EPA ID	Number	
DESIGNATED FACILITY	Facility's Phone: 18c. Signature of Alternate Facility (or Generator)		x				Month Day Yea
DESIGN	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste 1. 2.	e treatment, disposal, and 3.	recycling systems)		4.		
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials c Printed/Typed Name	covered by the manifest e Signatur	xcept as noted lighte	em 18a)		Month Day Year
EP/	Form 8700-22 (Rev. 12-17) Previous editions are obsolete.	17. 190			DESIGN	ATED FAC	LITY TO GENERATO

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UNIFORM HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emergency Response 675-748-8	e Phone 972	4. Manifest	Tracking N	The second se	ຊີປ	JK
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	ARTESIA, NM 88240	1		ŕ	MONUA	ENT NM				
Generator's Phone:		e				U.S. EPA ID			0	
. Transporter 1 Company Nar						1				
. Transporter 2 Company Nam	Ild horse				- 1 · · ·	U.S. EPA ID	Number	1.1		7
. Transporter 2 company rean						1				
3. Designated Facility Name an	nd Site Address					U.S. EPA ID	Number			
	CHARTER WASTE 12035 W MURPHY									
	ODESSA, TX 797		4_4799			1	H2158			
Facility's Phone:			-							-
	ion (including Proper Shipping Name, Ha	zard Class, ID Number,		10. Contai	1	11. Total Quantity	.12. Unit Wt./Vol.	· 13. V	laste Code	es
HM and Packing Group (if a	any))			No.	Туре	Quantity	VV(./ VOI.	21		1
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and the second s	AVDROCARBON CONTAM	INATED SOIL				-4	Kei a	UT5 301		
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4. Special Handling Instruction		that the contants of this	e consignment	USTOMER # 33	escribed abov	e by the proper s	shipping nam	e, and are clas	sified, pack	kaged,
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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

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

CONDITIONS

Action 336869

CONDITIONS					
Operator:	OGRID:				
HOLLY ENERGY PARTNERS - OPERATING, LP	282505				
1602 W. Main St.	Action Number:				
Artesia, NM 88210	336869				
	Action Type:				
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)				

CONDITIONS		
Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Annual Groundwater Monitoring Report for WTX to EMSU Battery to Byrd Pump Segment: Content Satisfactory 1. Continue to conduct groundwater monitoring at the site for all wells on a quarterly basis, as well as gauging LNAPL. 2. Propose an abatement plan to OCD if LNAPL is persistent in wells, as absorbent socks are not considered an abatement method. 3. Submit the 2024 Groundwater Monitoring report with recommendations to OCD for an abatement path forward by May 1, 2025.	6/11/2024