Quarterly Groundwater Monitoring Report – March 2019

Coleman Oil Company Facility
3 East Chehalis Street
Wenatchee, Washington

Prepared for:

Coleman Oil Company
335 Mill Road
Lewiston, Idaho 83501

May 28, 2019

Prepared by:

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Prepared by:

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Acronyms

amsl	above mean sea level
bgs	below ground surface
BNSF	Burlington Northern – Santa Fe Railroad
COC	Chemical of Concern
Coleman Oil	Coleman Oil Company
DRPH	diesel range petroleum hydrocarbons
Ecology	Washington Department of Ecology
EDB	1,2-dibromoethane
EDC	1,2-dichloroethane
EEC	Environmental Engineering & Consulting, Inc.
EPA	Environmental Protection Agency
GRPH	gasoline range petroleum hydrocarbons
HydroCon	HydroCon Environmental LLC
µg/L	micrograms per liter
LCS/LCSD	Laboratory Control Sample/ Laboratory Control Sample Duplicates
LNAPL	light nonaqueous-phase liquid
MDL	method detection limit
MRL	method reporting limit
MTBE	Methyl tert-butyl ether
MTCA	Model Toxics Control Act
ORPH	oil range petroleum hydrocarbons
PAHs	polynuclear aromatic hydrocarbons
PID	photoionization detector

EXECUTIVE SUMMARY

This Quarterly Groundwater Monitoring Report provides the scope and findings of groundwater monitoring that was performed in March 2019. This monitoring event was performed to assess groundwater quality at the Site following the completion of the Supplemental Remedial Investigation (SRI) performed last year as well as to document the direction and gradient of groundwater flow and groundwater contaminant levels.

Quarterly groundwater monitoring will continue for the foreseeable future until a reduced monitoring schedule is approved by the Washington State Department of Ecology (Ecology). Quarterly groundwater monitoring includes the following tasks and reporting:

- Collect depth to water and product thickness measurements at the Site monitoring wells while the pumping system is active.
- Turn off the pumps at monitoring wells MW09R, MW10R, BH-1, MW17, MW24, MW28, MW29, MW30 and MW32 where groundwater and product recovery are being performed.
- Collect depth to water and product at each of the Site monitoring and recovery wells the day after the pumps have been turned off.
- Collect groundwater samples for chemical analysis at selected wells listed on Table 5.
- Review the laboratory results and perform a data validation review and summary.
- Compile the depth to water, product level information, and analytical data into summary tables and figures.
- Prepare a discussion on the laboratory results, groundwater flow direction and gradient, and recommendations for future work.
- Update the tentative schedule of future quarterly groundwater monitoring events.

1.0 INTRODUCTION

HydroCon Environmental, LLC (HydroCon), has prepared this Draft Quarterly Groundwater Monitoring Report on behalf of Coleman Oil Company (Coleman Oil) to assess groundwater quality following the release of renewable diesel (R99) fuel from leaking underground piping at the Coleman Oil fuel storage facility at 3 Chehalis Street in Wenatchee, Washington (herein referred to as the Property). This report has been prepared to meet the requirements of Exhibit B – Scope of Work and Schedule of Agreed Order No. DE 15389 entered into by Coleman Oil Company, LLC; Coleman, Services IV, LLC; and Ecology with an effective date of October 30, 2017 (Agreed Order).

The Site, as defined under the Washington State Model Toxics Control Act Cleanup Regulation (MTCA), Chapter 173-340 of the Washington Administrative Code (WAC §173-340-200), comprises the portion of the Property and adjacent properties where hazardous substances have come to be located in soil, groundwater, and surface water at concentrations suspected to exceed applicable cleanup levels as a result of releases at the Property (herein referred to as the Site).

1.1 *Document Organization*

The Quarterly Groundwater Monitoring Report is organized as follows:

Section 2, Background Information, provides a description of the Site, Property ownership, and geologic and hydrogeologic setting.

Section 3, Field Work

Section 4, Quarterly Groundwater Monitoring Results

Section 5, Discussion

Section 6, Future Monitoring Schedule

Section 7, Qualifications

Section 8, References

2.0 BACKGROUND INFORMATION

The following section provides a summary of the Site location and description, geologic setting, historical land use, environmental history, and contaminants and media of concern at the Site. Most of the information provided below is summarized from the Supplemental Remedial Investigation (SRI) Work Plan (HydroCon 2018a) and the Draft SRI Report (HydroCon 2018b).

2.1 Site Description

The Site is located at 3 Chehalis Street in Wenatchee, Washington. The Site is located nearly adjacent to the west side of the Columbia River. Land use near the Site is primarily industrial (Figure 1).

2.2 Site History

This section provides a brief Site history, focusing on the discovery of a release of R99 in March 2017. Additional Site history is documented in the SRI Report.

The Site currently operated by Coleman Oil has been in operation as a bulk fuel facility since 1921. Coleman Oil has operated the bulk fuel facility since Coleman Services IV, LLC purchased the Property in January 2007.

A petroleum sheen was discovered on the west side of the Columbia River approximately 300 feet north of the Site on March 17, 2017. Subsequent line tightness testing revealed that two lines could not hold pressure and a review of Coleman Oil inventory records indicated that the release was most likely from the R99 renewable diesel fuel line. Oil storage, loading and unloading of trucks for oil distribution was terminated in 2017 except for a small underground storage tank that supplies fuels to the adjacent cardlock fueling facility.

Subsequent testing included the installation of groundwater monitoring wells, soil borings, and test pits in phases between March and September 2017 by Farallon (2017) and March and April 2018 by HydroCon (2018b) (Figure 2). This testing indicated soil and groundwater had been impacted at concentrations above MTCA Method A cleanup levels, including impacts to soil and groundwater near the location of the sheen.

2.3 Remedial Measures

Several remedial measures have taken place at the Site since the discovery of the release.

- Pads and booms have been placed in the Columbia River in the observed sheen discharge area to recover product since discovery of the release. This practice has continued along with daily reporting regarding Columbia River conditions.

- A remedial excavation was performed on the Coleman Oil facility near the point of release. Approximately 741 tons of petroleum contaminated soil was removed for offsite disposal.
- Sumps were placed in the remedial excavation backfill. Pumps were placed in the sumps to recover product and maintain a cone of depression to minimize product migration. Effluent from the sumps was routed to an oil/water separator and settling tanks prior to treatment using granular activated carbon (GAC). The treated water was disposed under permit into the City of Wenatchee's sanitary sewer system.
- Farallon Consulting and Ecology's consultant (Environmental Partners, Inc. [EPI] installed fifteen wells at the Site (MW-1 through MW-11, BH-1 through BH-3, and RW-1). Product recovery via skimming using a peristaltic pump and tubing and/or passive recovery using hydrophobic socks has occurred in some of the wells.
- In April 2018, HydroCon performed a supplemental remedial investigation (SRI) that included the addition of fourteen new 4-inch diameter monitoring wells (MW12 through MW23, MW01S, MW03S). Three wells with persistent LNAPL measurements (MW-9, MW-10, and BH-1) were fitted with pumps and connected with underground piping for pressurized air to operate the pumps, and conduit for electrical control and effluent piping to collect the recovered groundwater and product. The recovered groundwater and product from these wells are routed through three oil/water separators, into storage tanks and then through filtration and GAC and into storage tanks. The treated water is analyzed prior to discharge in batches under an agreement between Coleman Oil and the City of Wenatchee into the City's sanitary sewer system. Pumping of the three wells began on May 5, 2018.
- In August 2018 nine new 4-inch diameter monitoring wells (MW24 through MW32) were installed at the Site. Two of the wells used to recover product and contaminated groundwater (MW-9 and MW-10) were deepened, completed as 4-inch diameter wells, and renamed MW09R and MW10R, respectively.
- A surface release of diesel and gasoline that was stored in a 55-gallon drum at the Site occurred near the northeastern corner of Tank Farm A in early September 2018. A total of 16.83 tons of petroleum contaminated soil was removed by remedial excavation. Confirmation soil sampling results indicated that the lateral extent of contamination had been removed. However, the concentration of gasoline range petroleum hydrocarbons (GRPH) and diesel range petroleum hydrocarbons (DRPH) in the floor sample collected near the groundwater interface exceeded their respective MTCA Method A cleanup levels. No further excavation was attempted due to the presence of the Tank Farm A containment and a massive boulder that was too large to remove using the excavation equipment. Further remedial action in this area will be considered in the feasibility study that will be prepared for the Site.
- The remediation system was expanded in November 2018 to include six more recovery points (MW17, MW24, MW28, MW29, MW30, and MW32). The modified remediation system now consists of three separate zones that pump LNAPL and contaminated groundwater into an associated OWS. These zones include the MW09R zone (MW09R, MW17, and MW32) with only MW09R currently active; the MW10R zone (W10R, MW24,

and MW28) with all 3 wells active; and the BH-1 zone (BH-1, MW29, and MW30) with all 3 wells active. The expanded remediation system began pumping on November 2, 2018.

As of early December 31, 2018, a total of 449.34 gallons of R99 had been recovered (HydroCon 2018b).

2.4 Geologic & Hydrogeologic Setting

The Site is located in the Wenatchee Valley approximately 150 feet west south-west of the Columbia River at an elevation of approximately 660 feet above mean sea level (Figure 1). The topography of the Site slopes very gently to the north north-west parallel to the Columbia River.

The soils beneath the Site are consistent with ice-age alluvial deposits underlain by the Chumstick Formation bedrock. The alluvium consists primarily of silt and silty sand, with layers of clay, sand, gravel and cobbles. The thickness of the alluvial deposits ranges from 6 to 31.5 feet. Boring logs and drilling observations indicate that a more massive, well cemented sandstone layer is beneath thin layers of mudstone, shale and sandstone and the sandstone appears to be acting as an aquitard in this area. The groundwater level is within a few feet of the top of the Chumstick Formation and always above the sandstone layer. An exception is at MW22 where the groundwater is approximately 15 feet above the top of the Chumstick formation. The MW22 area has been disturbed by previous excavation and has been backfilled with construction and other debris.

Contaminant transport and groundwater flow appears to follow the surface of the Chumstick formation and field observations paired with analytical data suggest that the petroleum contamination penetrates a few feet into the formation and travels laterally within the shaley sandstone and shale/siltstone/mudstone of the Chumstick formation. The groundwater flow direction and the dip of the sandstone surface are both to the north/ northeast except in the region between the Site and the Columbia River where both are more to the east. Aquifer testing performed in February 2018 demonstrated that none of the wells tested are hydraulically connected. However, over 200 gallons of R99 (based on product recovery totals) has been recovered from the Columbia River with the apparent discharge points being west of monitoring wells BH-2 (south) to MW-10 (north).

2.5 Hydraulic Testing

Hydraulic testing of the aquifer beneath the Site has been conducted on two occasions and are briefly summarized here.

Six wells were subjected to step-drawdown testing in February 2018 (HydroCon 2018c). Three wells (RW-1, BH-2, and BH-3) could not sustain the initial step pumping rate of 0.25 gallons per minute (gpm) and dewatered after pumping approximately the amount of water stored in the well screen and surrounding sand pack. Wells BH-1, MW-9, and MW-10 sustained step flow rates of between 2.0 and 2.5 gpm before water levels reached target elevations. Drawdown was not observed in any nearby monitoring wells during the six step-drawdown tests. Analysis of the drawdown data indicated that at a pumping rate of 1.75 gpm the three wells would produce approximately 3.5 feet of drawdown in the

aquifer adjacent to the pumping well and the cone of influence would extend out to approximately 100 feet as defined by a drawdown of 0.1 feet.

Slug testing or falling head testing was performed on May 21, 2018 to observe relative flow rates of select wells on the Coleman oil property to better understand contaminant flow across the Site. Slug testing included MW-7, MW-8, MW-9, MW-11, MW13, MW14, MW16, MW17, MW19, MW20, MW22, and MW23.

A falling-head test is conducted by rapidly raising the water level in the control well and subsequently measuring the falling water level. The results of the slug tests show that MW-6, MW-11, MW17 and MW22 had high flow rates; MW-8, MW14, MW16, MW20 and MW23 had medium flow rates; and MW-7, MW13, MW19, and MW21 had low flow rates. The relative flow rates are highly variable across the Site; however, there is a good correlation between wells with high flow rates and high product recovery.

Based on the testing described above, pumps were installed at monitoring wells MW-9, MW-10, and BH-1. With the exception of minor equipment problems, the wells have been in operation since May 5, 2018, however, they only operate when water is at the level of the pump. When the pumps are activated, they pump at a rate of approximately 2 gpm as determined by the hydraulic testing. The intake for the pumps in the wells are set at approximately 618 feet above mean sea level (amsl), which corresponds to the elevation of the lowest seep on the bank of the Columbia River (Figure 2). As such, the pumps achieve the goal of maintaining water levels at target depths and thereby reducing migration to the river.

2.6 Previous Groundwater Monitoring

Farallon collected reconnaissance groundwater samples from push-probe borings FB-9 and FB-10 on April 7, 2017. Results of these samples indicated that GRPH, DRPH, and benzene exceeded their respective MTCA Method A cleanup level. The concentration of oil range petroleum hydrocarbons (ORPH) exceeded the MTCA Method A cleanup level in the sample collected from FB-9. The lab reported that the sample collected from FB-10 had no detection of ORPH but the laboratory method reporting limit (MRL) used in the analysis exceeded the MTCA Method A cleanup level.

Monitoring wells MW-1, MW-2, MW-4, and MW-5 were sampled on March 23, 2017 prior to the installation of new monitoring wells at the Site in April 2017. The samples were analyzed for DRPH and ORPH only. There was no detection of DRPH or ORPH in the samples collected from MW-2, MW-4, or MW-5. The sample collected from MW-1 had a concentration of DRPH slightly above the MTCA Method A cleanup level and ORPH slightly below the MTCA Method A cleanup level.

A Site-wide groundwater monitoring and sampling event occurred on April 20 and 21, 2017 after the installation of wells MW-6 through MW-11, BH-1 through BH-3, and RW-1. Groundwater samples were not collected from monitoring wells MW-8 and MW-9 due to the presence of LNAPL at these locations. Monitoring well MW-2 was not sampled due to historic results of no detection of any contaminant above the respective MRLs.

Another Site-wide groundwater monitoring and sampling occurred on September 28 and 29, 2017.

Groundwater samples were not collected from monitoring wells BH-1 and BH-2 due to lack of water in these wells. DRPH, ORPH, GRPH, and/or benzene were detected at concentrations exceeding their respective MTCA Method A cleanup levels in monitoring wells BH-1 through BH-3, MW-1, and MW-6 through MW-11 and in recovery well RW-1 during the April and/or September groundwater sampling events.

HydroCon performed a quarterly groundwater monitoring and sampling event in April 2018 after additional wells (MW12 through MW23 and MW01S and MW03S) were installed during the SRI. Groundwater samples were collected from monitoring wells MW01S, MW-2, MW03S, MW-4 through MW14, MW16, MW17, MW19 through MW23, BH-1, BH-2, BH-3, and RW-1. Groundwater samples were not collected from MW15 and MW18 due to a lack of water. Groundwater samples were not collected from MW-1 and MW-3 due to improper well construction.

In August 2018, HydroCon installed monitoring wells MW24 through MW32 to facilitate interim remedial actions and to fill data gaps for the SRI (HydroCon 2018d). This report includes the third sampling results for these wells.

The construction details for all wells, including well depth, screened intervals, screen diameters, are summarized on Table 1.

2.7 Monitoring Well Identification

HydroCon utilizes a well and boring identification convention that differentiates wells and boring installed by HydroCon verses installations by others. Well and borings installed by others include a hyphen in the identification (e.g., MW-11, BH-1) whereas those installed by HydroCon do not include a hyphen (e.g., MW12, HC01).

3.0 FIELD WORK

This section describes the sampling procedures, analytical methods, groundwater conditions, and laboratory results. A data quality review is included.

3.1 Groundwater Sampling Procedures

Depth to water and product thickness were measured in all the Site wells on two dates. The first measurements were collected on March 24, 2018 immediately after the pumps in the pumping wells were turned off. The second round of water level and product thickness measurements were collected on March 29, 2019 after completion of groundwater sampling (Table 2). HydroCon used this second data set to calculate groundwater elevations and prepare the groundwater elevation contour plot (Figure 3).

Prior to collection of depth to water measurements, the well cap on each well was removed and the water level was allowed to equilibrate. The depth to water in each well was measured using a clean electronic water level indicator. Water levels were measured at the scribed reference mark (north side of the top of the polyvinyl chloride casing) at each well.

HydroCon collected groundwater samples on March 24 through March 29 from 30 monitoring and recovery wells (Tables 2 and 3). The following wells shown on Table 2 were not sampled for the following reasons:

- FB-9 and FB-10 are reconnaissance groundwater samples. Monitoring wells were not installed in these direct-push boreholes.
- HydroCon did not collect groundwater samples from MW-2, MW-3, MW-4, MW-5, and MW22. HydroCon petitioned Ecology to cease sampling in these wells due to improper well construction (MW-2 and MW-4), no detection of chemicals of concern (COCs) in the well (MW-3 and MW-5), and MW22 being located outside of the plume that originates at the Coleman Oil Site. This request was approved by Ecology[1].
- MW15 and MW18 were not sampled due to insufficient water in the wells.

Three field duplicate samples (MW100, MW101, and MW102) were collected from MW-6, MW17, and BH01R, respectively for quality assurance/quality control (QA/QC) purposes.

Prior to groundwater sampling, monitoring wells were purged with a low-flow peristaltic pump equipped with a new length of low-density polyethylene tubing attached to a new length of silicone tubing in

[1] Washington State Department of Ecology. *Comments on Supplemental Remedial Investigation Report*. August 16, 2018.

accordance with U.S. Environmental Protection Agency (EPA) guidance for low-flow sampling[2]. The tubing intake was placed approximately 2 to 3 feet below the surface of the groundwater or mid-screen in each well. During purging, water quality was monitored using a Quanta multi-parameter water quality meter equipped with a flow-through cell. The water quality parameters monitored and recorded included temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential. Each well was purged until all six water quality parameters stabilized or the minimum parameter subset of pH, specific conductance, temperature, and turbidity and/or dissolved oxygen stabilized. *Groundwater Sample Collection Forms* and *Daily Field Reports* are included as Appendix A.

Following purging, groundwater samples were collected from the pump outlet tubing located upstream of the flow-through cell and placed directly into clean, laboratory-prepared sample containers. Each container was labeled with a unique sample identification number, placed on ice in a cooler, and transported under chain-of-custody to APEX laboratory of Tigard, Oregon, for laboratory analysis.

Purge water generated during the monitoring event was collected in 55-gallon barrels and transported to the onsite treatment system for treatment and discharge to the City sanitary system.

3.2 Laboratory Analysis

The analytical protocols for the samples collected at the Property include the required testing for petroleum releases for gasoline (Table 830-1 in the MTCA Cleanup Regulations Chapter 173-340 WAC). The analytical methods include:

- GRPH using Northwest Method NWTPH-Gx.
- DRPH and ORPH using Northwest Method NWTPH-Dx.
- BTEX using EPA Method 8260C.

[2] *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures (April 1996). EPA/540/S-95/504*

4.0 QUARTERLY GROUNDWATER MONITORING RESULTS

4.1 Groundwater Conditions

Groundwater levels in the Site monitoring wells were measured twice during the groundwater sampling event. HydroCon measured water levels in the monitoring wells immediately after turning off the extraction system on March 24, 2019. A second round of water level measurements was conducted on March 29, 2019 five days after the system had been turned off. It is HydroCon's opinion that this second set of measurements is most representative of static groundwater conditions at the site. Depth to water measurements and calculated groundwater elevations for the second set of measurements at each well are summarized on Table 2. It should be noted that monitoring wells MW15 and MW18 were dry on both dates.

On March 29, 2019 the depth to water at the Site ranged from 6.42 feet bgs (MW-3) to 37.58 feet bgs (MW-5) and groundwater elevations ranged from 616.95 (MW22) to 651.84 (MW-3) feet amsl. A groundwater elevation contour plot was prepared from this data set (Figure 3). Groundwater flow across the Site was generally to the northeast with a more easterly flow in the southern portion of the Site. The groundwater gradient between MW13, near the middle of the property, and MW22 was 0.053 ft/ft. The gradient in the southern portion of the Site between MW-2 and MW-5 is much steeper at 0.45 ft/ft.

Vertical gradients were calculated for well pairs MW-1/MW01S and MW-3/MW03S located in the southern portion of the Site. These well pairs are located within 10 horizontal feet of each other. The vertical hydraulic gradient within an aquifer (or between two aquifers separated by an aquitard) is calculated by dividing the difference in hydraulic head (or water level elevation) by the vertical (elevation) distance between the well screen midpoints. Table 5 provides the parameters and calculations for the vertical gradients of the well pairs.

The groundwater elevations for each well pair are very similar with slightly higher elevations for the deeper wells (MW-1 and MW-3) indicating a very slight upward vertical gradient. The calculated vertical gradient for MW-1/MW01S was 0.087 ft/ft and the vertical gradient for MW-3/MW03S was 0.018 ft/ft for the March 29, 2019 measurement.

These very small vertical gradients indicate that vertical gradients do not play a significant role in contaminant distribution or transport, at least in the southern portion of the Site. The vertical gradients for MW-1/MW01S were nearly identical to the August and November 2018 measurements.

4.2 Groundwater Sampling Results

Laboratory analytical results are reported as micrograms per liter (µg/L) or parts per billion. The results are provided on Table 3 and laboratory reports are included as Appendix B. A summary of the results for each constituent sampled is provided below.

Gasoline Range Petroleum Hydrocarbons

GRPH was detected above the laboratory's method reporting limit (MRL) in 18 wells including MW-1, MW01S, MW-6, MW-8, MW09R, MW10R, MW-11, MW13, MW14, MW17, MW19, MW20, MW21, MW28, MW29, BH01R, BH-2, and BH-3. The GRPH concentration ranged up to 28,500 µg/L with the highest concentration at MW13. The MTCA Method A cleanup level for GRPH is 800 µg/L and was exceeded in the samples collected from MW09R, MW10R, MW-11, MW13, MW14, MW17, MW20, and BH01R.

Diesel Range Petroleum Hydrocarbons

DRPH was detected above the MRL in 26 wells with concentrations ranging up to 13,600 µg/L. The highest DRPH concentration was detected at BH01R. The only wells that did not have a detection of DRPH above the MRL were RW-1, MW03S, MW-5, and MW12. The MTCA Method A cleanup level for DRPH of 500 µg/L was exceeded in the samples collected from MW-6, MW-8, MW09R, MW10R, MW-11, MW13, MW14, MW17, MW20, MW21, MW24, BH01R, BH-2, and BH-3.

Oil Range Petroleum Hydrocarbons

ORPH was detected above the MRL in 2 wells including MW29 and BH-2. The highest concentration was detected in MW29 at a concentration of 928 µg/L. This concentration exceeds the MTCA Method A cleanup level of 500 µg/L.

Benzene

Benzene was detected above the MRL in 11 wells including MW-8, MW09R, MW10R, MW11, MW13, MW14, MW17, MW19, MW28, MW29, and BH01R at concentrations ranging up to 701 µg/L. The highest concentration was seen in MW13. The MTCA Method A cleanup level for benzene (5 µg/L) was exceeded in MW09R, MW-11, MW13, and MW14.

Toluene

Toluene was detected above the MRL in MW13 at a concentration of 761 µg/L. This concentration is below the MTCA Method A cleanup level of 1,000 µg/L.

Ethylbenzene

Ethylbenzene was detected in 6 wells above the MRL including MW01S, MW09R, MW10R, MW13, MW14, and BH01R at concentrations up to 804 µg/L. The concentration in MW13 exceeds the MTCA Method A cleanup level of 700 µg/L.

Total Xylenes

Total xylenes were detected above the MRL in 7 wells including MW01S, MW-8, MW09R, MW10R, MW-11, MW13, and BH01R at a concentration up to 4,980 µg/L. The concentration in MW13 exceeds the MTCA Method A cleanup level of 1,000 µg/L.

Polynuclear Aromatic Hydrocarbons

Polynuclear Aromatic Hydrocarbons (PAHs) were not analyzed in any of the wells during this sampling event. Historical results are provided in Table 4.

4.3 Data Quality Review

Laboratory testing of groundwater are included in Appendix B as APEX Work Orders A9C1035. The *Data Quality Review Report* is included in Appendix C. The review of the analytical results included the following:

- Holding Times & Sample Receipt
- Surrogate Compounds
- Associated Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Associated Laboratory Duplicate
- Laboratory Control Sample/ Laboratory Control Sample Duplicates (LCS/LCSD)
- Method Blank
- Field Duplicates
- Target Analyte List
- Reporting Limits (MDL and MRL)
- Reported Results

Data were qualified by the laboratory due to matrix interference, compound identification issues, limited sample volume and/or LCS/CCV recoveries. These qualifiers resulted in validation qualifiers of estimated quantity (J) and estimated and not detected (UJ). No data were rejected and completeness was 100 percent.

All results are usable for their intended purpose. Data qualifications are identified in detail in full *Data Validation Report* included in Appendix C.

5.0 DISCUSSION

This section provides a discussion of the March 2019 quarterly groundwater monitoring event.

5.1 Discussion of Laboratory Results

Results of the March 2019 quarterly groundwater monitoring event indicated that 19 wells at the Site (MW-6, MW-8, MW09R, MW10R, MW-11, MW13, MW14, MW17, MW19, MW20, MW21, MW24, MW26, MW28, MW29, MW30, BH01R, BH-2, and BH-3) have one or more COCs above their respective MTCA Method A cleanup level. Monitoring wells MW15 and MW18 were dry so no samples could be obtained to assess water quality in these wells. This is an increase of 4 wells compared to the results of the November 2018 quarterly groundwater monitoring results.

5.2 Trends in Groundwater Chemistry

HydroCon has prepared trend plots of GRPH and DRPH at selected wells that have at least four sampling results including MW-1, MW01S, MW03S, MW-6, MW-7, MW-8, MW-9/MW09R, MW-10/MW01R, MW-11, MW12, MW13, MW14, MW16, MW17, MW19, MW20, MW21, MW23, BH-1/BH01R, BH-2, BH-3, and RW-1 (Figures 4a, 4b, 4c, 4d, 4e, 4f, 4g, and 4h). Trend plots were not prepared for two wells that have at least four sampling results (MW-4 and MW-5) because there has been no detection of any of those constituents in the wells. A discussion of groundwater trends of each these wells are provided below.

BH-1/BH01R – A significant increase in DRPH has been observed beginning in November 2018. The concentration of GRPH fluctuates in this well with no apparent trend observed. Pumping began in this well in May 2018.

BH-2 – The concentration of DRPH appears to be fluctuating with no apparent trend. A general decreasing trend in GRPH is observed in this well.

BH-3 – A consistent decreasing trend in DRPH was observed in this well through August 2018. An increasing trend has been observed since. The concentration of GRPH decreased significantly from its high in April 2017. A generally flat trend has been observed since. The concentration of GRPH in this well is higher this quarter than the previous quarter.

RW-1 - A decreasing trend in DRPH is observed from its high in April 2017 with an exception of increasing trend in August 2018. GRPH has not been detected above the MRL observed since sampling began

MW-1 – A consistent decreasing trend of DRPH is observed from the highest concentration recorded in April 2017. The concentration of GRPH fluctuates between 200 to 450 µg/L, well below the MTCA Method A cleanup level.

MW01S – The concentration of DRPH has fluctuated between non detect to low concentrations below the MTCA Method A cleanup level since sampling began. The concentration of GRPH fluctuates between non detect to 268 µg/L, well below the MTCA Method A cleanup level.

MW03S – The concentration of DRPH has fluctuated between non detect to low concentrations below

the MTCA Method A cleanup level since sampling began. The trend for GRPH is flat with no detection above the MRL recorded since sampling began.

MW-6 - The concentration of DRPH and GRPH appear to be fluctuating but are both lower than their highs in April 2017. An increase in DRPH and a decrease in GRPH were observed this quarter compared to the previous quarter results.

MW-7 - The concentration of DRPH and GRPH decreased significantly from their respective highs in April 2017. The trend in GRPH is flat with no detection above the MRL from September 2017 to present. The trend in DRPH is relatively flat over the same period of time. A slight decrease in DRPH concentration is observed during this quarter.

MW-8 – A decreasing trend in DRPH was observed in this well from its high in September 2017. An increasing trend has been observed since November 2018. GRPH has been relatively flat with concentrations fluctuating from 720 to 921 µg/L over the last year.

MW-9/MW09R – The concentration of DRPH has fluctuated in this well with an increasing trend since September 2018. The concentration of GRPH continues to fluctuate with no apparent trend. Pumping began in this well in May 2018.

MW-10/MW10R – The concentration DRPH fluctuated in this well until pumping began in May 2018. A relatively flat trend has been observed since. The trend of GRPH is relatively flat with the concentration ranging from 1,020 to 2,290 µg/L. Pumping began in this well in May 2018.

MW-11 – A decreasing trend in DRPH was observed in this well from its high in September 2017. A slow increasing trend has been observed since September 2018. The concentration of GRPH fluctuates between 944 to 1,540 µg/L. The trend is relatively flat.

MW12 – The concentration of DRPH dropped from its high in April 2018. A relatively flat trend in DRPH concentrations has been seen in this well since. A flat trend in GRPH has been observed with no detection above the MRL since sampling began.

MW13 – A slightly increasing trend in DRPH concentrations has been seen in this well. The concentration of GRPH has been high in this well since sampling began with a fluctuating trend.

MW14 – A slightly increasing trend in DRPH concentrations has been seen in this well. The concentration of GRPH has been high in this well since sampling began. A decrease in concentration of GRPH was observed this quarter.

MW16 – A general decreasing trend in DRPH concentrations has been seen in this well. A flat trend in GRPH has been observed with no detection above the MRL observed since sampling began.

MW17 – An increasing trend in DRPH concentrations has been seen since August 2018. A consistent decreasing trend of GRPH is observed from the highest concentration recorded in July 2018.

MW19 – A decrease in DRPH concentrations was observed in the well after the April 2018 sampling event. A significant increase in DRPH was observed in the well during the March 2019 sampling event. A relatively flat trend in GRPH concentrations has been observed in this well with a slight increase during the March 2019 sampling event.

MW20 – A decrease in DRPH concentrations was observed in the well after the April 2018 sampling event followed by an increasing trend since November 2018. A similar trend in GRPH is seen in the well with an increasing trend since November 2018.

MW21 – A decrease in DRPH concentrations was observed in the well after the April 2018 sampling event followed by an increasing trend since July 2018. A similar trend in GRPH concentrations has been observed in the well with a general flat trend during the past two quarters.

MW23 – The DRPH concentrations have fluctuated between 266 and 419 µg/L. A flat trend in GRPH has been observed with no detection above the MRL observed since sampling began.

5.3 Extent of Groundwater Contamination

The March 2019 groundwater results for GRPH and DRPH are plotted on Figures 5 and 6 and iso-concentration contours were prepared to illustrate the magnitude and extent of each contaminant at the Site. Red colored shading was used to graphically display the plume boundary. Areas of higher concentration of are shaded in darker red. The seep area (soil samples SL01 through SL04) are included on the figures since the seep water is in contact with impacted soil and shows the relationship of this area to areas of impacted groundwater.

The extent of DRPH contamination in groundwater is illustrated on Figure 6. A plume of DRPH impacted groundwater is present from the Coleman Oil facility near MW13 and extends northwest towards monitoring well MW21. There are four localized areas within the plume that have elevated DRPH concentrations:

- The area near monitoring wells MW13 and MW14. The highest concentration of DRPH (4,650 µg/L) is seen in MW13 which is located within the footprint of former Tank Farm B and next to the former Control Valve Building.
- The area in between monitoring wells MW17 and BH-2. The highest concentration of DRPH (5,690 µg/L) is seen in BH-2. Pumping well MW09R is located between these wells.
- The area of monitoring wells MW20, BH01R, MW29 and MW30. The highest DRPH concentration (13,600 µg/L) is seen in BH01R, which is used as a groundwater and product extraction well.
- The area in between monitoring wells MW21 and MW10R. The highest DRPH concentration (2,960 µg/L) is seen in MW10R, which is used as a groundwater and product extraction well.

Areas with DRPH concentrations less than 500 µg/L (Method A cleanup level) include the area of the Coleman property south of Tank Farm A, most of the east half of the Coleman Property and adjacent Worthen Street, the northwest portion of Chehalis Street, and the line of wells east of Worthen Street including and between MW25 and MW28, except BH-3. This latter area is in close proximity to the observed seep areas and reinforces the role of preferential pathways in the distribution of subsurface contaminants.

The extent of GRPH contamination in groundwater is illustrated on Figure 6. A plume of GRPH impacted groundwater is present from the Coleman Oil facility near MW13 and extends northwest towards monitoring well MW21. There are five localized areas within the plume that have elevated GRPH concentrations:

- The area near monitoring wells MW13 and MW14. The highest concentration of GRPH (28,500 µg/L) is seen in MW13 which is located within the footprint of former Tank Farm B and next to the former Control Valve Building.
- The area in between monitoring wells MW-11 and MW-8 have GRPH ranging from 768 to 1,540 µg/L. This area is located within the remedial excavation area where sump #5 was located. Sump #5 had one of the highest amounts of recovered product at the Site.
- The area in between monitoring wells MW17 and MW09R have GRPH concentrations ranging from 1,000 to 1,180 µg/L. Monitoring well MW09R is currently being used to extract product and contaminated groundwater from the Site.
- The area near BH-1 has elevated GRPH concentrations (1,130 ug/L). This well is currently being used to extract product and contaminated groundwater from the Site.
- The area in between monitoring wells MW21 and MW10R have GRPH concentrations ranging from 799 to 1,020 µg/L. Monitoring well MW10R is currently being used to extract product and groundwater from the Site.

The overall distribution of GRPH in groundwater is similar to the DRPH distribution and areas with concentrations less than 800 µg/L(Method A cleanup level) are very similar to areas below the DRPH cleanup level. An exception is the area bounded by MW25, MW20, MW19, and MW31, where, with the exception of BH-1, all wells had concentrations below the GRPH cleanup level.

6.0 FUTURE MONITORING SCHEDULE

6.1 Daily Columbia River Level and Water Level Measurements

EEC was hired by Coleman Oil to manage the booms within the Columbia River and product recovery at the Site. One of EEC's daily tasks includes monitoring the water level at a surveyed reference location along the along the Columbia River and water and product levels in the three product recovery wells at the Site (MW09R, MW10R, and BH01R) using a clean electronic oil/water interface probe. HydroCon has expanded product recovery at the Site by adding product recovery pumps in additional wells (MW17, MW24, MW28, MW29, MW30, and MW32). EEC has expanded their daily water and product level monitoring to include these new wells. These measurements are recorded in a spreadsheet file and provided to Ecology, Coleman Oil, and HydroCon daily. HydroCon will include these measurements in the Annual Operations and Maintenance (O&M) Monitoring Reports.

6.2 Weekly to Monthly Water Level and Product Thickness Measurements

EEC assists HydroCon with the collection of depth to water and product level measurements of all the Site wells on a weekly to monthly basis following the same protocol as the daily water and product level measurement task. EEC utilizes a Well Product Monitoring & Recovery spreadsheet to record these data (Appendix D). This form is provided to HydroCon so that the data can be entered into spreadsheets (i.e., Table 2) and to identify which wells require product recovery via pumping. This information also is used to assess seasonal groundwater flow direction patterns and if there is correlation between groundwater levels in the aquifer and the Columbia River stage.

6.3 Future Quarterly Groundwater Sampling

The next quarterly groundwater monitoring event is tentatively planned for August 2019. A list of wells that will be sampled and associated laboratory analysis is provided on Table 6.

As discussed above, Ecology agreed with HydroCon that collection of groundwater samples from monitoring wells MW-2, MW-3, MW-4, MW-5, MW-7, and MW22 was not necessary during the March 2019 sampling event. Ecology requested at least one more sampling event for MW-1 due to the historic detection of GRPH and DRPH[3]. This well was sampled during this monitoring event.

Ecology also requested vertical gradient data from MW-1/MW01S and MW-3/MW03S and asked that water levels be measured in these well clusters at least two times so that vertical gradient data can be verified. HydroCon has included the vertical gradient data from the last two quarterly groundwater monitoring events. This information is provided in Section 4.1 of this report.

Table 6 includes recommendations to discontinue monitoring and/or abandoning the following wells:

[3] Washington State Department of Ecology. *Ecology Comments on Supplemental Remedial Investigation Report*. August 16, 2018.

MW-1 through MW- 4. Improper well construction at monitoring wells MW-1 through MW-4 resulted in well screens placed too deep blinding off shallower water bearing zones in each respective well. This prevents the accurate monitoring of groundwater in each of these wells. At Ecology's request, three additional monitoring wells (MW01S, MW03S, and MW23) were added to the SRI to assess groundwater conditions on the southern portion of the Coleman property. It should be noted that, with the exceptions of MW-1, these wells have never had detections of GRPH, DRPH, or ORPH.

MW-5. This well has never had detections of GRPH, DRPH, or ORPH and given the now established groundwater flow directions, it's highly unlikely to be impacted by Site contaminants. As a long-term cost savings measure to Coleman Oil, HydroCon requests that Ecology consider abandonment of this well.

MW-7. Monitoring wells MW-7 and MW23 have similar construction but are located approximately 15 feet apart. As a long-term cost savings measure for Coleman Oil, HydroCon requests that Ecology consider abandoning MW-7.

MW22. The soil samples at MW22 differed from the typical sequence observed in all other borings. The upper 35 feet of this boring consisted of loose silt, sand, gravel, and clay with miscellaneous fill debris consisting of brick, glass, and burnt material and free product resembling black oil at 31.5 feet bgs. It is likely that this area has been disturbed by previous excavation and has been backfilled with construction and other debris. A sample of the product collected from MW22 was assessed by APEX's forensic chemist (Mr. Kurt Johnson) and a write up is included in Appendix K of the SRI Report (HydroCon 2018b). Results of the evaluation indicate that the product is derived from coal tar and it does not contain R99 Renewable DieselR99 Renewable Diesel. Therefore, it appears that the plume emanating from the Coleman Oil Site terminates south of MW22 and the product observed in MW22 is not from Coleman Oil.

7.0 QUALIFICATIONS

HydroCon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. HydroCon makes no warranties, either expressed or implied, regarding the findings, conclusions or recommendations. Please note that HydroCon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report.

Findings and conclusions resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable or not present during these services, and we cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this monitoring. Subsurface conditions may vary from those encountered at specific sampling locations or during other surveys, tests, assessments, investigations, or exploratory services; the data, interpretations and findings are based solely upon data obtained at the time and within the scope of these services.

This report is intended for the sole use of **Coleman Oil Company** to meet the requirements of Exhibit B – Scope of Work and Schedule of the Agreed Order. This report may not be used or relied upon by any other party without the written consent of HydroCon. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

The conclusions presented in this report are, in part, based upon subsurface sampling performed at selected locations and depths. There may be conditions between borings or samples that differ significantly from those presented in this report and which cannot be predicted by this study.

8.0 REFERENCES

Farallon, 2017. *Supplemental Data Summary Report*. Prepared for Coleman Oil Company. October 18.

HydroCon, LLC. 2018a. *Supplemental Remedial Investigation Work Plan. Coleman Oil R99 Renewable Diesel Spill, Wenatchee, Washington*. Prepared for Coleman Oil Company, LLC. March 15.

———. 2018b. *Supplemental Remedial Investigation Report. Coleman Oil R99 Renewable Diesel Spill, Wenatchee, Washington*. Prepared for Coleman Oil Company, LLC. In Preparation.

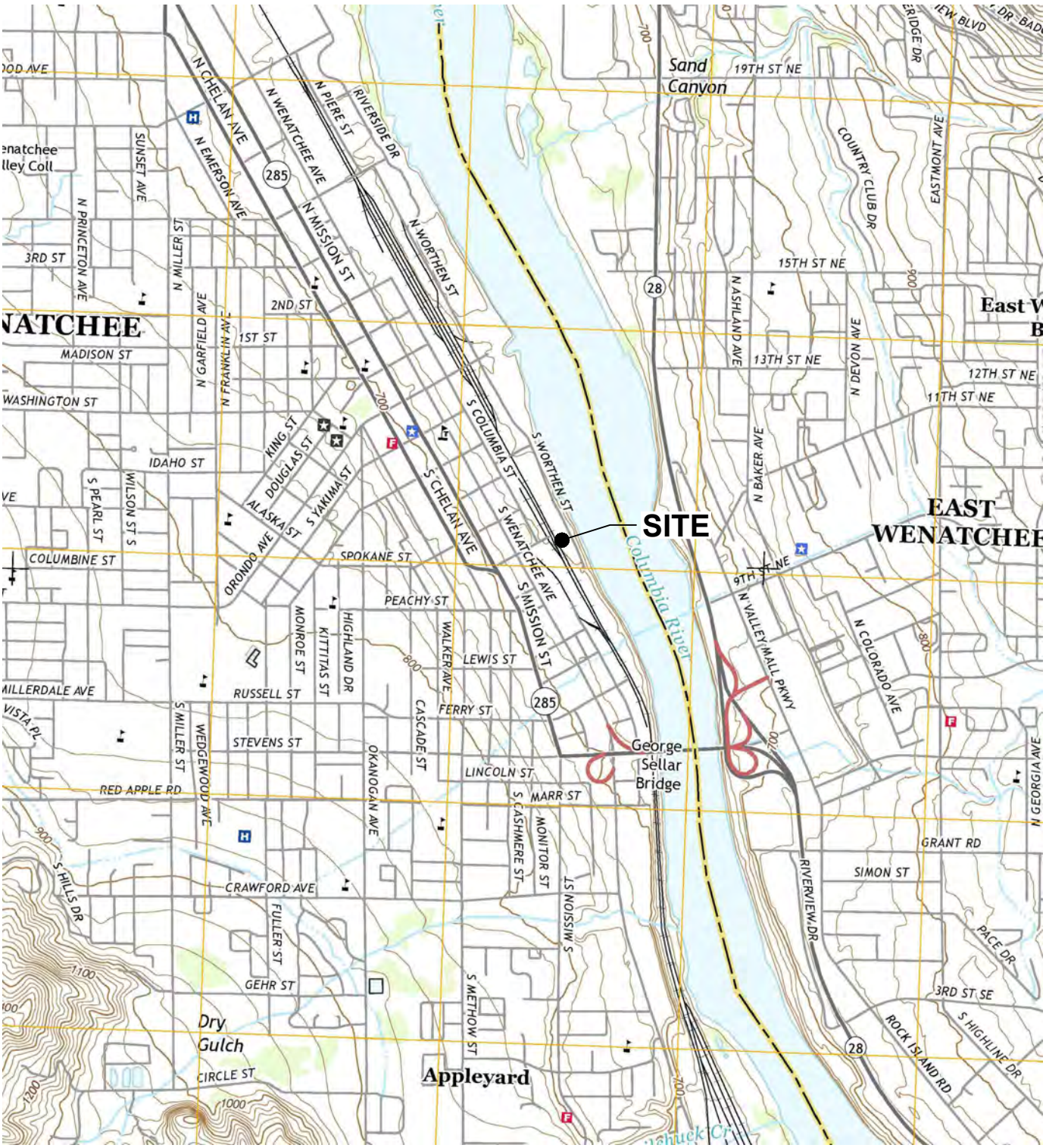
———. 2018c. *Aquifer Testing at Coleman Oil Facility, Wenatchee, Washington*, March 16.

———. 2018d. *Additional Interim Actions Addendum #2*.

———. 2018E. *Quarterly Groundwater Monitoring Report – August 2018, November 12*.

———. 2019a. *Quarterly Groundwater Monitoring Report – November 2018, January 8*.

FIGURES



NOTE(S):

USGS, WENATCHEE QUADRANGLE
WASHINGTON
7.5 MINUTE SERIES (TOPOGRAPHIC)

0 2000 4000

SCALE IN FEET
1" = 2000'

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HydroCon
510 Allen St. Suite B Kelso, Wa 98626, Ph(360)-703-6086

DATE: 10-18-18
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 1
SITE LOCATION MAP

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

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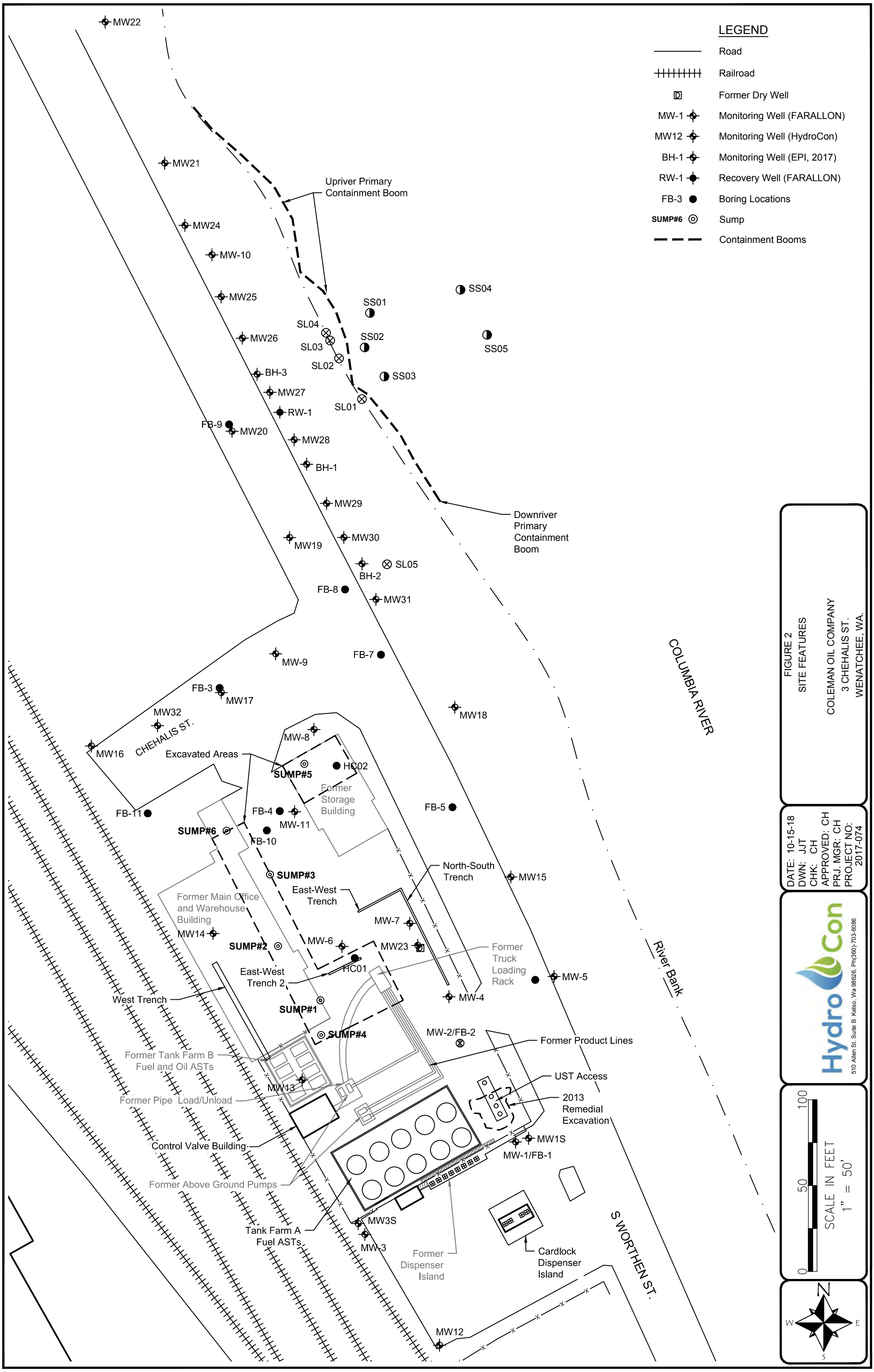

FIGURE 2
SITE FEATURES

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

DATE: 10-15-18
DWN: JJT
CHK: CH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO: 2017-074

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510 Allen St. Suite B Kelso, Wa 98626, Ph(360)-703-6086

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LEGEND

- Road
- Railroad
- MW-1 — Monitoring Well (FARALLON)
- MW12 — Monitoring Well (HydroCon)
- BH-1 — Monitoring Well (EPI, 2017)
- RW-1 — Recovery Well (FARALLON)
- MW-4 — Decommissioned Wells
- Containment Booms
- 632.12 — Groundwater Surface Elevation
- 630 — Groundwater Elevation Contour
- Approximate Groundwater Flow Direction

MW22 616.95
620
MW21 624.21
Upriver Primary Containment Boom
625
MW24 619.63
MW10R 625.76
630
MW25 632.12
MW26 630.30
635
BH-3 630.71
MW27 628.96
RW-1 629.30
MW20 637.53
MW28 630.14
BH01R 630.73
640
MW29 631.54
MW19 632.01
MW30 617.55
BH-2 626.02
MW31 621.52
Downriver Primary Containment Boom
COLUMBIA RIVER
625
645
MW09R 640.73
644.70 MW32
MW17 642.17
MW18 DRY
630
CHEHALIS ST.
MW16 647.49
Excavated Areas
MW-8 642.83
SUMP#5
Former Storage Building
SUMP#6
MW-11 644.59
East-West Trench
North-South Trench
MW15 DRY
SUMP#3
Former Main Office and Warehouse Building
MW14 649.45
SUMP#2
MW-6 648.20
MW-7 647.80
MW23 647.55
Former Truck Loading Rack
East-West Trench 2
MW-5 618.42
West Trench
650
SUMP#1
MW-4 642.82
SUMP#4
MW-2 648.15
Former Product Lines
Former Tank Farm B Fuel and Oil ASTs
649.83 MW13
UST Access
2013 Remedial Excavation
Former Pipe Load/Unload
647.66 MW01S
MW-1
Control Valve Building
Former Above Ground Pumps
MW03S 650.24
Tank Farm A Fuel ASTs
MW-3
Former Dispenser Island
Cardlock Dispenser Island
S WORTHEN ST.
River Bank
651.14 MW12

FIGURE 3
GROUNDWATER ELEVATION CONTOURS
FOR MARCH 29, 2019
COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

DATE: 5-14-19
DWN: JJT
CHK: CH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO: 2017-074

HydroCon
510 Allen St. Suite B Kelso, Wa 98626, Ph(360)-703-6086

SCALE IN FEET
1" = 50'
0 50 100

N W E S

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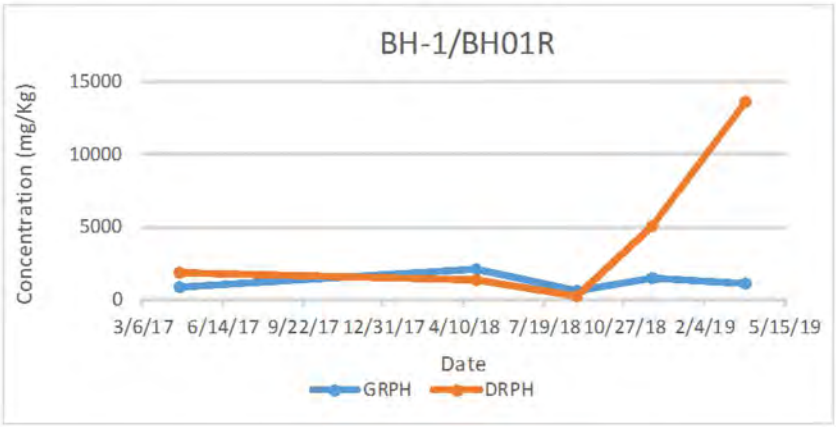

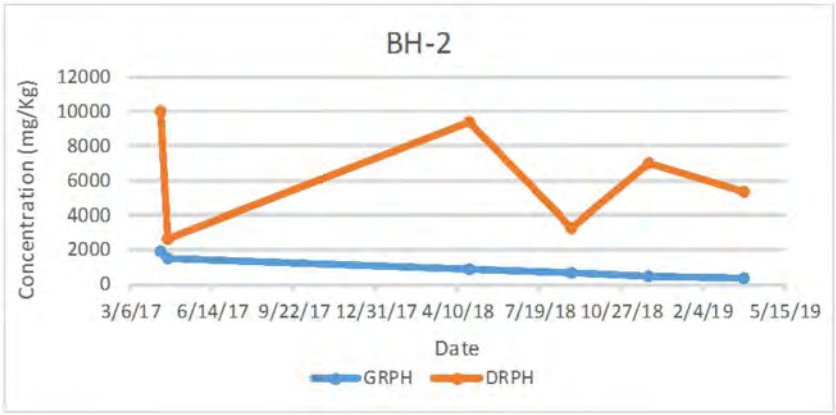

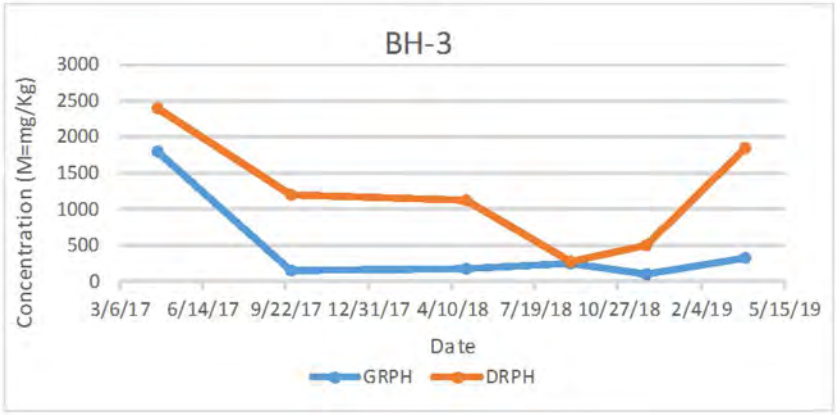

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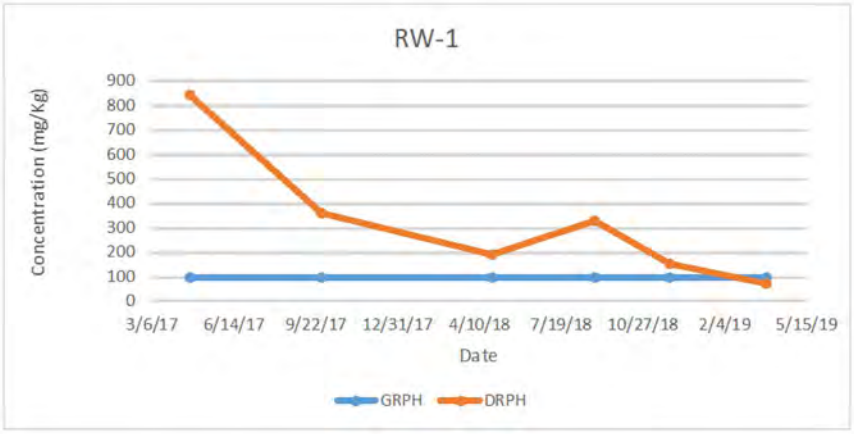
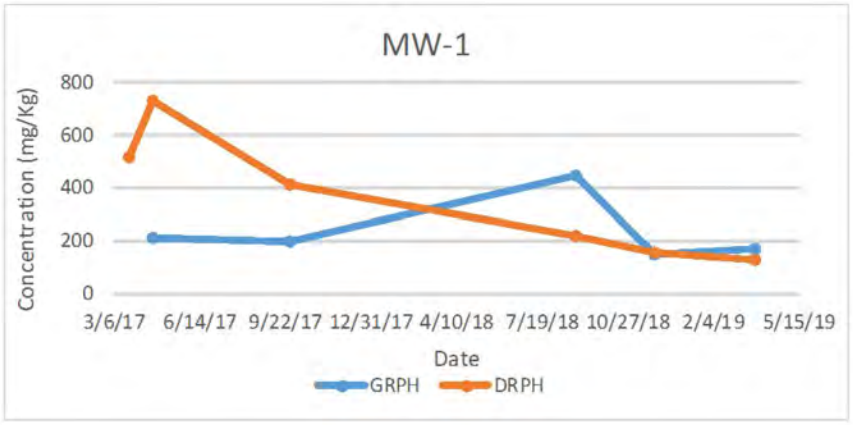
HydroCon

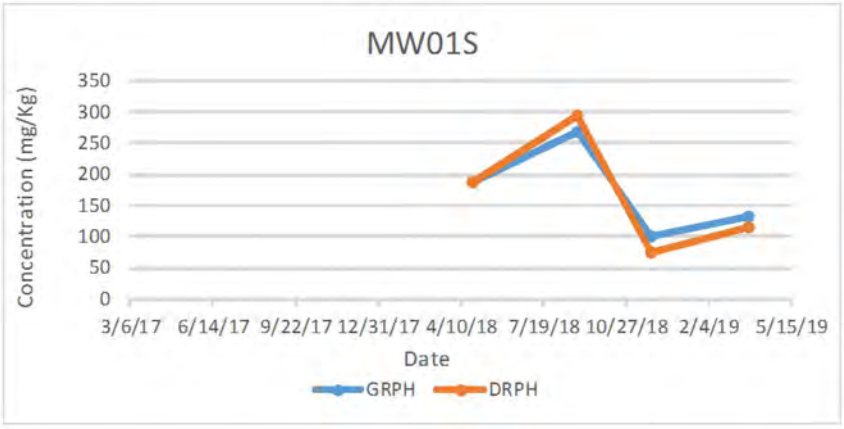
DATE: 5-14-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4A
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







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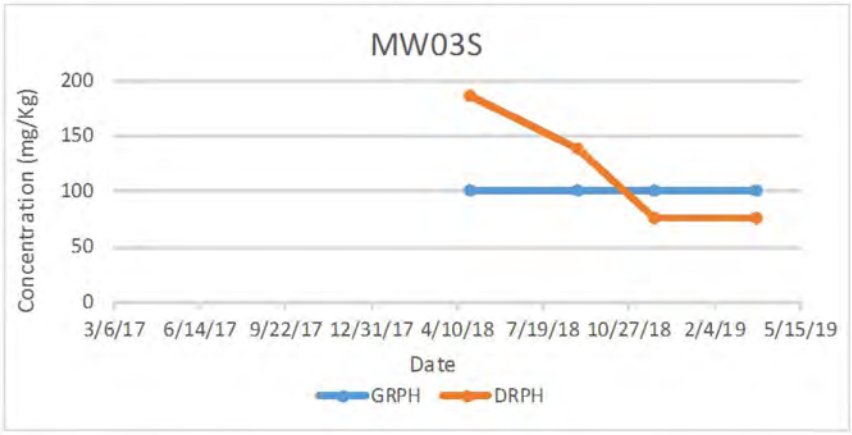
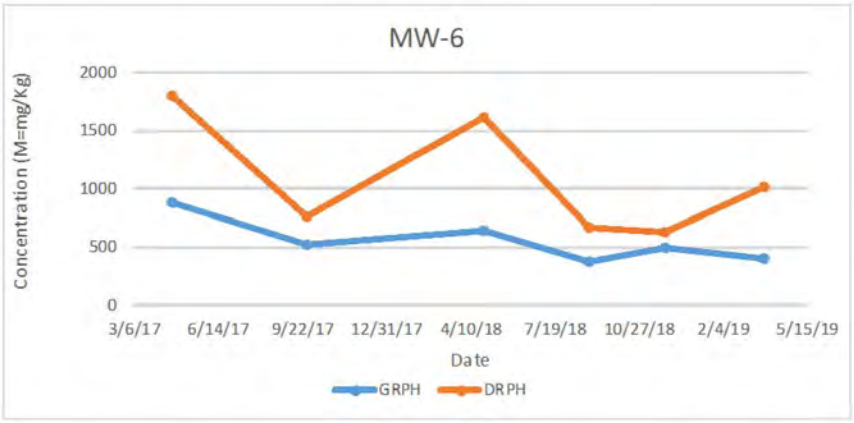
HydroCon

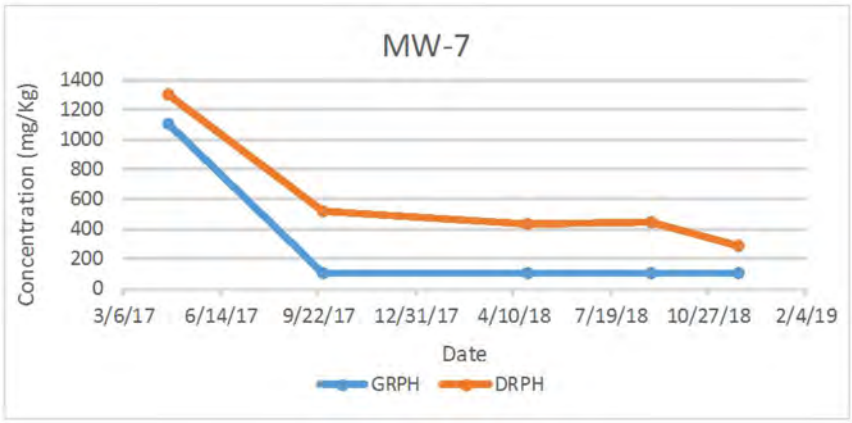
DATE: 5-14-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4B
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







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HydroCon

DATE: 5-14-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4C
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

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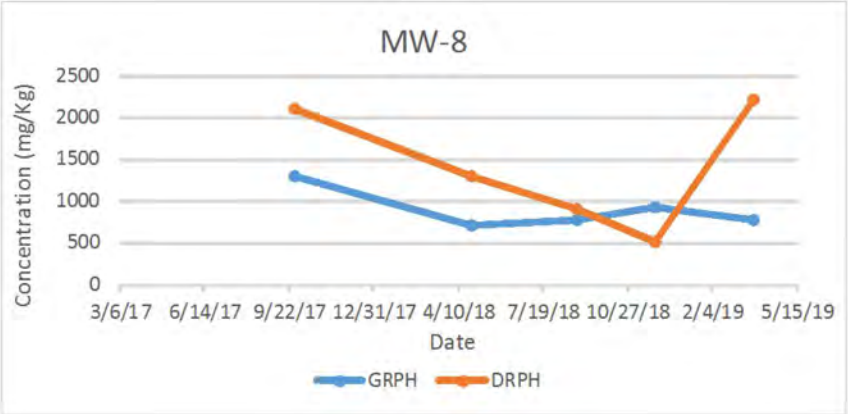

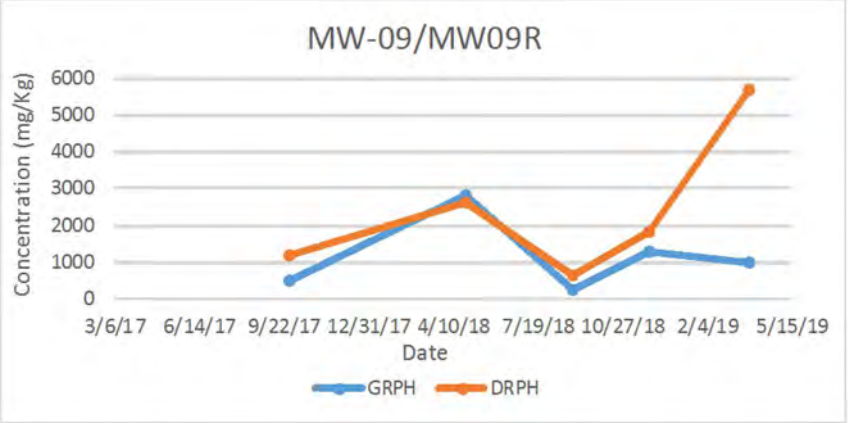

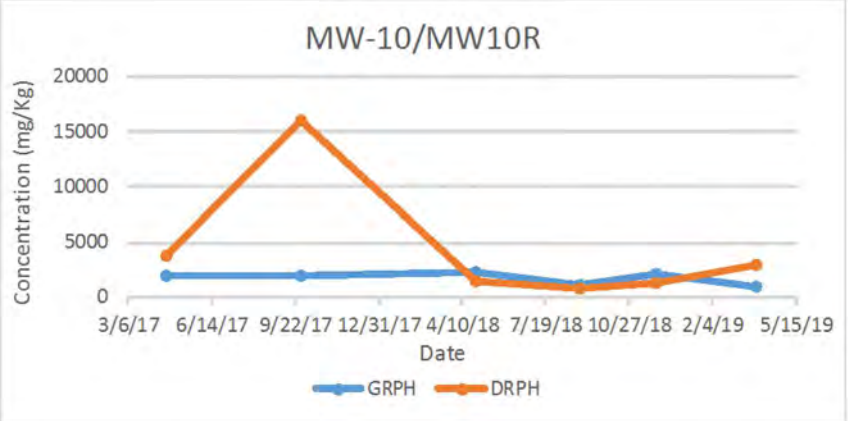

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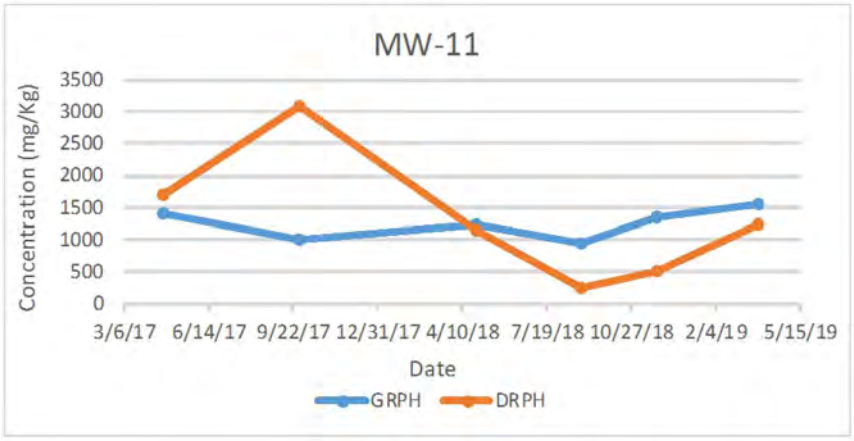
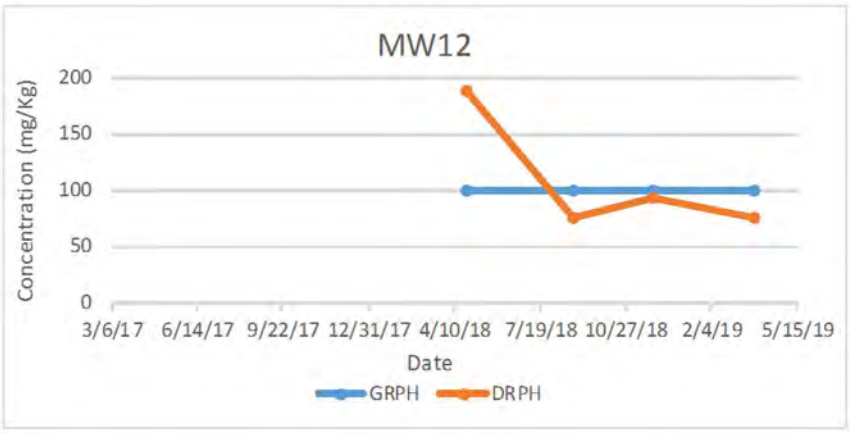
HydroCon

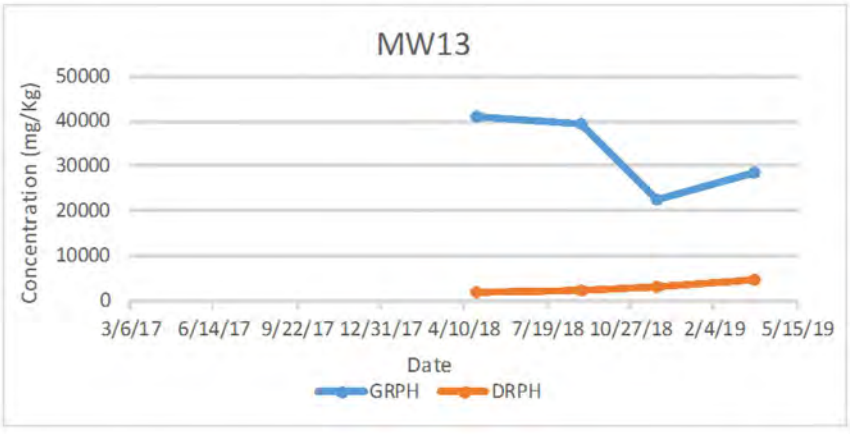
DATE: 5-14-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4D
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







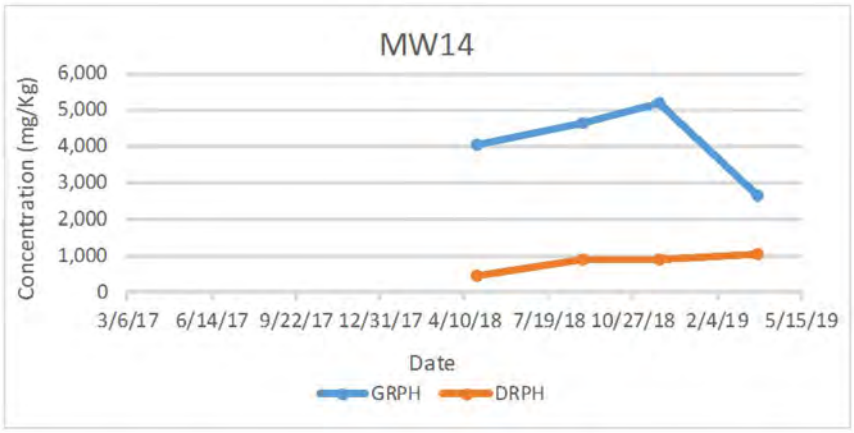
N W E S

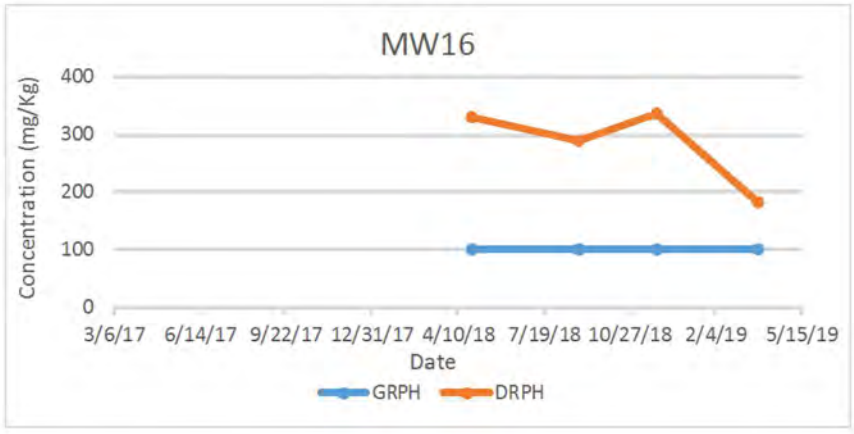
HydroCon

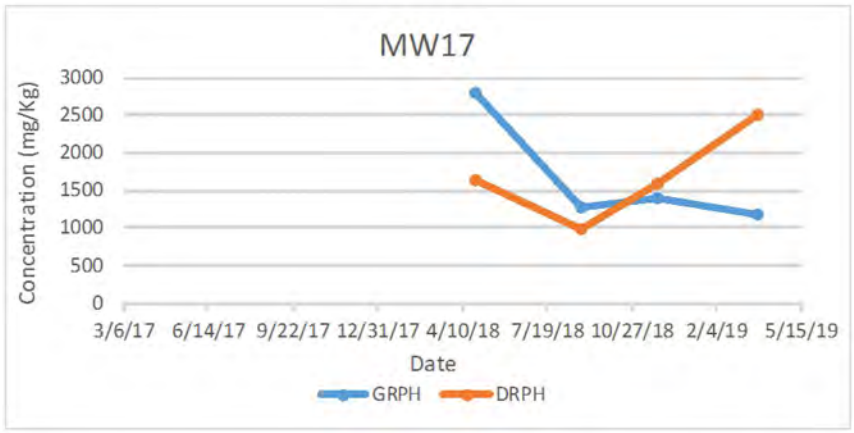
DATE: 5-14-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4E
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







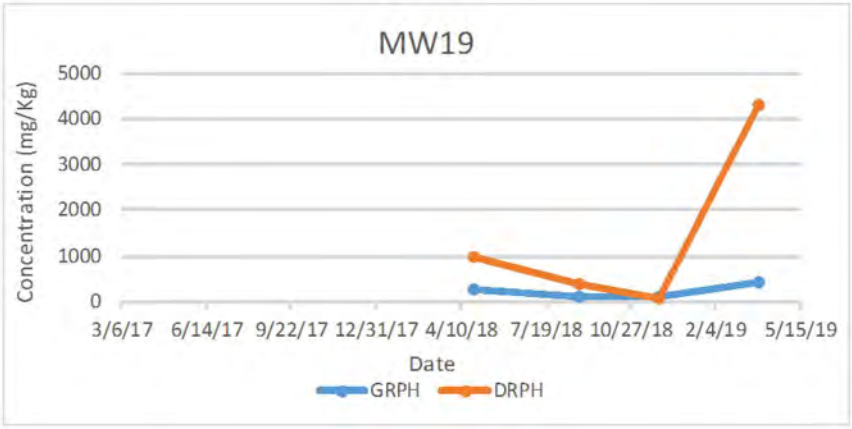
N W E S

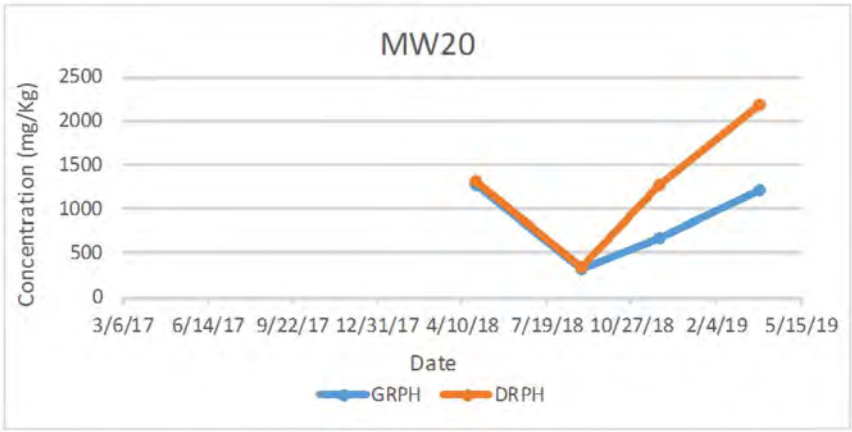
HydroCon

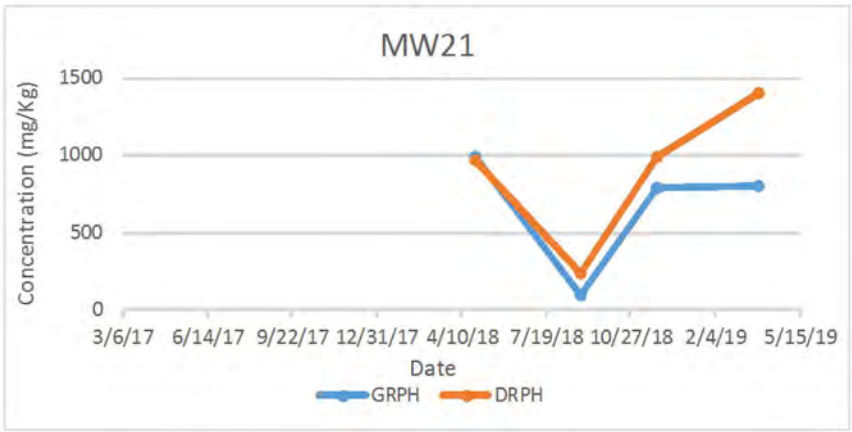
DATE: 5-14-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4F
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.







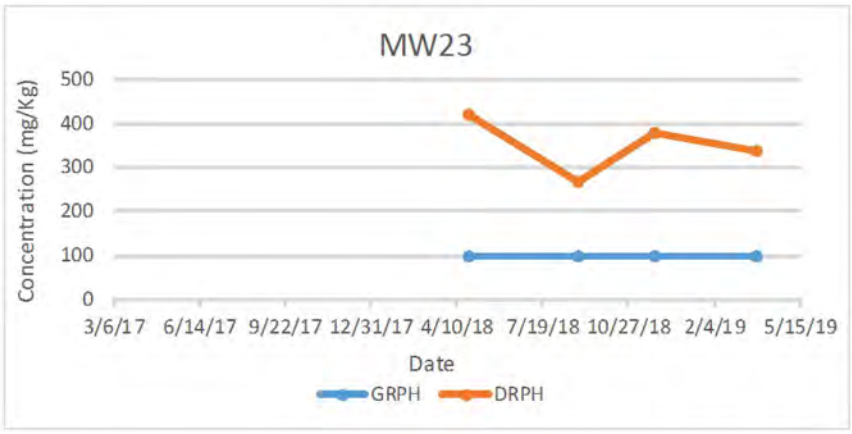
N W E S

HydroCon

DATE: 5-14-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4G
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.



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HydroCon

DATE: 5-14-19
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO: 2017-074

FIGURE 4H
TREND PLOTS

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

LEGEND

- Road
- Railroad
- MW-1 — Monitoring Well (FARALLON)
- MW12 — Monitoring Well (HydroCon)
- BH-1 — Monitoring Well (EPI, 2017)
- RW-1 — Recovery Well (FARALLON)
- MW-4 — Decommissioned Wells
- SL04 — Shoreline Sample Locations
- Containment Booms
- 7,040 — DRPH Concentration ug/L
- >2,000 ug/L
- 1,000-2,000 ug/L
- 500-1,000 ug/L
- Area of seeps in contact with impacted soil
- MTCA Method A Cleanup Level for DRPH = 500 ug/L

MW22
MW21 1,400
MW24 696
MW10R 2,960
?
MW25 302
MW26 591
BH-3 1,850
MW27 185
RW-1 <74.8
FB-9
MW20 2,190
MW28 1,370
BH01R 13,600
MW29 2,930
MW19 4,300
MW30 612
SL05
BH-2 5,310
FB-8
MW31 <74.8
MW09R 5,690
FB-7
FB-3
MW17 2,520
296
MW32
CHEHALIS ST.
MW16 183
MW18
MW-8 2,220
Excavated Areas
SUMP#5
HC02
FB-11
SUMP#6
FB-4
MW-11 1,230
FB-10
FB-5
Former Storage Building
SUMP#3
East-West Trench
North-South Trench
MW15
Former Main Office and Warehouse Building
HC12
MW14 1,070
SUMP#2
MW-6 1,010
MW-7
MW23 339
Former Truck Loading Rack
East-West Trench 2
HC01
EPT1
FB-6
MW-5
West Trench
SUMP#1
EPT3
MW-4
HC10
EPT2
SUMP#4
HC11
MW-2
Former Product Lines
Former Tank Farm B Fuel and Oil ASTs
MW13 4,650
UST Access
Former Pipe Load/Unload
2013 Remedial Excavation
116
MW01S
MW-1/FB-1 126
Control Valve Building
Former Above Ground Pumps
MW03S <76.2
Tank Farm A Fuel ASTs
MW-3
Former Dispenser Island
Cardlock Dispenser Island
<76.2
MW12
Upriver Primary Containment Boom
Downriver Primary Containment Boom
COLUMBIA RIVER
River Bank
S WORTHEN ST.

FIGURE 5
DRPH IN GROUNDWATER
FOR (NOVEMBER 30, 2018)
COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

DATE: 5-29-19
DWN: JJT
CHK: CH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO: 2017-074

HydroCon
510 Allen St. Suite B Kelso, Wa 98626, Ph(360)-703-6086

SCALE IN FEET
1" = 50'
0 50 100

N W E S

C:\Users\Josh\Desktop\Autocad Files\Hydrocon-Autocad\2017-074 Coleman Oil\2019\April 2019\2017-074_BM-052119.dwg

MW22
MW21
799
MW24
<100
MW10R
1,020
MW25
<100
MW26
<100
BH-3
319
MW27
<100
RW-1
<74.8
FB-9
MW20
1,220
MW28
303
BH01R
1,130
MW29
237
MW19
447
MW30
<100
SL05
BH-2
354
FB-8
MW31
<100
FB-7
MW09R
1,000
FB-3
MW17
1,180
<100
MW32
MW16
<100
CHEHALIS ST.
MW-8
768
HC02
SUMP#5
Excavated Areas
FB-11
SUMP#6
FB-4
MW-11
1,540
FB-10
Former Storage Building
FB-5
MW18
SUMP#3
Former Main Office and Warehouse Building
HC12
MW14
2,650
SUMP#2
MW-6
398
East-West Trench 2
West Trench
HC01
EPT1
SUMP#1
HC10
EPT2
SUMP#4
HC11
Former Tank Farm B Fuel and Oil ASTs
MW13
28,500
Former Pipe Load/Unload
Control Valve Building
Former Above Ground Pumps
Tank Farm A Fuel ASTs
East-West Trench
North-South Trench
MW15
MW-7
MW23
<100
Former Truck Loading Rack
FB-6
MW-5
MW-4
EPT3
MW-2
Former Product Lines
UST Access
2013 Remedial Excavation
133
MW01S
MW-1/FB-1
172
MW03S
<100
MW-3
Former Dispenser Island
Cardlock Dispenser Island
<100
MW12
Upriver Primary Containment Boom
Downriver Primary Containment Boom
COLUMBIA RIVER
River Bank
S WORTHEN ST.
?
?
?

LEGEND

- Road
- Railroad
- MW-1 — Monitoring Well (FARALLON)
- MW12 — Monitoring Well (HydroCon)
- BH-1 — Monitoring Well (EPI, 2017)
- RW-1 — Recovery Well (FARALLON)
- MW-4 — Decommissioned Wells
- SL04 — Shoreline Sample Locations
- Containment Booms
- 2,180 — GRPH Concentration
- >5,000 ug/L
- 800-5,000 ug/L
- 100-799 ug/L
- Area of seeps in contact with impacted soil
- MTCA Method A Cleanup Level for GRPH = 800 ug/L

FIGURE 6
GRPH IN GROUNDWATER

COLEMAN OIL COMPANY
3 CHEHALIS ST.
WENATCHEE, WA.

DATE: 5-29-19
DWN: JJT
CHK: CH
APPROVED: CH
PRJ. MGR: CH
PROJECT NO: 2017-074

HydroCon
510 Allen St. Suite B Kelso, Wa 98626, Ph(360)-703-6086

SCALE IN FEET
1" = 50'
0 50 100

N W E S

C:\Users\Josh\Desktop\Autocad Files\Hydrocon-Autocad\2017-074 Coleman Oil\2019\April 2019\2017-074_BM-052119.dwg

TABLES

Table 1
Well Construction Details
Coleman Oil
Wenatchee, Washington

Well ID	Date Installed	Installed By	Drilling Method	Total Boring Depth (feet bgs)	Total Well Depth (feet bgs)	Well Diameter (inch)	Well Construction Material	Screen Slot Size (inch)	Length of Screen (feet)	Length of Bottom Cap (feet)	Screened Interval (feet bgs)	Well Casing Elevation (feet[1])
MW-1	7/7/2010	Farallon	Air Rotary	35.50	35.00	2	PVC	0.01	15	-	20-35	658.01
MW01S	3/4/2018	HydroCon	Sonic	20.00	19.99	4	PVC	0.01	15	0.23	5.37 - 20.37	657.54
MW-2	7/8/2010	Farallon	Air Rotary	40.00	40.00	2	PVC	0.01	15	-	25-40	657.76
MW-3	9/7/2010	Farallon	Air Rotary	35.30	35.00	2	PVC	0.01	10	-	25-35	658.26
MW03S	4/3/2018	HydroCon	Sonic	20.00	19.30	4	PVC	0.01	15	0.23	4.43 - 19.43	658.17
MW-4	9/8/2010	Farallon	Air Rotary	40.10	37.00	2	PVC	0.01	10	-	27-37	657.48
MW-5	9/9/2010	Farallon	Air Rotary	45.40	45.00	2	PVC	0.01	15	-	30-45	656.00
MW-6	4/12/2017	Farallon	Air Rotary	18.40	18.00	4	PVC	0.02	10	-	8-18	657.70
MW-7	4/11/2017	Farallon	Air Rotary	20.10	20.00	4	PVC	0.02	10	-	10-20	657.52
MW-8	4/11/2017	Farallon	Air Rotary	25.20	25.00	4	PVC	0.02	10	-	15-25	656.20
MW-9	4/12/2017	Farallon	Air Rotary	24.50	24.00	4	PVC	0.02	10	-	14-24	655.29
MW09R	8/15/2018	HydroCon	Sonic	35.00	32.60	4	PVC	0.01	25	0.45	8.59-33.59	653.55
MW-10	4/14/2017	Farallon	Air Rotary	30.20	30.00	2	PVC	0.02	16	-	14-30	645.80
MW10R	8/16/2018	HydroCon	Sonic	35.00	33.59	4	PVC	0.01	20	0.45	14.64-34.64	644.30
MW-11	4/14/2017	Farallon	Air Rotary	22.30	22.00	4	PVC	0.02	10	-	12-22	658.00
MW12	4/2/2018	HydroCon	Sonic	20.00	19.52	4	PVC	0.01	15	0.23	4.63 - 19.63	658.27
MW13	3/29/2018	HydroCon	Sonic	50.00	19.80	4	PVC	0.01	15	0.23	4.91 - 19.91	657.04
MW14	3/30/2018	HydroCon	Sonic	35.00	20.02	4	PVC	0.01	15	0.23	5.23 - 20.23	657.15
MW15	4/12/2018	HydroCon	Sonic	35.10	35.10	4	PVC	0.01	25	0.23	10.33 - 35.33	654.99
MW16	4/5/2018	HydroCon	Sonic	30.00	29.15	4	PVC	0.01	20	0.23	9.28 - 29.28	656.93
MW17	4/4/2018	HydroCon	Sonic	35.00	29.41	4	PVC	0.01	20	0.23	9.52 - 29.52	655.55
MW18	4/11/2018	HydroCon	Sonic	35.00	34.65	4	PVC	0.01	20	0.23	15.86 - 35.86	654.51
MW19	4/5/2018	HydroCon	Sonic	35.00	31.48	4	PVC	0.01	20	0.23	11.66 - 31.66	653.31
MW20	4/10/2018	HydroCon	Sonic	30.00	29.50	4	PVC	0.01	20	0.23	9.79 - 29.79	650.85
MW21	4/9/2018	HydroCon	Sonic	35.00	32.10	4	PVC	0.01	20	0.23	12.30 - 32.30	643.88
MW22	4/13/2018	HydroCon	Sonic	40.00	39.10	4	PVC	0.01	25	0.23	9.19 - 34.19	641.85
MW23	3/29/2018	HydroCon	Sonic	25.00	22.04	4	PVC	0.01	15	0.23	7.13 - 22.13	656.91
MW24	8/6/2018	HydroCon	Sonic	35.00	34.25	4	PVC	0.01	20	0.45	14.17-34.17	644.38
MW25	8/7/2018	HydroCon	Sonic	35.00	32.96	4	PVC	0.01	20	0.45	12.81-32.81	645.57
MW26	8/8/2018	HydroCon	Sonic	35.00	32.52	4	PVC	0.01	20	0.45	13.54-33.54	646.65
MW27	8/9/2018	HydroCon	Sonic	40.00	38.74	4	PVC	0.01	25	0.45	13.56-38.56	649.00
MW28	8/10/2018	HydroCon	Sonic	40.00	38.74	4	PVC	0.01	25	0.45	13.62-38.62	650.64
MW29	8/13/2018	HydroCon	Sonic	40.00	39.11	4	PVC	0.01	25	0.45	14.05-39.05	652.34
MW30	8/14/2018	HydroCon	Sonic	40.00	39.79	4	PVC	0.01	25	0.45	14.67-39.67	652.83
MW31	8/15/2018	HydroCon	Sonic	40.00	39.28	4	PVC	0.01	25	0.45	14.11-39.11	653.97
MW32	8/17/2018	HydroCon	Sonic	35.00	34.02	4	PVC	0.01	25	0.45	8.95-33.95	655.83
BH01R	3/25/2017	HydroCon	Sonic	40.00	39.97	4	PVC	0.01	25	0.45	14.52-39.52	651.03
BH-2	3/25/2017	EPI	Air Rotary	35.00	35.00	2	PVC	0.01	15	-	20-35	653.77
BH-3	3/26/2017	EPI	Air Rotary	30.00	30.00	2	PVC	0.01	15	-	15-30	648.76
RW-1	4/10/2017	Farallon	Air Rotary	30.00	30.00	3	PVC	0.02	15	-	15-30	650.42

NOTES:

feet[1] = Elevation is relative to NGVD88

bgs = below ground surface

PVC = polyvinyl chloride

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW-1	4/17/2017	20-35	658.01	9.47	- - -	- - -	648.54
	4/20/2017			9.63	- - -	- - -	648.38
	4/27/2017			10.14	- - -	- - -	647.87
	5/1/2017			10.31	- - -	- - -	647.70
	6/8/2017			11.20	- - -	- - -	646.81
	7/3/2017			NM	- - -	- - -	- - -
	9/28/2017			12.36	- - -	- - -	645.65
	8/27/2018			12.17	- - -	- - -	645.84
	8/31/2018			12.20	- - -	- - -	645.81
	11/26/2018			11.36	- - -	- - -	646.65
	11/30/2018			11.38	- - -	- - -	646.63
	3/29/2019			9.68	- - -	- - -	648.33
MW01S	4/25/2018	5.37 - 20.37	657.54	10.49	- - -	- - -	647.05
	4/27/2018			10.62	- - -	- - -	646.92
	8/27/2018			12.30	- - -	- - -	645.24
	8/31/2018			12.33	- - -	- - -	645.21
	11/26/2018			11.54	- - -	- - -	646.00
	11/30/2018			11.51	- - -	- - -	646.03
	3/29/2019			9.88	- - -	- - -	647.66
MW-2	4/17/2017	25-40	657.76	9.58	- - -	- - -	648.18
	4/20/2017			9.61	- - -	- - -	648.15
	4/27/2017			10.19	- - -	- - -	647.57
	5/1/2017			10.36	- - -	- - -	647.40
	6/8/2017			11.33	- - -	- - -	646.43
	7/3/2017			11.96	- - -	- - -	645.80
	9/28/2017			12.65	- - -	- - -	645.11
	4/25/2018			10.5	- - -	- - -	647.26
	4/27/2018			10.54	- - -	- - -	647.22
	8/27/2018			12.20	- - -	- - -	645.56
	8/31/2018			12.22	- - -	- - -	645.54
	11/26/2018			11.43	- - -	- - -	646.33
	11/30/2018			11.46	- - -	- - -	646.30
	3/29/2019			9.61	- - -	- - -	648.15
MW-3	4/17/2017	25-35	658.26	7.12	- - -	- - -	651.14
	4/20/2017			7.15	- - -	- - -	651.11
	4/27/2017			11.44	- - -	- - -	646.82
	5/1/2017			7.90	- - -	- - -	650.36
	6/8/2017			7.33	- - -	- - -	650.93
	7/3/2017			7.46	- - -	- - -	650.80
	9/28/2017			7.74	- - -	- - -	650.52
	8/27/2018			7.75	- - -	- - -	650.51
	8/31/2018			7.8	- - -	- - -	650.46
	11/26/2018			7.78	- - -	- - -	650.48
	11/30/2018			7.89	- - -	- - -	650.37
	3/29/2019			6.42	- - -	- - -	651.84
MW03S	4/25/2018	4.43 - 19.43	658.17	7.25	- - -	- - -	650.92
	4/27/2018			7.24	- - -	- - -	650.93
	8/27/2018			8.04	- - -	- - -	650.13
	8/31/2018			8.05	- - -	- - -	650.12
	11/26/2018			7.48	- - -	- - -	650.33
	11/30/2018			7.93	- - -	- - -	650.33
	3/29/2019			7.22	- - -	- - -	650.24

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW-4	4/17/2017	27-37	657.48	15.29	- - -	- - -	642.19
	4/20/2017			15.40	- - -	- - -	642.08
	4/27/2017			15.74	- - -	- - -	641.74
	5/1/2017			15.71	- - -	- - -	641.77
	6/8/2017			16.23	- - -	- - -	641.25
	7/3/2017			16.93	- - -	- - -	640.55
	9/28/2017			18.18	- - -	- - -	639.30
	4/25/2018			16.22	- - -	- - -	641.26
	4/27/2018			17.59	- - -	- - -	639.89
	8/27/2018			17.25	- - -	- - -	640.23
	8/31/2018			17.28	- - -	- - -	640.20
	11/26/2018			16.54	- - -	- - -	640.94
	11/30/2018			16.55	- - -	- - -	640.93
	3/29/2019			14.66	- - -	- - -	642.82
MW-5	4/17/2017	30-45	656.00	33.98	- - -	- - -	622.02
	4/20/2017			35.67	- - -	- - -	620.33
	4/27/2017			34.98	- - -	- - -	621.02
	5/1/2017			35.92	- - -	- - -	620.08
	6/8/2017			32.06	- - -	- - -	623.94
	7/3/2017			36.75	- - -	- - -	619.25
	9/28/2017			38.67	- - -	- - -	617.33
	4/25/2018			NM	- - -	- - -	- - -
	4/27/2018			35.58	- - -	- - -	620.42
	8/27/2018			38.21	- - -	- - -	617.79
	8/31/2018			38.3	- - -	- - -	617.70
	11/26/2018			38.34	- - -	- - -	617.66
	11/30/2018			38.44	- - -	- - -	617.56
	3/29/2019			37.58	- - -	- - -	618.42
MW-6	4/17/2017	8-18	657.70	9.57	- - -	- - -	648.13
	4/20/2017			9.40	- - -	- - -	648.30
	4/27/2017			9.89	- - -	- - -	647.81
	5/1/2017			9.95	- - -	- - -	647.75
	6/8/2017			10.60	10.55	0.05	647.14
	7/3/2017			11.10	- - -	- - -	646.60
	9/28/2017			11.51	- - -	- - -	646.19
	4/25/2018			10.20	- - -	- - -	647.50
	4/27/2018			10.21	- - -	- - -	647.49
	8/27/2018			11.28	- - -	- - -	646.42
	8/31/2018			11.29	- - -	- - -	646.41
	11/26/2018			10.82	- - -	trace	646.88
	11/30/2018			10.84	- - -	- - -	646.86
	3/29/2019			9.50	- - -	trace	648.20

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW-7	4/17/2017	10-20	657.52	9.64	- - -	- - -	647.88
	4/20/2017			9.71	- - -	- - -	647.81
	4/27/2017			10.26	- - -	- - -	647.26
	5/1/2017			10.35	- - -	- - -	647.17
	6/8/2017			11.44	- - -	- - -	646.08
	7/3/2017			11.91	- - -	- - -	645.61
	9/28/2017			12.46	- - -	- - -	645.06
	4/25/2018			10.61	- - -	- - -	646.91
	4/27/2018			10.63	- - -	- - -	646.89
	8/27/2018			11.96	- - -	- - -	645.56
	8/31/2018			12.18	- - -	- - -	645.34
	11/26/2018			11.50	- - -	- - -	646.02
	11/30/2018			11.53	- - -	- - -	645.99
	3/29/2019			9.72	- - -	- - -	647.80
MW-8	4/13/2017	15-25	656.20	16.71	14.50	2.21	641.21
	4/17/2017			13.47	- - -	- - -	642.73
	4/20/2017			13.96	13.95	0.01	642.25
	4/27/2017			17.25	14.91	2.34	640.78
	5/1/2017			17.47	14.94	2.53	640.70
	6/8/2017			18.02	- - -	- - -	638.18
	7/3/2017			17.97	17.91	0.07	638.28
	9/28/2017			18.10	- - -	- - -	638.10
	4/25/2018			15.14	- - -	- - -	641.06
	4/27/2018			15.12	- - -	- - -	641.08
	8/27/2018			16.71	- - -	- - -	639.49
	8/31/2018			16.77	- - -	- - -	639.43
	11/26/2018			16.04	- - -	- - -	640.16
	11/30/2018			16.07	- - -	- - -	640.13
	3/29/2019			13.37	- - -	- - -	642.83
MW-9	4/17/2017	14-24	655.29	13.56	- - -	- - -	641.73
	4/20/2017			14.31	- - -	- - -	640.98
	4/27/2017			17.45	16.75	0.70	638.39
	5/1/2017			18.60	17.33	1.27	637.68
	6/8/2017			22.14	- - -	- - -	633.15
	7/3/2017			22.16	- - -	- - -	633.13
	9/28/2017			22.69	- - -	- - -	632.60
	4/25/2018			17.22	- - -	- - -	638.07
	4/27/2018			17.22	- - -	- - -	638.07
MW09R	8/27/2018	8.59-33.59	653.55	19.90	- - -	- - -	635.39
	8/31/2018			19.91	- - -	- - -	635.38
	11/26/2018			28.28	- - -	- - -	625.27
	11/30/2018			19.94	- - -	- - -	633.61
	3/29/2019			12.82	- - -	- - -	640.73
MW-10	4/17/2017	14-30	645.80	16.72	- - -	- - -	629.08
	4/20/2017			17.31	- - -	- - -	628.49
	4/27/2017			18.11	- - -	- - -	627.69
	5/1/2017			18.99	- - -	- - -	626.81
	6/8/2017			19.88	- - -	- - -	625.92
	7/3/2017			25.06	23.62	1.44	621.86
	9/28/2017			25.70	- - -	- - -	620.10
	4/25/2018			21.18	- - -	- - -	624.62
	4/27/2018			20.96	- - -	- - -	624.84

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW10R	8/27/2018	14.66-34.64	644.30	24.64	- - -	- - -	619.66
	8/31/2018			25.71	- - -	- - -	618.59
	11/26/2018			27.51	- - -	- - -	616.79
	11/30/2018			26.19	25.95	0.24	618.30
	3/29/2019			18.54	- - -	- - -	625.76
MW-11	4/17/2017	12-22	658.00	13.45	- - -	- - -	644.55
	4/20/2017			13.45	- - -	- - -	644.55
	4/27/2017			13.76	- - -	- - -	644.24
	5/1/2017			13.77	- - -	- - -	644.23
	6/8/2017			14.32	14.05	0.27	643.89
	7/3/2017			14.30	- - -	- - -	643.70
	9/28/2017			14.65	- - -	- - -	643.35
	4/25/2018			13.82	- - -	- - -	644.18
	4/27/2018			13.82	- - -	- - -	644.18
	8/27/2018			14.20	- - -	- - -	643.80
	8/31/2018			14.21	- - -	- - -	643.79
	11/26/2018			14.11	- - -	- - -	643.89
	11/30/2018			14.11	- - -	- - -	643.89
	3/29/2019			13.41	- - -	- - -	644.59
MW12	4/25/2018	4.63 - 19.63	658.27	7.37	- - -	- - -	650.90
	4/27/2018			7.31	- - -	- - -	650.96
	8/27/2018			8.01	- - -	- - -	650.26
	8/31/2018			8.04	- - -	- - -	650.23
	11/26/2018			7.88	- - -	- - -	650.39
	11/30/2018			7.93	- - -	- - -	650.34
	3/29/2019			7.13	- - -	- - -	651.14
MW13	4/25/2018	4.91 - 19.91	657.04	7.39	- - -	- - -	649.65
	4/27/2018			7.36	- - -	- - -	649.68
	8/27/2018			8.05	- - -	- - -	648.99
	8/31/2018			8.15	- - -	- - -	648.89
	11/26/2018			8.22	- - -	- - -	648.82
	11/30/2018			8.17	- - -	- - -	648.87
	3/29/2019			7.21	- - -	- - -	649.83
MW14	4/25/2018	5.23 - 20.23	657.15	7.81	- - -	- - -	649.34
	4/27/2018			7.75	- - -	- - -	649.40
	8/27/2018			8.35	- - -	- - -	648.80
	8/31/2018			8.40	- - -	- - -	648.75
	11/26/2018			8.45	- - -	- - -	648.70
	11/30/2018			8.51	- - -	- - -	648.64
	3/29/2019			7.70	- - -	- - -	649.45
MW15	4/25/2018	10.33 - 35.33	654.99	NM	- - -	- - -	- - -
	4/27/2018			34.80	- - -	- - -	620.19
	8/27/2018			34.76	- - -	- - -	620.23
	8/31/2018			34.82	- - -	- - -	620.17
	11/26/2018			dry	- - -	- - -	- - -
	11/30/2018			dry	- - -	- - -	- - -
	3/29/2019			dry	- - -	- - -	- - -
MW16	4/25/2018	9.28 - 29.28	656.93	9.72	- - -	- - -	647.21
	4/27/2018			9.70	- - -	- - -	647.23
	8/27/2018			10.05	- - -	- - -	646.88
	8/31/2018			10.18	- - -	- - -	646.75
	11/26/2018			10.07	- - -	- - -	646.86
	11/30/2018			9.73	- - -	- - -	647.20
	3/29/2019			9.44	- - -	- - -	647.49

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW17	4/25/2018	9.52 - 29.52	655.55	14.25	- - -	- - -	641.30
	4/27/2018			14.22	- - -	- - -	641.33
	8/27/2018			15.07	- - -	- - -	640.48
	8/31/2018			15.14	- - -	- - -	640.41
	11/26/2018			14.78	- - -	- - -	640.77
	11/30/2018			14.66	- - -	- - -	640.89
	3/29/2019			13.38	- - -	- - -	642.17
MW18	4/25/2018	15.86 - 35.86	654.51	NM	- - -	- - -	- - -
	4/27/2018			34.69	- - -	- - -	619.82
	8/27/2018			dry	- - -	- - -	- - -
	8/31/2018			dry	- - -	- - -	- - -
	11/26/2018			dry	- - -	- - -	- - -
	11/30/2018			dry	- - -	- - -	- - -
	3/29/2019			dry	- - -	- - -	- - -
MW19	4/25/2018	11.66 - 31.66	653.31	23.05	- - -	- - -	630.26
	4/27/2018			23.15	- - -	- - -	630.16
	8/27/2018			28.63	- - -	- - -	624.68
	8/31/2018			28.83	- - -	- - -	624.48
	11/26/2018			dry	- - -	- - -	- - -
	11/30/2018			27.72	- - -	- - -	625.59
	3/29/2019			21.3	- - -	- - -	632.01
MW20	4/25/2018	9.79 - 29.79	650.85	18.55	- - -	- - -	632.30
	4/27/2018			18.64	- - -	- - -	632.21
	8/27/2018			24.97	- - -	- - -	625.88
	8/31/2018			25.24	- - -	- - -	625.61
	11/26/2018			25.20	- - -	- - -	625.65
	11/30/2019			24.95	- - -	- - -	625.90
	3/29/2019			13.32	- - -	- - -	637.53
MW21	4/25/2018	12.30 - 32.30	643.88	19.40	- - -	- - -	624.48
	4/27/2018			19.31	- - -	- - -	624.57
	8/27/2018			20.88	- - -	- - -	623.00
	8/31/2018			21.36	- - -	- - -	622.52
	11/26/2018			20.42	- - -	- - -	623.46
	11/30/2018			20.71	- - -	- - -	623.17
	3/29/2019			19.67	- - -	- - -	624.21
MW22	4/25/2018	9.19 - 34.19	641.85	21.80	- - -	- - -	620.05
	4/27/2018			21.80	- - -	- - -	620.05
	8/27/2018			23.72	- - -	- - -	618.13
	8/31/2018			24.46	- - -	- - -	617.39
	11/26/2018			23.49	- - -	- - -	618.36
	11/30/2018			24.74	- - -	- - -	617.11
	3/29/2019			24.9	- - -	- - -	616.95
MW23	4/25/2018	7.13 - 22.13	656.91	10.28	- - -	- - -	646.63
	4/27/2018			10.30	- - -	- - -	646.61
	8/27/2018			12.16	- - -	- - -	644.75
	8/31/2018			11.99	- - -	- - -	644.92
	11/26/2018			11.27	- - -	- - -	645.64
	11/30/2019			11.3	- - -	- - -	645.61
	3/29/2019			9.36	- - -	- - -	647.55
MW24	8/27/2018	14.17 - 34.17	644.38	26.03	- - -	- - -	618.35
	8/31/2018			26.77	- - -	- - -	617.61
	11/26/2018			27.11	- - -	- - -	617.27
	11/30/2018			27.05	- - -	- - -	617.33
	3/29/2019			24.75	- - -	- - -	619.63

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW25	8/27/2018	12.81 - 32.81	645.57	26.01	- - -	- - -	619.56
	8/31/2018			26.49	- - -	- - -	619.08
	11/26/2018			24.96	- - -	- - -	620.61
	11/30/2018			25.19	- - -	- - -	620.38
	3/29/2019			13.45	- - -	- - -	632.12
MW26	8/27/2018	13.54 - 33.54	646.65	25.23	- - -	- - -	621.42
	8/31/2018			25.76	- - -	- - -	620.89
	11/26/2018			25.45	- - -	- - -	621.20
	11/30/2018			25.83	- - -	- - -	620.82
	3/29/2019			16.35	- - -	- - -	630.30
MW27	8/27/2018	13.56 - 38.56	649.00	24.87	- - -	- - -	624.13
	8/31/2018			25.06	- - -	- - -	623.94
	11/26/2018			24.92	- - -	- - -	624.08
	11/30/2018			23.90	- - -	- - -	625.10
	3/29/2019			20.04	- - -	- - -	628.96
MW28	8/27/2018	13.62 - 38.62	650.64	26.04	- - -	- - -	624.60
	8/31/2018			26.25	- - -	- - -	624.39
	11/26/2018			33.05	- - -	- - -	617.59
	11/30/2018			25.00	- - -	- - -	625.64
	3/29/2019			20.50	- - -	- - -	630.14
MW29	8/27/2018	14.05 - 39.05	652.34	34.43	- - -	- - -	617.91
	8/31/2018			34.84	- - -	- - -	617.50
	11/26/2018			34.92	- - -	- - -	617.42
	11/30/2018			34.25	- - -	- - -	618.09
	3/29/2019			20.80	- - -	- - -	631.54
MW30	8/27/2018	14.67 - 39.67	652.83	34.73	- - -	- - -	618.10
	8/31/2018			35.01	- - -	- - -	617.82
	11/26/2018			34.91	- - -	- - -	617.92
	11/30/2018			34.84	- - -	- - -	617.99
	3/29/2019			35.28	- - -	- - -	617.55
MW31	8/27/2018	14.11 - 39.11	653.97	34.55	- - -	- - -	619.42
	8/31/2018			35.16	- - -	- - -	618.81
	11/26/2018			35.04	- - -	- - -	618.93
	11/30/2019			34.96	- - -	- - -	619.01
	3/29/2019			32.45	- - -	- - -	621.52
MW32	8/27/2018	8.95 - 33.95	655.83	12.41	- - -	- - -	643.42
	8/31/2018			12.43	- - -	- - -	643.40
	11/26/2018			12.28	- - -	- - -	643.55
	11/30/2019			12.25	- - -	- - -	643.58
	3/29/2019			11.13	- - -	- - -	644.70
BH-1	4/17/2017	20-30	652.17	19.71	- - -	- - -	632.46
	4/20/2017			20.13	- - -	- - -	632.04
	4/27/2017			22.88	- - -	- - -	629.29
	5/1/2017			23.16	- - -	- - -	629.01
	6/8/2017			25.64	- - -	- - -	626.53
	7/3/2017			28.46	27.91	0.55	624.14
	9/28/2017			28.73	- - -	- - -	623.44
	4/25/2018			23.03	- - -	- - -	629.14
	4/27/2018			20.03	- - -	- - -	632.14
	8/27/2018			26.21	- - -	- - -	625.96
	8/31/2018			26.27	- - -	- - -	625.90
	11/26/2018			NM	- - -	- - -	- - -
	11/30/2018			NM	- - -	- - -	- - -
BH01R	3/29/2019	14.52-39.52	651.03	20.3	- - -	- - -	630.73

Table 2
Depth to Water/Groundwater Elevation
Coleman Oil
Wenatchee, Washington

Well Identification	Date	Monitoring Well Screened Interval (feet bgs)	Elevation Top of Casing [1] (feet)	Depth to Water (feet below top of casing)	Depth to NAPL (feet below top of casing)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
BH-2	4/17/2017	20-35	653.77	26.16	- - -	- - -	627.61
	4/20/2017			26.30	- - -	- - -	627.47
	4/27/2017			26.56	26.48	0.08	627.27
	5/1/2017			26.68	26.58	0.10	627.17
	6/8/2017			26.73	- - -	- - -	627.04
	7/3/2017			28.86	- - -	- - -	624.91
	9/28/2017			31.25	- - -	- - -	622.52
	4/25/2018			27.68	- - -	- - -	626.09
	4/28/2017			27.53	- - -	- - -	626.24
	8/27/2018			28.50	- - -	- - -	625.27
	8/31/2018			28.91	- - -	- - -	624.86
	11/26/2018			28.66	- - -	trace	625.11
	11/30/2018			28.63	- - -	trace	625.14
	3/29/2019			27.75	- - -	- - -	626.02
BH-3	4/17/2017	15-30	648.76	17.47	- - -	- - -	631.29
	4/20/2017			17.88	- - -	- - -	630.88
	4/27/2017			18.70	- - -	- - -	630.06
	5/1/2017			19.06	- - -	- - -	629.70
	6/8/2017			21.19	- - -	- - -	627.57
	7/3/2017			21.70	- - -	- - -	627.06
	9/28/2017			23.04	- - -	- - -	625.72
	4/25/2018			20.06	- - -	- - -	628.70
	4/27/2018			22.36	- - -	- - -	626.40
	8/27/2018			22.20	- - -	- - -	626.56
	8/31/2018			23.68	- - -	- - -	625.08
	11/26/2018			24.05	- - -	- - -	624.71
	11/30/2018			25.29	- - -	- - -	623.47
	3/29/2019			18.05	- - -	- - -	630.71
RW-1	4/17/2017	15-30	650.42	16.15	- - -	- - -	634.27
	4/20/2017			16.34	- - -	- - -	634.08
	4/27/2017			17.35	- - -	- - -	633.07
	5/1/2017			18.55	- - -	- - -	631.87
	6/8/2017			22.67	- - -	- - -	627.75
	7/3/2017			24.19	- - -	- - -	626.23
	9/28/2017			26.74	- - -	- - -	623.68
	4/25/2018			21.19	- - -	- - -	629.23
	4/27/2018			21.21	- - -	- - -	629.21
	8/27/2018			25.09	- - -	- - -	625.33
	8/31/2018			25.69	- - -	- - -	624.73
	11/26/2018			28.81	- - -	- - -	621.61
	11/30/2018			25.63	- - -	- - -	624.79
	3/29/2019			21.12	- - -	- - -	629.30

NOTES:

- - - denotes no LNAPL present

[1]Elevation in feet above mean sea level. Elevations based on NAVD88 vertical datum. Well survey conducted by Munson Engineers, Inc. of Wenatchee, Washington in July 2010 and April 2017.

bgs = below ground surface
LNAPL = light nonaqueous-phase liquid
NAPL = nonaqueous-phase liquid

Groundwater elevations in wells with LNAPL corrected for water-level elevation using typical specific gravity of R99 LNAPL of 0.78.

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles								Metals
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC	Total Lead
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		**800/1000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**160**	**20**	**0.01**	**5**	**15**
Benzene (Non Detect)		**1,000**											
Benzene (Detect)		**800**											
Field ID	**Date**												
FB-9	4/7/2017	**1,200** F	**2,900**	**1,200**	2.4	< 1.0	3.7	1.7	--	--	--	--	--
FB-10	4/7/2017	**2,000** F	**57,000**	**< 4,100**	**71**	13	7.1	64	--	--	--	--	--
BH-1	4/21/2017	**820** F	**1,900**	**970** N1	**15**	2.8	8.3	18.5	--	--	--	--	--
	4/26/2018	**2,140**	**1,390**	<377	0.671	<1.00	5.55	12.5	--	--	--	--	--
	8/30/2018	591	243	<148	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	12/1/2018	**1,420**	**5,120** F13	<151	<0.200	<1.00	0.608	<1.50	--	--	--	--	--
BH01R	3/27/2019	**1,130**	**13,600 F-13**	<151	4.33	<1.00	1.15	1.78	--	--	--	--	--
BH-2	4/10/2017	**1,900** F	**100,000**	**10,000**	< 4.0	< 4.0	13	39	--	--	--	--	--
	4/21/2017	**1,500** F	**2,600**	**630** N1	4.2	3.3	12	39	--	--	--	--	--
	4/24/2018	**854**	**9,360**	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	8/28/2018	639	**3,300**	<148	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/30/2018	509	**7,040**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/27/2019	354	**5310 F-13, F-15**	475 F-03, F-16	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
BH-3	4/21/2017	**1,800** F	**2,400**	**660**	1.8	<1.0	5.4	8.2	--	--	--	--	--
	9/29/2017	150 O	**1,200**	**550** N1	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	4/26/2018	172	**1,130**	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	8/30/2018	250	276	<148	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/29/2018	<100	**502**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/28/2019	319	**1,850 F-13**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles								Metals
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC	Total Lead
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		**800/1000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**160**	**20**	**0.01**	**5**	**15**
Benzene (Non Detect)		**1,000**											
Benzene (Detect)		**800**											
Field ID	**Date**												
RW-1	4/21/2017	<100	**840**	**540** N1	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	9/29/2017	<100	360	440	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	4/26/2018	<100	<189	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	8/30/2018	<100	327	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/30/2018	<100	152	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/28/2019	<100	<74.8 F-13	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW-1	3/23/2017	---	**520**	480	---	---	---	---	--	--	--	--	--
	4/21/2017	210 F	**730**	**510**	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	9/29/2017	200	410	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	8/28/2018	449	219	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/27/2018	152	159	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/25/2019	172	126 F-11,F-20	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW01S	4/24/2018	188	<187	<374	0.42	<1.00	5.8	9.48	--	--	--	--	<0.200
	8/28/2018	268	294	<151	1.49	<1.00	1.26	<1.50	--	--	--	--	--
	11/27/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/25/2019	133	116F-11, F-20	<151	<0.200	<1.00	4.18	8.97	--	--	--	--	--
MW-2	3/23/2017	---	<260	<410	---	---	---	---	--	--	--	--	--
	4/20/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	4/25/2018	<100	<187	<374	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles								Metals
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC	Total Lead
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		**800/1000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**160**	**20**	**0.01**	**5**	**15**
Benzene (Non Detect)		**1,000**											
Benzene (Detect)		**800**											
Field ID	**Date**												
MW-3	4/20/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	9/28/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
MW03S	4/25/2018	<100	<187	<374	<0.200	<1.00	<0.500	<1.50	<2.00	<1.00	<0.500	<0.400	--
	8/29/2018	<100	139	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/27/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/25/2019	<100	<76.2	<152	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW-4	3/23/2017	---	<260	<410	---	---	---	---	--	--	--	--	--
	4/20/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	9/28/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	4/25/2018	<100	<187	<374	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW-5	3/23/2017	---	<260	<410	---	---	---	---	--	--	--	--	--
	4/20/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	9/28/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	4/25/2018	<100	<189	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	8/28/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW-6	4/20/2017	**880** F	**1,800**	480 N1	**5.0**	<4.0	6.2	37	--	--	--	--	--
	9/28/2017	530 O	**760**	430 N1	<1.0	<1.0	<1.0	4.3	--	--	--	--	--
	4/25/2018	643	**1,620**	<374	0.56	<1.00	<0.500	2.19	--	--	--	--	0.375
	8/29/2018	376	**668**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/27/2018	499	**634**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/25/2019	398	**1,010 F-13,F-20**	<152	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles								Metals
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC	Total Lead
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		**800/1000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**160**	**20**	**0.01**	**5**	**15**
Benzene (Non Detect)		**1,000**											
Benzene (Detect)		**800**											
Field ID	**Date**												
MW-7	4/20/2017	**1,100** F	**1,300**	420 N1	3.2	< 1.0	15	11.4	--	--	--	--	--
	9/28/2017	<100	**520**	<470 U1	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--
	4/25/2018	<100	435	<374	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	8/29/2018	<100	448	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/28/2018	<100	283	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW-8	9/29/2017	**1,300** O	**2,100**	**690** N1	<1.0	<1.0	4.1	27.2	--	--	--	--	--
	4/26/2018	720	**1,300**	<374	0.641	<1.00	<0.500	4.67	--	--	--	--	--
	8/29/2018	774	**907**	<151	<0.200	<1.00	<0.500	3.42	--	--	--	--	--
	11/28/2018	**921**	**505**	<151	0.214	<1.00	1.06	6.23	--	--	--	--	--
	3/26/2019	768	**2,220 F-13,F-20**	<152	**22.2**	<1.00	<0.500	2.70	--	--	--	--	--
MW-9	9/29/2017	500 O	**1,200**	**670** N1	<1.0	<1.0	<1.0	1.5	--	--	--	--	--
	4/26/2018	**2,810**	**2,620**	<374	2.73	<1.00	9.95	20.4	--	--	--	--	--
MW-9R	8/29/2018	234	**654**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/28/2018	**1,300**	**1,850**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/26/2019	**1,000**	**5,690 F-13,F-20**	<151	**5.64**	<1.00	0.545	<1.50	--	--	--	--	--
MW-10	4/21/2017	**1,900** F	**3,800**	**730**	3.4	< 1.0	11	12.5	--	--	--	--	--
	9/29/2017	**1,900** O	**16,000**	**1,300** N1	<1.0	<1.0	13	26.7	--	--	--	--	--
	4/26/2018	**2,290**	**1,500**	<377	0.219	<1.00	3.52	5.95	--	--	--	--	--
MW-10R	8/30/2018	**1,080**	**838**	< 150	< 0.200	< 1.00	1.22	2.42	--	--	--	--	--
	11/29/2018	**2,160**	**1,370**	<755 **ec**	<0.200	<1.00	3.90	5.98	--	--	--	--	--
	3/28/2019	**1,020**	**2,960 F-13**	<151	0.401	<1.00	0.837	<1.50	--	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles								Metals
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC	Total Lead
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		**800/1000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**160**	**20**	**0.01**	**5**	**15**
Benzene (Non Detect)		**1,000**											
Benzene (Detect)		**800**											
Field ID	**Date**												
MW-11	4/21/2017	**1,400** F	**1,700**	**1,000** N1	**28**	4.1	8.2	26.1	--	--	--	--	--
	9/29/2017	**1,000** O	**3,100**	**720** N1	<1.0	<1.0	1.9	12.5	--	--	--	--	--
	4/26/2018	**1,240**	**1,140**	<374	<0.200	<1.00	0.56	2.27	--	--	--	--	--
	8/29/2018	**944**	251	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/27/2018	**1,350**	**503**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/26/2019	**1,540**	**1,230 F-13,F-20**	<150	**11.6**	<1.00	<0.500	2.34	--	--	--	--	--
MW12	4/25/2018	<100	<189	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	8/28/2018	<100	<74.8	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/27/2018	<100	92.8	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/25/2019	<100	<76.2	<152	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW13	4/25/2018	**40,900**	**1,790**	<377	**1,500**	**4,710**	627	**3,780**	--	--	--	--	0.446
	8/29/2018	**39,300**	**2,500**	<150	**1,780**	**3,010**	**796**	**4,850**	**167**	**<50.0** ec	**<25.0** ec	**<25.0** ec	--
	11/27/2018	**22,400**	**3,250**	<151	**1,380**	271	458	**3,170**	--	--	--	--	--
	3/25/2019	**28,500**	**4,650 F-11,F-20**	<151	**701**	761	**804**	**4,980**	--	--	--	--	--
MW14	8/29/2018	**4,040**	487	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	4/25/2018	**4,620**	**900**	<374	**13.1**	<1.00	16.1	<1.50	3.21	<1.00	<0.500	<0.400	--
	11/27/2018	**5,170**	**933**	<151	**15.2**	<1.00	1.70	<1.50	--	--	--	--	--
	3/25/2019	**2,650**	**1,070 F-11,F-20**	<151	**17.8**	<1.00	2.04	<1.50	--	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles								Metals
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC	Total Lead
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		**800/1000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**160**	**20**	**0.01**	**5**	**15**
Benzene (Non Detect)		**1,000**											
Benzene (Detect)		**800**											
Field ID	**Date**												
MW15	4/25/2018 iw	--	--	--	--	--	--	--	--	--	--	--	--
	8/29/20018 iw	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/2018 iw	--	--	--	--	--	--	--	--	--	--	--	--
	3/26/2019 iw	--	--	--	--	--	--	--	--	--	--	--	--
MW16	4/26/2018	<100	330	<374	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	8/29/2018	<100	298	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/28/2018	<100	337	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/26/2019	<100	183 F-11	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW17	4/26/2018	**2,800**	**1,630**	<377	1.23	<1.00	1.62	7.66	4.72	<1.00	<0.500	<0.400	--
	8/29/2018	**1,270**	**986**	<150	0.450	<1.00	<0.500	<1.50	5.61	<1.00	**<0.500** ec	<0.500	--
	11/28/2018	**1,390**	**1,580**	<151	0.305	<1.00	<0.500	<1.50	--	--	--	--	--
	3/26/2019	**1,180**	**2,520 F-13,F-20**	<151	2.91	<1.00	0.692	1.50	--	--	--	--	--
MW18	4/26/2018 iw	--	--	--	--	--	--	--	--	--	--	--	--
	8/2920018 iw	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/2018 iw	--	--	--	--	--	--	--	--	--	--	--	--
	3/26/2019 iw	--	--	--	--	--	--	--	--	--	--	--	--
MW19	4/26/2018	280	**979**	<377	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	8/27/2018	<100	406	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/30/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/28/2019	447	**4,300 F-13**	<151	0.673	<1.00	<0.500	<1.50	--	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles								Metals
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC	Total Lead
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		**800/1000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**160**	**20**	**0.01**	**5**	**15**
Benzene (Non Detect)		**1,000**											
Benzene (Detect)		**800**											
Field ID	**Date**												
MW20	4/26/2018	**1,270**	**1,320**	<377	<0.200	<1.00	1.56	5.44	--	--	--	--	--
	8/30/2018	320	346	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/29/2018	674	**1,280**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/28/2019	**1,220**	**2,190 F-13**	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW21	4/26/2018	**991**	**965**	<374	<0.200	<1.00	0.835	1.82	--	--	--	--	--
	8/30/2018	<100	234	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/27/2018	789	**992**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/28/2019	799	**1,400 F-13**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW22	4/26/2018	**6,960**	**4,690**	<377	**118**	28.8	102	196	--	--	--	--	<0.200
	8/30/2018	**2,040**	**1,150**	**<748** ec	**30.4**	5.34	30.5	55.9	--	--	--	--	--
MW23	4/25/2018	<100	419	<381	<0.200	<1.00	<0.500	<1.50	--	--	--	--	<0.200
	8/29/2018	<100	266	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/27/2018	<100	380	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/25/2019	<100	339 F-11	<152	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW24	8/30/2018	<100	220	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/29/2018	154	**914**	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/28/2019	<100	**696 F-13**	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW25	8/30/2018	<100	<74.8	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/27/2018	<100	121	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/28/2019	<100	302 F-11	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles								Metals
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC	Total Lead
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		**800/1000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**160**	**20**	**0.01**	**5**	**15**
Benzene (Non Detect)		**1,000**											
Benzene (Detect)		**800**											
Field ID	**Date**												
MW26	8/30/2018	<100	128	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/29/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/28/2019	<100	**591 F-13**	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW27	8/30/2018	<100	118	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/29/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/28/2019	<100	185 F-13	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW28	8/30/2018	<100	105	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	12/1/2018	385	486	<158	0.208	<1.00	<0.500	<1.50	--	--	--	--	--
	3/27/2019	303	**1,370 F-13**	<151	1.30	<1.00	<0.500	<1.50	--	--	--	--	--
MW29	8/28/2018	<100	459	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/29/2018	<100	238	**809**	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/27/2019	237	**2,930 F-13,F-15**	**928 F-16**	1.64	<1.00	<0.500	<1.50	--	--	--	--	--

Table 3
Groundwater Analytical Results - Fuels and VOCs
Coleman Oil Site
Wenatchee, Washington

		Fuels			Volatiles								Metals
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC	Total Lead
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup for Groundwater		**800/1000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**160**	**20**	**0.01**	**5**	**15**
Benzene (Non Detect)		**1,000**											
Benzene (Detect)		**800**											
Field ID	**Date**												
MW30	8/28/2018	<100	193	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	11/29/2018	<100	304	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/27/2019	<100	**612 F-13**	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW31	8/28/2018	<100	<74.1	<148	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	12/1/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/27/2019	<100	<74.8	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
MW32	8/29/2018	139	161	<148	<0.200	<1.00	<0.500	<1.50	<2.00	<1.00	**<0.500** ec	<0.500	--
	11/28/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--
	3/26/2019	<100	296 F-11	<150	<0.200	<1.00	<0.500	<1.50	--	--	--	--	--

Notes:
Red denotes concentration in excess of MTCA Method Cleanup Level for Groundwater.
MTCA Method A Cleanup Levels, WAC 173-340-720 through 173-340-760, revised Nov., 2007
GRPH (gasoline range petroleum hydrocarbons) analyzed by Method NWTPH-Gx.
DRPH (diesel range petroleum hydrocarbons) and ORPH (oil range petroleum hydrocarbons) analyzed by Method NWTPH-Dx.
VOCs = volatile organic compounds
VOCs analyzed by EPA Method 8260C
Total Lead by EPA Method 6020
< = less than method reporting limit shown
--- = not analyzed. MW15 and MW18 not sampled due to lack of water in the well.
ec = Method reporting limit exceeds Clean Up Level shown.
F and O = hydrocarbons indicative of heavier fuels are present in sample and impacting the gasoline result (Farallon 2017b)
N1 = hydrocarbons in the diesel-range are impacting the oil result (Farallon 2017b)
U1 = the practical quantitation limit is elevated due to interferences present in the sample (Farallon 2017b)
F-03 = The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
F-11 = The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
F-13 = The chromatographic pattern does not resemble the fuel standard used for quantitation.
F-15 = Results for diesel are estimated due to overlap from the reported oil result.
F-16 = Results for oil are estimated due to overlap from the reported diesel result.
F-20 = Result for Diesel is estimated due to overlap from Gasoline Range Organics or other VOCs.
S-02 = Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-06 = Surrogate recovery is outside of established control limits.

Table 4
Groundwater Analytical Results - PAHs
Coleman Oil Site
Wenatchee, Washington

	Acenaphthene	Acenaphthylene	Anthracene	Benz [a] anthracene	Benzo [a] pyrene	Benzo [b] fluoranthene	Benzo [k] fluoranthene	Benzo (g,h,i) perylene	Chrysene	Dibenz [a,h] anthracene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup Level for Groundwater					**0.1**					
Field ID	**Date**									
MW21	4/26/2018	0.193	<0.0935	0.145	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
MW22	4/26/2018	113	<12.3	8.48	0.284	<0.0943	<0.0943	<0.0943	0.243	<0.0943
	8/30/2018	43.4	4.21	3.32	0.156	<0.0374	<0.0374	<0.0374	0.156	<0.0374
MW32	8/29/2018	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370	<0.0370

	Dibenzofuran	Fluoranthene	Fluorene	Indeno [1,2,3-cd] pyrene	1- Methyl-naphthalene	2-Methyl- naphthalene	Naphthalene	Phenanthrene	Pyrene	TEQ
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WA MTCA Method A Cleanup Level for Groundwater							**160**			**0.1**
Field ID	**Date**									
MW21	4/26/2018	0.103	<0.0935	0.144	<0.0935	1.48	0.494	1.16	<0.0935	<0.0935	0.0706
MW22	4/26/2018	8.55	3.2	36.7	<0.0943	298	210	**692**	36.6	4.30	0.0968
	8/30/2018	3.34	1.49	14.0	<0.0374	94.2	92.2	**189**	13.7	2.43	0.0433
MW32	8/29/2018	<0.0370	<0.0370	0.0382	<0.0370	<0.0741	<0.0741	<0.0833	<0.0370	<0.0370	0.0279

Notes:
Red denotes concentration in excess of MTCA Method Cleanup Level for groundwater.
MTCA Method A Cleanup Levels, WAC 173-340-720 through 173-340-760, revised Nov., 2007
< = less than method reporting limit shown
ug/L = micrograms per liter (parts per billion)
PAHs by EPA Method 8270D SIM
TEQ = Toxic Equivalent Concentration per Ecology Focus Sheet. One-half the detection limit used for non-detected concentrations.

Table 5
Vertical Groundwater Gradients
Coleman Oil Site
Wenatchee, Washington

Location	Date	TOC	Total Depth	DTW	GWE	Mid-Point	Mid-Point Elevation	Mid-Point Elevation Difference	GWE Difference	Gradient (ft/ft)
MW-1	8/27/2018	658.01	35	12.17	645.84	23.59	634.43	-6.97	-0.60	0.086
MW-1	8/31/2018	658.01	35	12.20	645.81	23.60	634.41	-6.97	-0.60	0.086
MW-1	11/26/2018	658.01	35	11.36	646.65	23.18	634.83	-6.94	-0.65	0.094
MW-1	11/30/2018	658.01	35	11.38	646.63	23.19	634.82	-6.97	-0.60	0.086
MW-1	3/29/2019	658.01	35	9.68	646.63	22.34	635.67	-6.94	-0.60	0.087
MW01S	8/27/2018	657.54	19.99	12.30	645.24	16.15	641.40			
MW01S	8/31/2018	657.54	19.99	12.33	645.21	16.16	641.38			
MW01S	11/27/2018	657.54	19.99	11.54	646.00	15.77	641.78			
MW01S	11/30/2018	657.54	19.99	11.51	646.03	15.75	641.79			
MW01S	3/29/2019	657.54	19.99	9.88	646.03	14.94	642.61			

Location	Date	TOC	Total Depth	DTW	GWE	Mid-Point	Mid-Point Elevation	Mid-Point Elevation Difference	GWE Difference	Gradient (ft/ft)
MW-3	8/27/2018	658.26	35	7.75	650.51	21.38	636.89	-7.62	-0.38	0.050
MW-3	8/31/2018	658.26	35	7.80	650.46	21.40	636.86	-7.63	-0.34	0.045
MW-3	11/26/2018	658.26	35	7.78	650.48	21.39	636.87	-7.73	-0.15	0.019
MW-3	11/30/2018	658.26	35	7.89	650.37	21.45	636.82	-7.74	-0.13	0.017
MW-3	3/29/2019	658.26	35	6.42	650.37	20.71	637.55	-7.36	-0.13	0.018
MW03S	8/27/2018	658.17	19.3	8.04	650.13	13.67	644.50			
MW03S	8/31/2018	658.17	19.3	8.05	650.12	13.68	644.50			
MW03S	11/26/2018	658.17	19.3	7.84	650.33	13.57	644.60			
MW03S	11/30/2018	658.17	19.3	7.93	650.24	13.62	644.56			
MW03S	3/29/2019	658.17	19.3	7.22	650.24	13.26	644.91			

Notes:
All Units in feet

Table 6
List of Monitoring Wells and Required Laboratory Analysis
Coleman Oil Site
Wenatchee, Washington

Well ID	Location of Well	Total Depth (feet)	Required Laboratory Analyses
MW-1	Coleman Facility - South of USTs used for Cardlock	35.00	Discontinue Sampling per Ecology Approval[1]
MW01S	Coleman Facility - South of USTs used for Cardlock	19.99	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW-2	Coleman Facility - North of USTs used for Cardlock	40.00	Discontinue Sampling per Ecology Approval[1]
MW-3	Coleman Facility - Southwestern corner of Tank Farm A	35.00	Discontinue Sampling per Ecology Approval[1]
MW03S	Coleman Facility - Southwestern corner of Tank Farm A	19.30	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW-4	Coleman Facility ~ 30' North of MW-2	37.00	Discontinue Sampling per Ecology Approval[1]
MW-5	East of Worthen Street ~ 45' South and ~80' east of R99 release point	45.00	Discontinue Sampling per Ecology Approval[1]
MW-6	Coleman Facility ~ 20' North of R99 realese point	18.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW-7	Coleman Facility ~ 13' North of former dry well	20.00	Discontinue Sampling per Ecology Approval[1]
MW-8	Coleman Facility - Northeast corner of former Storage Building	25.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW09R	Chehalis Street ~ 15' east of railroad	32.60	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW10R	East of Worthen Street ~ 410' north of R99 release point	33.59	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW-11	Coleman Facility - North Central area	22.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW12	Coleman Facility - Southwestern corner of Site	19.52	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW13	Coleman Facility - in Footprint of Tank Farm B	19.80	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW14	Coleman Facility ~ 80' north of former Tank Farm B	20.02	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW15	East of Worthen Street ~ 20' north and 80' east of R99 release point	35.10	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW16	Chehalis Street ~ 18' east of railroad	29.15	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW17	Chehalis Street ~ 80' East of MW16	29.41	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW18	East of Worthen Street ~ 120' north North & ~ 80' east of R99 release p	34.65	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW19	In Worthen Street - ~40' North of Chehalis Street intersection	31.48	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW20	In Worthen Street - ~75' North of MW19 & ~ 30' west of RW-1	29.50	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW21	East of Worthen Street ~ 470' north of R99 release point	32.10	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW22	East of Worthen Street ~ 560' north of R99 release point	39.10	Discontinue Sampling per Ecology Approval[1]
MW23	Former Dry Well Location	22.04	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW24	East of Worthen Street ~ 435' north of R99 release point	34.25	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW25	East of Worthen Street ~ 390' north of R99 release point	32.96	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW26	East of Worthen Street ~ 360' north of R99 release point	32.52	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW27	East of Worthen Street ~ 330' north of R99 release point	38.74	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW28	East of Worthen Street ~ 300' north of R99 release point	38.74	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW29	East of Worthen Street ~ 255' north of R99 release point	39.11	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW30	East of Worthen Street ~ 235' north of R99 release point	39.79	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW31	East of Worthen Street ~ 195' north of R99 release point	39.28	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
MW32	Chehalis Street ~ 40' East of MW16	34.02	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
BH01R	East of Worthen Street ~ 280' north of R99 release point	40.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
BH-2	East of Worthen Street ~ 240' north of R99 release point	35.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
BH-3	East of Worthen Street ~ 340' north of R99 release point	30.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)
RW-1	East of Worthen Street ~ 315' north of R99 release point	30.00	NWTPH-Gx, NWTPH-Dx, 8260C (BTEX)

Notes:
[1]Washington State Department of Ecology. *Ecology Comments on Supplemental Remedial Investigation Report* . August 16, 2018.

APPENDIX A

GROUNDWATER SAMPLE COLLECTION FORMS

GROUNDWATER PURGE AND SAMPLE COLLECTION

Hydro Con

Well I.D. Number: MW-1

Project Name (Number): Coleman O.L
Hydrocon Project Number: 2017-074
Date: 3-25-19

Sample I.D.: MW-1-W Time: 1050
Field Duplicate I.D.: — Time: —
Personnel: RAH

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☒ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 35.00 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 20-35
Depth to product: — ft
Depth to water: 9.51 ft Intake Depth (BTOC): 16 Begin Purging Well: 1010
Casing volume: 25.49 ft (H_2O) X 0.16 gal/ft = 4.08 gal. X 3 = 12.23 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☒ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (+3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (+0.1)	ORP (mV)	Turbidity (NTU) (+ 10% or <10)
1013	09.54	0.01	13.95	0.594	1.47	6.99	-296	163
1016	09.54	11	13.37	0.593	0.85	6.98	-299	143
1019	0.954	11	13.40	0.595	0.46	6.98	-299	127
1022	09.54	11	13.38	0.593	0.39	6.99	-299	122
1025	09.54	11	13.38	0.593	0.39	6.99	-300	120
1028	09.52	11	13.38	0.593	0.39	6.99	-300	120

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
VOA 40mL	3	HCL	No 0.45 0.10	Cx BTEX 8260 NWTPH-Gx
1L Amber	1	HCL	No 0.45 0.10	Dx NWTPH Dx
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW01S-

Project Name (Number): Colema oil
Hydrocon Project Number: 2017-074
Date: 3-25-19

Sample I.D.: MW01S-W Time: 1100
Field Duplicate I.D.: — Time: —
Personnel: RAM

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☒ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 19.99 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 5-20
Depth to product: — ft
Depth to water: 9.57 ft Intake Depth (BTOC): 15' Begin Purging Well: 1040
Casing volume: 10.42 ft (H_2O) X 0.65 gal/ft = 6.773 gal. X 3 = 20.32 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☒ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (+3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (+0.1)	ORP (mV)	Turbidity (NTU) (+10% or ≤10)
1043	9.57	0.01	12.42	0.685	4.42	7.32	-245	103
1046	9.60	0.01	12.33	0.688	4.56	7.32	-242	99.8
1049	9.60	0.01	12.35	0.687	4.30	7.31	-241	98.1
1052	9.60	0.01	12.35	0.688	3.98	7.31	-240	97.3
1055	9.60	0.01	12.35	0.687	3.95	7.31	-240	96.2
1058	9.60	0.01	12.35	0.688	3.95	7.31	-240	96.0

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	NWTPH-Dx
40 mL VOA	3	HCL	No 0.45 0.10	Gx, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Hydro Con

Well I.D. Number: MW-35

Project Name (Number): Coleman O.L
Hydrocon Project Number: 2017-079
Date: 3-25-19

Sample I.D.: MW-35-W Time: 1155
Field Duplicate I.D.: _____ Time: _____
Personnel: RMH

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair: _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☒ Not measured PID Reading _____ ppm ☐ Odor: _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other: _____
Comments _____

PURGING INFORMATION

Total well depth: 19.30 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 5-20
Depth to product: - ft
Depth to water: 7.12 ft Intake Depth (BTOC): 15' Begin Purging Well: 1112
Casing volume: 12.18 ft (H_2O) X 0.65 gal/ft = 7.92 gal. X 3 = 23.75 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (+3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (+0.1)	ORP (mV)	Turbidity (NTU) (+10% or <10)
1115	7.12	0.01	11.50	0.350	3.10	7.62	-238	154
1118	7.14	0.01	11.47	0.349	0.88	7.54	-243	137
1121	7.14	0.01	11.45	0.345	0.62	7.50	-245	129
1124	7.14	0.01	11.46	0.344	0.60	7.50	-246	121
1127	7.14	0.01	11.42	0.344	0.68	7.50	-245	113
1130	7.14	0.01	11.42	0.345	0.65	7.50	-245	113

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1L Amber	1	HCL	No 0.45 0.10	DX
40mL VOA	3	HCL	No 0.45 0.10	GX, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW-6

Project Name (Number): Colmatic
Hydrocon Project Number: 2017-074
Date: 3-25-19
Sample I.D.: MW-6-W Time: 1330
Field Duplicate I.D.: MW100-W Time: 1330
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading _____ ppm ☐ Odor: _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other: _____
Comments _____

PURGING INFORMATION

Total well depth: 18.00 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 8-18
Depth to product: — ft
Depth to water: 9.23 ft Intake Depth (BTOC): 14 Begin Purging Well: 1305
Casing volume: 8.77 ft (H_2O) X 0.65 gal/ft = 5.70 gal. X 3 = 17.10 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or <10)
1308	9.23	0.01	11.90	0.287	1.10	6.98	-207	177
1311	9.25	0.01	11.95	0.289	0.98	6.89	-207	172
1314	9.26	0.01	11.97	0.289	1.10	6.89	-208	165
1317	9.26	0.01	11.97	0.290	0.97	6.89	-208	158
1320	9.26	0.01	11.97	0.290	0.98	6.89	-208	152
1323	9.26	0.01	11.96	0.290	0.00	6.89	-208	149

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 Liter	2	HCL	No 0.45 0.10	DX
40mL VOA	6	HCL	No 0.45 0.10	GX, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER PURGE AND SAMPLE COLLECTION

Hydro Con

Well I.D. Number: MW-8

Project Name (Number): Clemco 01
Hydrocon Project Number: 2017-074
Date: 3-26-19

Sample I.D.: MW-8-W Time: 0830
Field Duplicate I.D.: — Time: —
Personnel: RAM

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☐ Good ☐ Replaced ☑ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 25.00 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 15-25
Depth to product: — ft
Depth to water: 13.36 ft Intake Depth (BTOC): 21 Begin Purging Well: 0817
Casing volume: 11.64 ft (H_2O) X 0.65 gal/ft = 7.56 gal. X 3 = 22.69 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0820	13.36	0.01	11.18	0.692	1.71	7.05	-141	54.7
0823	13.37	"	11.15	0.691	1.21	7.02	-144	55.7
0826	13.38	"	11.12	0.692	1.13	7.00	-145	53.0
0829	13.38	"	11.20	0.691	1.26	7.00	-145	52.6
0832	13.38	"	11.19	0.691	1.17	7.00	-145	52.4
0835	13.39	"	11.18	0.691	1.19	7.00	-145	51.9

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	Dx
40 mL VOA	3	HCL	No 0.45 0.10	Gx, BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW09R

Project Name (Number): Coleman O.L
Hydrocon Project Number: 2019-076
Date: 3-26-19
Sample I.D.: MW09R-W Time: 1305
Field Duplicate I.D.: — Time: —
Personnel: RAL

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☐ Not measured PID Reading _____ ppm ☐ Odor: _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other: _____
Comments _____

PURGING INFORMATION

Total well depth: 32.60 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 8-33
Depth to product: — ft
Depth to water: 15.42 ft Intake Depth (BTOC): _____ Begin Purging Well: 1245
Casing volume: 17.18 ft (H_2O) X 0.65 gal/ft = 11.16 gal. X 3 = 33.50 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: Slight sheen bubbles

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1248	15.42	0.01	15.19	0.761	2.69	7.16	-101	140
1251	15.93	11	14.91	0.763	0.51	7.07	-101	141
1254	15.94	11	15.09	0.755	0.34	7.07	-101	146
1257	15.95	11	14.95	0.755	0.27	7.07	-101	137
1300	15.95	11	14.95	0.755	0.24	7.07	-101	136
1303	15.95	11	14.95	0.755	0.24	7.07	-101	136

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	1,4-D
40 mL VOA	3	HCL	No 0.45 0.10	BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER PURGE AND SAMPLE COLLECTION

Hydro Con

Well I.D. Number: MW-10R

Project Name (Number): Column 0.1
Hydrocon Project Number: 2017-074
Date: 3-28-19

Sample I.D.: MW10R-W Time: 0935
Field Duplicate I.D.: — Time: —
Personnel: RALL

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 33.59 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 13-33
Depth to product: — ft
Depth to water: 19.94 ft Intake Depth (BTOC): 28 Begin Purging Well: 0913
Casing volume: 13.65 ft (H_2O) X 0.65 gal/ft = 8.87 gal. X 3 = 26.61 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0915	19.62	0.01	13.05	0.786	2.55	7.96	-93	96.3
0918		11	13.26	0.785	2.13	7.33	-94	88.4
0921	19.62	11	13.34	0.785	2.09	7.30	-95	84.8
0924		11	13.58	0.783	2.03	7.30	-97	80.1
0927	19.62	11	13.58	0.783	2.11	7.30	-97	77.0
0930	11	11	13.62	0.783	2.10	7.30	-97	75.6

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amb ✓	1	HCl	No 0.45 0.10	DX
40 mL VOA	3	HCl	No 0.45 0.10	CX BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW-11

Project Name (Number): Coleman oil
Hydrocon Project Number: 2017-074
Date: 3-26-19
Sample I.D.: MW-11-W Time: 0805
Field Duplicate I.D.: — Time: —
Personnel: LAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading _____ ppm ☐ Odor: _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other: _____
Comments _____

PURGING INFORMATION

Total well depth: 27.00 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 7-22
Depth to product: — ft
Depth to water: 13.29 ft Intake Depth (BTOC): 19 Begin Purging Well: 0742
Casing volume: 8.71 ft (H_2O) X 0.65 gal/ft = 5.66 gal. X 3 = 16.9 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0745	13.29	0.01	10.90	0.657	1.22	7.08	-145	59.1
0748	13.29	11	11.64	0.651	0.77	7.02	-148	57.9
0751	13.30	11	11.04	0.652	0.80	7.02	-149	57.3
0754	13.30	11	11.05	0.651	0.76	7.02	-149	56.4
0757	13.30	11	11.05	0.651	0.77	7.02	-149	56.8
0800	13.30	11	11.05	0.651	0.78	7.02	-149	55.2

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	Dx
40 mL VOA	3	HCL	No 0.45 0.10	6x – BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW12

Project Name (Number): Coleman O.L
Hydrocon Project Number: 2017-074
Date: 3-25-19

Sample I.D.: MW12-W Time: 1205
Field Duplicate I.D.: — Time: —
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading _____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 19.52 ft Bottom: ☐ Hard ☐ Soft ☐ Not measured Screen Interval(s): 5-20
Depth to product: — ft
Depth to water: 7.03 ft Intake Depth (BTOC): Begin Purging Well: 1142
Casing volume: 12.49 ft (H_2O) X 0.65 gal/ft = 8.11 gal. X 3 = 24.35 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☑ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or <10)
1145	7.03	0.01	11.59	0.292	4.21	7.60	-215	140
1148	7.04	"	11.48	0.292	3.43	7.46	-215	123
1151	7.04	"	11.45	0.292	3.54	7.40	-214	117
1154	7.04	"	11.45	0.291	3.56	7.40	-214	113
1157	7.04	"	11.46	0.291	3.64	7.40	-214	110
1200	7.04	"	11.46	0.291	3.58	7.40	-214	110

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber			No 0.45 0.10	
40 mL VOA			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW13

Project Name (Number): Coleman oil
Hydrocon Project Number: 2017-074
Date: 3-25-19

Sample I.D.: MW13-W Time: 1410
Field Duplicate I.D.: Time:
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 19.80 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 5-20'
Depth to product: — ft
Depth to water: 7.02 ft Intake Depth (BTOC): 14 Begin Purging Well: 1347
Casing volume: 12.78 ft (H_2O) X 0.65 gal/ft = 8.30 gal. X 3 = 24.92 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (±10% or <10)
1350	7.02	0.01	11.08	0.541	1.69	6.93	-196	135
1353	7.03	"	10.96	0.528	1.52	6.92	-204	132
1356	7.03	"	10.88	0.525	1.07	6.92	-207	129
1359	7.03	"	10.85	0.525	1.11	6.92	-207	125
1401	7.03	"	10.87	0.525	1.03	6.92	-207	124
1404	7.03	"	10.82	0.525	1.02	6.92	-207	124

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	DX
40 mL VOA	3	HCL	No 0.45 0.10	6X – BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW14

Project Name (Number): Valero OIL
Hydrocon Project Number: 2017-079
Date: 3-25-19

Sample I.D.: MW14-W Time: 1445
Field Duplicate I.D.: — Time: —
Personnel: RAH

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair: _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☒ Not measured PID Reading _____ ppm ☐ Odor: _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other: _____
Comments _____

PURGING INFORMATION

Total well depth: 20.02 ft Bottom: ☐ Hard ☐ Soft ☐ Not measured Screen Interval(s): 5-20
Depth to product: — ft
Depth to water: 7.57 ft Intake Depth (BTOC): 13' Begin Purging Well: 1420
Casing volume: 12.45 ft (H_2O) X 0.65 gal/ft = 8.09 gal. X 3 = 24.27 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1423	7.57	0.01	11.57	0.686	1.04	7.21	-171	118
1426	7.58	0.01	11.54	0.685	1.89	7.20	-174	128
1429	7.58	0.01	11.57	0.685	1.07	7.20	-176	124
1432	7.59	0.01	11.54	0.685	0.98	7.20	-177	115
1435	7.59	0.01	11.54	0.685	0.95	7.20	-176	115
1438	7.59	0.01	11.54	0.685	0.00	7.20	-176	110

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1L Amber	1	HCL	No 0.45 0.10	Dx
3mL VOA	3	HCL	No 0.45 0.10	Gx - BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW16

Project Name (Number): Coleman oil
Hydrocon Project Number: 2016-074
Date: 3-26-19

Sample I.D.: MW16-W Time: 0920
Field Duplicate I.D.: — Time: —
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☑ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor: ____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other: ____
Comments ____

PURGING INFORMATION

Total well depth: 29.15 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 9-29
Depth to product: — ft
Depth to water: 9.29 ft Intake Depth (BTOC): 15 Begin Purging Well: 0902
Casing volume: 19.91 ft (H_2O) X 0.05 gal/ft = 12.94 gal. X 3 = 38.82 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other ____
Bailer type: ____ Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other ____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0905	~~9.24~~	0.01	11.98	0.753	2.10	7.65	-125	129
0908	9.24	"	12.01	0.753	2.18	7.67	-123	125
0911	9.25	"	12.03	0.754	2.07	7.67	-123	123
0914	9.25	"	12.03	0.754	1.94	7.67	-123	123
0917	9.25	"	12.05	0.754	1.96	7.67	-123	121
0920	9.25	"	12.05	0.754	1.87	7.67	-123	121

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: ____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1L Amber	1	HCL	No 0.45 0.10	Dx
40 mL VOA	3	HCL	No 0.45 0.10	Gx-BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: ____

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW17

Project Name (Number): Coleman Oil
Hydrocon Project Number: 2017-104
Date: 3-26-19

Sample I.D.: MW17-W Time: 1055
Field Duplicate I.D.: MW401-W Time: 1051
Personnel: RLH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 29.41 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 9-29
Depth to product: ~~13~~ ft
Depth to water: 13.66 ft Intake Depth (BTOC): 19 Begin Purging Well: 1032
Casing volume: 15.75 ft (H_2O) X 0.65 gal/ft = 10.23 gal. X 3 = 30.71 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1035	13.66	0.01	15.34	0.721	1.12	7.26	-128	253
1038	13.66	"	15.30	0.721	0.79	7.02	-127	220
1041	13.66	"	15.35	0.720	0.54	7.00	-128	210
1044	13.66	"	15.48	0.720	0.61	7.01	-129	202
1047	13.66	"	15.47	0.720	0.52	7.01	-129	202
1050	13.66	"	15.50	0.720	0.52	7.00	-129	204

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	6x DX
3 40 ML VOA	3	HCL	No 0.45 0.10	6x - BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: MW19

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date: 3/28/17

Sample I.D. MW19-W Time: 1130
Field Duplicate I.D. - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☒ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 31.48 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 11-31'
Depth to product - ft
Depth to water 21.30 ft Intake Depth (BTOC) 27' Begin Purging Well: 1107
Casing volume 10.18 ft (H_2O) X 0.65 gal/ft = 6.62 gal. X 3 = 19.86 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: V faint petro odor

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1109	21.42		14.7	.964	1.01	6.94	55.3	33.2
1112	21.48		15.2	.974	0.50	6.99	52.4	7.86
1115	21.54	0.125	15.3	.979	0.37	7.01	50.8	5.78
1118	21.61		15.2	.978	0.28	7.02	53.0	9.63
1121	21.66		15.3	.978	0.23	7.02	55.4	5.40
1124	21.72		15.3	.978	0.22	7.02	58.0	8.31
			Sample @			1130		

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	3	HCl	(No) 0.45 0.10	Gx, BTEX
1 Liter Amber	1	HCl	(No) 0.45 0.10	Dx
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW20

Project Name:. Coleman Oil Westchester
Hydrocon Project #: 2017-074
Date 3/28/19

Sample I.D. MW20-W Time: 1045
Field Duplicate I.D. - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair ☒ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured ____ ppm ☐ Odor
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other
Comments

PURGING INFORMATION

Total well depth 29.50 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 9 - 29'
Depth to product - ft
Depth to water 13.32 ft Intake Depth (BTOC) 20' Begin Purging Well: 1021
Casing volume 16.18 ft (H_2O) X 0.65 gal/ft = 10.52 gal. X 3 = 31.56 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: v faint petro odor

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1023	13.40		12.0	.909	1.25	7.27	-22.6	OR (overrange)
1026	13.47		12.1	.883	0.34	7.33	-35.5	OR
1029	13.51	0.155	12.1	.884	0.35	7.36	-40.7	158
1032	13.55		12.1	.889	0.53	7.37	-43.0	67.8
1035	13.58		12.2	.889	0.68	7.35	-45.3	43.6
1038	13.60		12.1	.890	0.74	7.34	-46.0	26.0
1041	13.62		12.2	.891	0.80	7.33	-46.0	12.1
		Sample @				1045		

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: orange algae in purge H_2O

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 ml VOA	3	HCl	(No) 0.45 0.10	6x, BTEX
1 L amber	1	HCl	(No) 0.45 0.10	DX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW21

Project Name (Number): Coleman 0.2
Hydrocon Project Number: 2017-074
Date: 3-28-19

Sample I.D.: MW21-U Time: 0815
Field Duplicate I.D.: — Time:
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 32.10 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 12-32
Depth to product: — ft
Depth to water: 19.68 ft Intake Depth (BTOC): 25 Begin Purging Well: 0754
Casing volume: 12.42 ft (H_2O) X 0.65 gal/ft = 8.07 gal. X 3 = 24.21 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0757	19.68	0.21	11.56	0.766	1.82	7.32	-96	81.3
0800		11	12.18	0.766	1.58	7.09	-98	78.5
0803	19.69	11	11.78	0.766	0.91	7.05	-99	75.5
0806		11	11.95	0.766	0.99	7.05	-99	73.3
0809	19.69	11	11.95	0.766	0.92	7.05	-99	72.3
0812		11	11.95	0.766	0.92	7.05	-99	71.1

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	1x
40 mL VOA	3	HCL	No 0.45 0.10	6x - BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Hydro Con

Well I.D. Number: MW23

Project Name (Number): Coleman O&L
Hydrocon Project Number: 2017-074
Date: 3-25-19

Sample I.D.: MW23-W Time: 1255
Field Duplicate I.D.: — Time: —
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 22.04 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 7-22
Depth to product: — ft
Depth to water: 9.02 ft Intake Depth (BTOC): 14' Begin Purging Well: 1230
Casing volume: 13.02 ft (H_2O) X 0.65 gal/ft = 8.46 gal. X 3 = 25.38 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen:

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (+3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (+0.1)	ORP (mV)	Turbidity (NTU) (+10% or <10)
1233	9.02	0.01	12.00	0.631	2.72	7.29	-195	147
1236	9.03	"	11.91	0.632	2.15	7.18	-197	138
1240	9.03	"	11.91	0.631	2.04	7.15	-196	127
1243	9.03	"	11.94	0.632	1.90	7.13	-195	121
1246	9.03	"	11.94	0.632	2.07	7.13	-195	117
1249	9.03	"	11.94	0.632	2.05	7.13	-195	121

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	
40mL VOA	3	HCL	No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Hydro Con

Well I.D. Number: MW24

Project Name (Number): Coleman oil
Hydrocon Project Number: 2017-074
Date: 3-28-19

Sample I.D.: MW24-W Time: 0855
Field Duplicate I.D.: — Time: —
Personnel: RMM

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 34.25 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 14-34
Depth to product: — ft
Depth to water: 24.38 ft Intake Depth (BTOC): 28.5' Begin Purging Well: 0832
Casing volume: 9.87 ft (H_2O) X 0.65 gal/ft = 6.41 gal. X 3 = 19.24 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0835	24.38	0.01	12.93	0.829	2.57	7.22	-92	128
0838	24.38	"	12.90	0.817	2.45	7.20	-93	124
0841	"	"	13.08	0.843	2.58	7.14	-93	122
0844	"	"	13.18	0.798	2.57	7.11	-92	117
0847	"	"	13.20	0.795	2.58	7.11	-92	112
0850	"	"	13.20	0.795	2.52	7.11	-92	110
0853	"	"	13.22	0.795	2.56	7.11	-91	108

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	Dx
40 mL VOA	3	HCL	No 0.45 0.10	Gx – BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Hydro Con

Well I.D. Number: MW25

Project Name (Number): Coleman 02
Hydrocon Project Number: 2017-074
Date: 3-28-19

Sample I.D.: MW25-W Time: 1015
Field Duplicate I.D.: — Time: —
Personnel: RHH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading _____ ppm ☐ Odor: _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other: _____
Comments _____

PURGING INFORMATION

Total well depth: 32.96 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 13-33
Depth to product: — ft
Depth to water: 13.52 ft Intake Depth (BTOC): 27 Begin Purging Well: 0952
Casing volume: 19.44 ft (H_2O) X 0.65 gal/ft = 12.63 gal. X 3 = 37.90 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0955	13.52	0.01	13.48	0.806	2.97	7.53	-89	654
0958	"	0.01	13.85	0.755	3.56	7.53	-88	640
1001	"	"	13.64	0.752	3.56	7.53	-88	389
1004	"	"	13.72	0.754	3.59	7.54	-87	214
1007	"	"	13.70	0.754	3.51	7.54	-86	194
1010	"	"	13.70	0.754	3.60	7.54	-86	154

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1L Amber	1	HCl	No 0.45 0.10	DX
40mL VOA	3	HCl	No 0.45 0.10	GX – BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER PURGE AND SAMPLE COLLECTION

Hydro Con

Well I.D. Number: MW26

Project Name (Number): Coleman 01
Hydrocon Project Number: 2017-074
Date: 3-28-19

Sample I.D.: MW26-W Time: 1045
Field Duplicate I.D.: — Time: —
Personnel: RLH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading _____ ppm ☐ Odor: _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other: _____
Comments _____

PURGING INFORMATION

Total well depth: 32.52 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 12-32
Depth to product: — ft
Depth to water: 15.30 ft Intake Depth (BTOC): 27.5 Begin Purging Well: 1024
Casing volume: 17.22 ft (H_2O) X 0.65 gal/ft = 11.19 gal. X 3 = 33.57 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
~~13.~~1027	15.30	0.01	14.26	0.802	3.56	7.42	-85	139
1030	"	0.01	14.26	0.802	3.56	7.42	-83	127
1033	"	0.01	14.30	0.803	3.49	7.42	-82	135
1036	15.32	0.01	14.36	0.803	3.52	7.41	-81	132
1039	"	0.01	14.36	0.803	3.55	7.41	-81	130
1042	"	0.01	14.37	0.803	3.55	7.41	-81	129

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	Dx
40mL Vial	3	HCL	No 0.45 0.10	6x- BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: MW27

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date: 3/28/19

Sample I.D.: MW27-W Time: 0920
Field Duplicate I.D.: - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 38.74 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 14-39'
Depth to product - ft
Depth to water 19.95 ft Intake Depth (BTOC) 26' Begin Purging Well: 0856
Casing volume 18.79 ft (H_2O) X 0.65 gal/ft = 12.21 gal. X 3 = 36.63 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: V faint petro odor

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0858	20.06		12.1	1.008	1.03	7.01	82.2	14.4
0901	20.13		13.2	1.020	0.45	7.16	65.6	15.2
0904	20.21		13.5	1.038	0.30	7.17	59.5	12.4
0907	20.27	0.130	13.6	1.040	0.24	7.18	56.3	12.8
0910	20.33		13.6	1.040	0.22	7.19	53.7	12.0
0913	20.39		13.8	1.040	0.19	7.18	51.3	15.1
		Sample @ 0920						

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	3	HCl	(No) 0.45 0.10	Gx, BTEX
1-L amber	1	HCl	(No) 0.45 0.10	DX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER PURGE AND SAMPLE COLLECTION

Hydro Con

Well I.D. Number: MW28

Project Name (Number): Coleman oil
Hydrocon Project Number: 2017-074
Date: 3-27-19

Sample I.D.: MW28-W Time: 1255
Field Duplicate I.D.: — Time: —
Personnel: RH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☐ Good ☑ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 38.74 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 13-38
Depth to product: — ft
Depth to water: 23.88 ft Intake Depth (BTOC): Begin Purging Well: 1234
Casing volume: 14.86 ft (H_2O) X 0.65 gal/ft = 9.65 gal. X 3 = 28.77 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: MNC

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1237	~~dry~~	0.01	14.25	0.850	1.88	7.40	-111	530
1240	23.88	0.01	14.50	0.853	1.90	7.39	-113	394
1243	23.90	0.01	14.52	0.852	0.52	7.40	-115	292
1246	23.90	0.01	14.52	0.853	0.60	7.41	-115	223
1249	23.91	0.01	14.52	0.853	0.52	7.41	-116	219
1251	23.91	0.01	14.52	0.853	0.50	7.41	-115	211

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCl	No 0.45 0.10	DRO
40mL VOA	3	HCl	No 0.45 0.10	6200 - BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW29

Project Name (Number): Coleman oil
Hydrocon Project Number: 2017-074
Date: 3-27-19

Sample I.D.: MW29-W Time: 1030
Field Duplicate I.D.: — Time: —
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 39.11 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 14-39
Depth to product: — ft
Depth to water: 21.28 ft Intake Depth (BTOC): 36 Begin Purging Well: 1007
Casing volume: 17.83 ft (H_2O) X 0.65 gal/ft = 11.58 gal. X 3 = 34.76 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1010	~~39.11~~	0.01	14.09	0.883	2.49	7.46	-158	118
1013	21.28	0.01	14.38	0.900	1.30	7.31	-164	47.8
1016	21.30	0.01	14.55	0.890	1.38	7.28	-168	87.4
1019	21.30	0.01	14.69	0.861	1.08	7.26	-167	85.8
1022	21.31	0.01	14.81	0.861	1.02	7.25	-166	85.0
1025	21.31	0.01	14.83	0.861	0.97	7.25	-164	83.6

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1L Amber	1	HCl	No 0.45 0.10	Dx
40 mL VOA	3	HCl	No 0.45 0.10	Gx - BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Hydro Con

Well I.D. Number: MW30

Project Name (Number): Coleman oil
Hydrocon Project Number: 2017-074
Date: 3-27-19

Sample I.D.: MW30-W Time: 0940
Field Duplicate I.D.: — Time: —
Personnel: RLH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading _____ ppm ☐ Odor: _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other: _____
Comments _____

PURGING INFORMATION

Total well depth: 39.79 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 14-39
Depth to product: — ft
Depth to water: 39.71 ft Intake Depth (BTOC): 37 Begin Purging Well: 0917
Casing volume: 5.08 ft (H_2O) X 0.65 gal/ft = 3.30 gal. X 3 = 9.90 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☐ Peristaltic ☑ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0920	39.71	0.01	14.20	0.964	2.17	7.16	-177	84.3
0923	39.73	0.01	14.70	0.972	1.03	7.14	-183	84.4
0926	39.73	0.01	14.72	0.976	1.36	7.15	-185	83.4
0929	39.74	0.01	14.37	0.976	1.47	7.15	-185	84.2
0932	39.74	0.01	14.37	0.976	1.26	7.15	-184	84.2
0935	39.74	0.01	14.35	0.976	1.22	7.15	-184	80.2

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	DX
40 mL VOA	3	HCL	No 0.45 0.10	6x- BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW31

Project Name (Number): Coloma O.L
Hydrocon Project Number: 2017-079
Date: 3-27-19
Sample I.D.: MW31-W Time: 0825
Field Duplicate I.D.: — Time: —
Personnel: NAL

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 39.28 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 19-39
Depth to product: — ft
Depth to water: 33.50 ft Intake Depth (BTOC): 37 Begin Purging Well: 0802
Casing volume: 5.78 ft (H_2O) X 0.65 gal/ft = 3.75 gal. X 3 = 11.27 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☐ Peristaltic ☑ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0805	33.50	0.01	12.19	1.011	3.17	7.46	-207	134
0808	33.52	11	13.03	0.995	2.16	7.42	-213	122
0811	33.53	11	13.30	0.993	1.95	7.41	-217	110
0814	33.54	11	13.35	0.995	1.58	7.41	-217	103
0817	33.54	11	13.35	0.996	1.51	7.41	-219	101
0820	33.54	11	13.35	0.995	1.49	7.41	-217	100
0								

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments:

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amb	~~1~~	1 HCL	No 0.45 0.10	Dx
40 mL VOA	~~3~~	3 HCL	No 0.45 0.10	Gx – BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: MW32

Project Name (Number): _____ Sample I.D.: MW32-W Time: 1015
Hydrocon Project Number: 2017-074 Field Duplicate I.D.: _____ Time: _____
Date: 3.26.19 Personnel: _____

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: _____ ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading _____ ppm ☐ Odor: _____
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other: _____
Comments _____

PURGING INFORMATION

Total well depth: 34.02 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 9-34
Depth to product: — ft
Depth to water: 17.27 ft Intake Depth (BTOC): 30 Begin Purging Well: 0952
Casing volume: 16.75 ft (H_2O) X 0.62 gal/ft = 10.38 gal. X 3 = 32.66 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0955	17.27	0.01	13.66	0.696	2.81	7.56	-116	133
0958	"	0.01	13.71	0.695	2.77	7.27	-115	121
1001	17.27	"	13.78	0.693	2.35	7.17	-115	127
1004	17.27	"	13.81	0.693	2.14	7.17	-115	126
1007	17.27	"	13.88	0.693	2.08	7.17	-115	126
1010	17.27	"	13.89	0.693	2.01	7.17	-114	126

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amb ✓	1	HCL	No 0.45 0.10	Dx
40 mL VOA	3	HCL	No 0.45 0.10	Cx – 1351x
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: BH-12

Project Name (Number): Coleman oil
Hydrocon Project Number: 2016-074
Date: 3-27-19

Sample I.D.: BH-12-W Time: 1110
Field Duplicate I.D.: ~~MW102-W~~ Time: 1110
Personnel: RHH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: ☐ Water in Monument
Well cap condition: ☑ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading ____ ppm ☐ Odor:
Well diameter: ☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other:
Comments

PURGING INFORMATION

Total well depth: 39 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 14-39
Depth to product: — ft
Depth to water: 20.50 ft Intake Depth (BTOC): 36 Begin Purging Well:
Casing volume: 18.5 ft (H_2O) X 0.65 gal/ft = 12.02 gal. X 3 = 36.0 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☑ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other
Bailer type: Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other

FIELD PARAMETERS

Odor and/or Sheen: Slight odor & Sheen

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1048	20.50	0.01	14.90	0.825	1.95	7.20	-144	2000
1051	20.52	"	15.08	0.828	1.61	7.19	-146	2000
1054	20.52	"	15.08	0.824	0.60	7.18	-146	2000
1057	20.52	"	15.04	0.823	0.68	7.18	-147	2000
1100	20.52	"	15.06	0.823	0.64	7.18	-147	2000
1103	20.52	"	15.07	0.823	0.69	7.18	-148	1647

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: Ashing of Iron Bacteria has Fouled The Turb Sensor, water was clear at Time of Sampling

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
~~2~~ 1L Amber	2	HCL	No 0.45 0.10	Dx
40mL VOA	6	HCL	No 0.45 0.10	6x - BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments:

GROUNDWATER PURGE AND SAMPLE COLLECTION

Hydro Con

Well I.D. Number: BH-2

Project Name (Number): Coleman O.L
Hydrocon Project Number: 2017-074
Date: 3-27-19

Sample I.D.: BH-2-W Time: 0900
Field Duplicate I.D.: — Time: —
Personnel: RAH

WELL INFORMATION

Monument condition: ☑ Good ☐ Needs repair: _____ ☐ Water in Monument
Well cap condition: ☐ Good ☑ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☑ Not measured PID Reading _____ ppm ☐ Odor: _____
Well diameter: ☑ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other: _____
Comments _____

PURGING INFORMATION

Total well depth: 35.00 ft Bottom: ☐ Hard ☐ Soft ☑ Not measured Screen Interval(s): 20-35
Depth to product: — ft
Depth to water: 27.26 ft Intake Depth (BTOC): 34 Begin Purging Well: 0837
Casing volume: 7.74 ft (H_2O) X 0.65 gal/ft = 5.03 gal. X 3 = 15.09 gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☐ Peristaltic ☑ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: ☐ Drummed ☑ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (+3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (±10% or <10)
0840	27.26	0.01	13.36	0.704	2.50	6.77	-188	905
0843	27.28	11	13.41	0.697	1.64	6.95	-189	813
0846	27.29	11	13.47	0.667	1.66	6.91	-187	633
0849	27.29	11	13.45	0.667	1.63	6.91	-187	568
0852	27.30	11	13.41	0.667	1.67	6.91	-186	534
0855	27.30	11	13.39	0.666	1.61	6.90	-186	501

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
1 L Amber	1	HCL	No 0.45 0.10	DX
40mL VOA	3	HCL	No 0.45 0.10	DX - BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: Bit03

Project Name: Coleman Oil Wenatchee
Hydrocon Project #: 2017-074
Date: 3/28/19

Sample I.D.: Bit03-W Time: 1000
Field Duplicate I.D.: - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other _____
Comments _____

PURGING INFORMATION

Total well depth 30.00 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 15-30'
Depth to product - ft
Depth to water 18.01 ft Intake Depth (BTOC) 25' Begin Purging Well: 0934
Casing volume 11.99 ft (H_2O) X 0.16 gal/ft = 1.92 gal. X 3 = 5.76 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: faint organic odor

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0936	18.04		12.7	1.204	0.92	7.22	-16.2	10.0
0939	18.06		13.8	1.221	0.27	7.31	-67.5	9.02
0942	18.07		13.9	1.223	0.28	7.27	-89.7	9.53
0945	18.09	0.135	14.0	1.223	0.20	7.38	-105.3	9.26
0948	18.10		13.9	1.222	0.18	7.44	-118.6	8.65
0951	18.11		14.0	1.222	0.17	7.50	-129.4	8.36
0954	18.12		14.1	1.222	0.17	7.53	-138.0	8.57

Sample @ 1000

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 ml VOA	3	HCl	(No) 0.45 0.10	6x, BTEX
1 L amber	1	HCl	(No) 0.45 0.10	Dx
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER SAMPLE COLLECTION FORM

Hydro Con

Well I.D. Number: RW01

Project Name: Colemans Oil Wenatchee
Hydrocon Project #: 2017-074
Date: 3/28/19

Sample I.D. RW01-W Time: 0835
Field Duplicate I.D. - Time: -
Personnel: CD

WELL INFORMATION

Monument condition: ☒ Good ☐ Needs repair _____ ☐ Water in Monument
Well cap condition: ☒ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well
Headspace reading: ☒ Not measured _____ ppm ☐ Odor _____
Well diameter: ☐ 2-inch ☐ 4-inch ☐ 6-inch ☒ Other 3"
Comments _____

PURGING INFORMATION

Total well depth 30.00 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s): 15 - 30'
Depth to product - ft
Depth to water 20.96 ft Intake Depth (BTOC) 26' Begin Purging Well: 0812
Casing volume 9.04 ft (H_2O) X 0.33 gal/ft = 2.98 gal. X 3 = 8.94 gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☒ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal:: ☐ Drummed ☒ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0815	21.11		11.3	0.990	2.30	6.99	58.9	36.7
0818	21.25		13.0	.981	1.58	7.33	47.9	4.78
0821	21.35	0.120	13.3	.984	0.68	7.37	43.0	2.36
0824	21.45		13.4	.977	0.38	7.38	39.6	2.60
0827	21.58		13.4	.975	0.31	7.36	37.2	2.01
0830	21.68		13.5	.973	0.27	7.32	35.3	2.18
		Sample @ 0835						

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40ml VOA	3	HCl	(No) 0.45 0.10	Gx, BTEX
1L amber	1	HCl	(No) 0.45 0.10	DX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

GROUNDWATER PURGE AND SAMPLE COLLECTION

Well I.D. Number: Blank

Project Name (Number): Coleman oil
Hydrocon Project Number: 2017-074
Date: 3-28-19
Sample I.D.: Blank-20190328 Time: 1110
Field Duplicate I.D.: — Time: —
Personnel: RJH

WELL INFORMATION

Monument condition: ☐ Good ☐ Needs repair: _____ ☐ Water in Monument
Well cap condition: ☐ Good ☐ Replaced ☐ Needs Replacement ☐ Surface Water Well Infiltration
Headspace reading: ☐ Not measured PID Reading _____ ppm ☐ Odor: _____
Well diameter: ☐ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other: _____
Comments _____

PURGING INFORMATION

Total well depth: _____ ft Bottom: ☐ Hard ☐ Soft ☐ Not measured Screen Interval(s): _____
Depth to product: _____ ft
Depth to water: _____ ft Intake Depth (BTOC): _____ Begin Purging Well: _____
Casing volume: _____ ft (H_2O) X _____ gal/ft = _____ gal. X 3 = _____ gal.
Volume Conversion Factors: 3/4"–0.02 gal/ft 1"–0.04 gal/ft 2"–0.16 gal/ft 4"–0.65 gal/ft 6"– 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type ☐ Peristaltic ☐ Centrifugal ☐ Dedicated Bladder ☐ Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: ☐ Drummed ☐ Remediation System ☐ Other _____

FIELD PARAMETERS

Odor and/or Sheen: _____

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity and/or Dissolved Oxygen are recorded within their respective stabilization criteria. A minimum of six measurements should be recorded.
Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40mL VOA.	3	HCL	No 0.45 0.10	BTEX 8260
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____
Eggplant Rinsate Blank.

APPENDIX B

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

Thursday, April 4, 2019

Craig Hultgren
HydroCon LLC
314 W 15th Street Suite 300
Vancouver, WA 98660

RE: A9C1035 - Coleman Wenatchee - 2017-074

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A9C1035, which was received by the laboratory on 3/29/2019 at 2:22:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: ldomenighini@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of final reporting, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	4.9 degC	Cooler #2	1.3 degC
Cooler #3	2.6 degC	Cooler #4	2.3 degC
Cooler #5	1.8 degC		

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-W	A9C1035-01	Water	03/25/19 10:30	03/29/19 14:22
MW01S-W	A9C1035-02	Water	03/25/19 11:00	03/29/19 14:22
MW03S-W	A9C1035-03	Water	03/25/19 11:35	03/29/19 14:22
MW12-W	A9C1035-04	Water	03/25/19 12:05	03/29/19 14:22
MW23-W	A9C1035-05	Water	03/25/19 12:55	03/29/19 14:22
MW-6-W	A9C1035-06	Water	03/25/19 13:30	03/29/19 14:22
MW100-W	A9C1035-07	Water	03/25/19 13:30	03/29/19 14:22
MW13-W	A9C1035-08	Water	03/25/19 14:10	03/29/19 14:22
MW14-W	A9C1035-09	Water	03/25/19 14:45	03/29/19 14:22
MW-11-W	A9C1035-10	Water	03/26/19 08:05	03/29/19 14:22
MW16-W	A9C1035-11	Water	03/26/19 09:20	03/29/19 14:22
MW32-W	A9C1035-12	Water	03/26/19 10:15	03/29/19 14:22
MW17-W	A9C1035-13	Water	03/26/19 10:55	03/29/19 14:22
MW101-W	A9C1035-14	Water	03/26/19 10:55	03/29/19 14:22
MW-8-W	A9C1035-15	Water	03/26/19 08:40	03/29/19 14:22
MW09R-W	A9C1035-16	Water	03/26/19 13:05	03/29/19 14:22
MW31-W	A9C1035-17	Water	03/27/19 08:25	03/29/19 14:22
BH-2-W	A9C1035-18	Water	03/27/19 09:00	03/29/19 14:22
MW30-W	A9C1035-19	Water	03/27/19 09:40	03/29/19 14:22
MW29-W	A9C1035-20	Water	03/27/19 10:30	03/29/19 14:22
BH-1R-W	A9C1035-21	Water	03/27/19 11:10	03/29/19 14:22
MW102-W	A9C1035-22	Water	03/27/19 11:10	03/29/19 14:22
MW28-W	A9C1035-23	Water	03/27/19 12:55	03/29/19 14:22
MW21-W	A9C1035-24	Water	03/28/19 08:15	03/29/19 14:22
MW24-W	A9C1035-25	Water	03/28/19 08:55	03/29/19 14:22
MW10R-W	A9C1035-26	Water	03/28/19 08:35	03/29/19 14:22
MW25-W	A9C1035-27	Water	03/28/19 10:15	03/29/19 14:22
MW26-W	A9C1035-28	Water	03/28/19 10:45	03/29/19 14:22
MW19-W	A9C1035-29	Water	03/28/19 11:30	03/29/19 14:22
MW20-W	A9C1035-30	Water	03/28/19 10:45	03/29/19 14:22
BH03-W	A9C1035-31	Water	03/28/19 10:00	03/29/19 14:22
MW27-W	A9C1035-32	Water	03/28/19 09:20	03/29/19 14:22

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RW01-W	A9C1035-33	Water	03/28/19 08:35	03/29/19 14:22
Blank-20190328	A9C1035-34	Water	03/28/19 11:10	03/29/19 14:22

Apex Laboratories

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1-W (A9C1035-01)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**126**	---	75.5	ug/L	1	04/02/19	NWTPH-Dx	**F-11, F-20**
Oil	ND	---	151	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 91 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
MW01S-W (A9C1035-02)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**116**	---	76.2	ug/L	1	04/02/19	NWTPH-Dx	**F-11, F-20**
Oil	ND	---	152	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 93 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
MW03S-W (A9C1035-03)				**Matrix: Water**		**Batch: 9040389**		
Diesel	ND	---	76.2	ug/L	1	04/02/19	NWTPH-Dx	
Oil	ND	---	152	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 84 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
MW12-W (A9C1035-04)				**Matrix: Water**		**Batch: 9040389**		
Diesel	ND	---	76.2	ug/L	1	04/02/19	NWTPH-Dx	
Oil	ND	---	152	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 92 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
MW23-W (A9C1035-05)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**339**	---	76.2	ug/L	1	04/02/19	NWTPH-Dx	**F-11**
Oil	ND	---	152	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 86 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
MW-6-W (A9C1035-06)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**1010**	---	76.2	ug/L	1	04/02/19	NWTPH-Dx	**F-13, F-20**
Oil	ND	---	152	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 92 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
MW100-W (A9C1035-07)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**1130**	---	76.2	ug/L	1	04/02/19	NWTPH-Dx	**F-13, F-20**
Oil	ND	---	152	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 94 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
MW13-W (A9C1035-08)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**4650**	---	75.5	ug/L	1	04/02/19	NWTPH-Dx	**F-11, F-20**

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Lisa Domenighini, Client Services Manager

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EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW13-W (A9C1035-08)				**Matrix: Water**		**Batch: 9040389**		
Oil	ND	---	151	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 56 %*		*Limits: 50-150 %*	*1*	*04/02/19*	*NWTPH-Dx*	
MW14-W (A9C1035-09)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**1070**	---	75.5	ug/L	1	04/02/19	NWTPH-Dx	**F-11, F-20**
Oil	ND	---	151	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 94 %*		*Limits: 50-150 %*	*1*	*04/02/19*	*NWTPH-Dx*	
MW-11-W (A9C1035-10)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**1230**	---	75.5	ug/L	1	04/01/19	NWTPH-Dx	**F-13, F-20**
Oil	ND	---	151	ug/L	1	04/01/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 55 %*		*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Dx*	
MW16-W (A9C1035-11)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**183**	---	74.8	ug/L	1	04/01/19	NWTPH-Dx	**F-11**
Oil	ND	---	150	ug/L	1	04/01/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 93 %*		*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Dx*	
MW32-W (A9C1035-12)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**296**	---	74.8	ug/L	1	04/01/19	NWTPH-Dx	**F-11**
Oil	ND	---	150	ug/L	1	04/01/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 80 %*		*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Dx*	
MW17-W (A9C1035-13)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**2520**	---	75.5	ug/L	1	04/02/19	NWTPH-Dx	**F-13, F-20**
Oil	ND	---	151	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 65 %*		*Limits: 50-150 %*	*1*	*04/02/19*	*NWTPH-Dx*	
MW101-W (A9C1035-14)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**3220**	---	76.2	ug/L	1	04/02/19	NWTPH-Dx	**F-13, F-20**
Oil	ND	---	152	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 72 %*		*Limits: 50-150 %*	*1*	*04/02/19*	*NWTPH-Dx*	
MW-8-W (A9C1035-15)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**2220**	---	74.8	ug/L	1	04/02/19	NWTPH-Dx	**F-13, F-20**
Oil	ND	---	150	ug/L	1	04/02/19	NWTPH-Dx	

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-8-W (A9C1035-15)				**Matrix: Water**		**Batch: 9040389**		
Surrogate: o-Terphenyl (Surr)		*Recovery: 46 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	*S-06*
MW09R-W (A9C1035-16)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**5690**	---	75.5	ug/L	1	04/02/19	NWTPH-Dx	**F-13, F-20**
Oil	ND	---	151	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 79 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
MW31-W (A9C1035-17)				**Matrix: Water**		**Batch: 9040389**		
Diesel	ND	---	74.8	ug/L	1	04/02/19	NWTPH-Dx	
Oil	ND	---	150	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 93 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
BH-2-W (A9C1035-18)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**5310**	---	74.8	ug/L	1	04/02/19	NWTPH-Dx	**F-13, F-15**
Oil	**475**	---	150	ug/L	1	04/02/19	NWTPH-Dx	**F-03, F-16**
Surrogate: o-Terphenyl (Surr)		*Recovery: 65 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
MW30-W (A9C1035-19)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**612**	---	74.8	ug/L	1	04/02/19	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	04/02/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 82 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
MW29-W (A9C1035-20)				**Matrix: Water**		**Batch: 9040389**		
Diesel	**2930**	---	75.5	ug/L	1	04/02/19	NWTPH-Dx	**F-13, F-15**
Oil	**928**	---	151	ug/L	1	04/02/19	NWTPH-Dx	**F-16**
Surrogate: o-Terphenyl (Surr)		*Recovery: 64 %*	*Limits: 50-150 %*		*1*	*04/02/19*	*NWTPH-Dx*	
BH-1R-W (A9C1035-21RE1)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**13600**	---	755	ug/L	10	04/04/19	NWTPH-Dx	**F-13**
Oil	ND	---	1510	ug/L	10	04/04/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 74 %*	*Limits: 50-150 %*		*10*	*04/04/19*	*NWTPH-Dx*	*S-05*
MW102-W (A9C1035-22RE1)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**15500**	---	748	ug/L	10	04/04/19	NWTPH-Dx	**F-13**
Oil	ND	---	1500	ug/L	10	04/04/19	NWTPH-Dx	

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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW102-W (A9C1035-22RE1)				**Matrix: Water**		**Batch: 9040412**		
Surrogate: o-Terphenyl (Surr)		*Recovery: 73 %*		*Limits: 50-150 %*	*10*	*04/04/19*	*NWTPH-Dx*	*S-05*
MW28-W (A9C1035-23)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**1370**	---	75.5	ug/L	1	04/03/19	NWTPH-Dx	**F-13**
Oil	ND	---	151	ug/L	1	04/03/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 75 %*		*Limits: 50-150 %*	*1*	*04/03/19*	*NWTPH-Dx*	
MW21-W (A9C1035-24)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**1400**	---	75.5	ug/L	1	04/03/19	NWTPH-Dx	**F-13**
Oil	ND	---	151	ug/L	1	04/03/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 74 %*		*Limits: 50-150 %*	*1*	*04/03/19*	*NWTPH-Dx*	
MW24-W (A9C1035-25)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**695**	---	74.8	ug/L	1	04/03/19	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	04/03/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 88 %*		*Limits: 50-150 %*	*1*	*04/03/19*	*NWTPH-Dx*	
MW10R-W (A9C1035-26)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**2960**	---	75.5	ug/L	1	04/03/19	NWTPH-Dx	**F-13**
Oil	ND	---	151	ug/L	1	04/03/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 77 %*		*Limits: 50-150 %*	*1*	*04/03/19*	*NWTPH-Dx*	
MW25-W (A9C1035-27)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**302**	---	74.8	ug/L	1	04/03/19	NWTPH-Dx	**F-11**
Oil	ND	---	150	ug/L	1	04/03/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 93 %*		*Limits: 50-150 %*	*1*	*04/03/19*	*NWTPH-Dx*	
MW26-W (A9C1035-28)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**591**	---	74.8	ug/L	1	04/03/19	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	04/03/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 87 %*		*Limits: 50-150 %*	*1*	*04/03/19*	*NWTPH-Dx*	
MW19-W (A9C1035-29)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**4300**	---	74.8	ug/L	1	04/03/19	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	04/03/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 77 %*		*Limits: 50-150 %*	*1*	*04/03/19*	*NWTPH-Dx*	

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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW20-W (A9C1035-30)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**2190**	---	74.8	ug/L	1	04/03/19	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	04/03/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 75 %*	*Limits: 50-150 %*		*1*	*04/03/19*	*NWTPH-Dx*	
BH03-W (A9C1035-31)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**1850**	---	74.8	ug/L	1	04/03/19	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	04/03/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 74 %*	*Limits: 50-150 %*		*1*	*04/03/19*	*NWTPH-Dx*	
MW27-W (A9C1035-32)				**Matrix: Water**		**Batch: 9040412**		
Diesel	**185**	---	74.8	ug/L	1	04/03/19	NWTPH-Dx	**F-13**
Oil	ND	---	150	ug/L	1	04/03/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 88 %*	*Limits: 50-150 %*		*1*	*04/03/19*	*NWTPH-Dx*	
RW01-W (A9C1035-33)				**Matrix: Water**		**Batch: 9040412**		
Diesel	ND	---	74.8	ug/L	1	04/03/19	NWTPH-Dx	
Oil	ND	---	150	ug/L	1	04/03/19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 88 %*	*Limits: 50-150 %*		*1*	*04/03/19*	*NWTPH-Dx*	

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1-W (A9C1035-01)				**Matrix: Water**		**Batch: 9031322**		
Gasoline Range Organics	**172**	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 112 %*	*Limits: 50-150 %*		*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*113 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
MW01S-W (A9C1035-02)				**Matrix: Water**		**Batch: 9031322**		
Gasoline Range Organics	**133**	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 115 %*	*Limits: 50-150 %*		*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*113 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
MW03S-W (A9C1035-03)				**Matrix: Water**		**Batch: 9031322**		
Gasoline Range Organics	ND	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 115 %*	*Limits: 50-150 %*		*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*117 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
MW12-W (A9C1035-04)				**Matrix: Water**		**Batch: 9031322**		
Gasoline Range Organics	ND	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 113 %*	*Limits: 50-150 %*		*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*118 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
MW23-W (A9C1035-05)				**Matrix: Water**		**Batch: 9031322**		
Gasoline Range Organics	ND	---	100	ug/L	1	03/30/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 115 %*	*Limits: 50-150 %*		*1*	*03/30/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*116 %*	*50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
MW-6-W (A9C1035-06)				**Matrix: Water**		**Batch: 9031322**		
Gasoline Range Organics	**398**	---	100	ug/L	1	03/30/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 118 %*	*Limits: 50-150 %*		*1*	*03/30/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*112 %*	*50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
MW100-W (A9C1035-07)				**Matrix: Water**		**Batch: 9031322**		
Gasoline Range Organics	**390**	---	100	ug/L	1	03/30/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 116 %*	*Limits: 50-150 %*		*1*	*03/30/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*111 %*	*50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
MW13-W (A9C1035-08)				**Matrix: Water**		**Batch: 9040385**		
Gasoline Range Organics	**28500**	---	2000	ug/L	20	04/01/19	NWTPH-Gx (MS)	

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW13-W (A9C1035-08)				**Matrix: Water**			**Batch: 9040385**	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*152 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	*S-02*
MW14-W (A9C1035-09)				**Matrix: Water**			**Batch: 9031329**	
Gasoline Range Organics	**2650**	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 101 %*	*Limits: 50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*2080 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	*S-02*
MW-11-W (A9C1035-10)				**Matrix: Water**			**Batch: 9031329**	
Gasoline Range Organics	**1540**	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 97 %*	*Limits: 50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*93 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
MW16-W (A9C1035-11)				**Matrix: Water**			**Batch: 9031329**	
Gasoline Range Organics	ND	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 93 %*	*Limits: 50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*86 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
MW32-W (A9C1035-12)				**Matrix: Water**			**Batch: 9031329**	
Gasoline Range Organics	ND	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 94 %*	*Limits: 50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*86 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
MW17-W (A9C1035-13)				**Matrix: Water**			**Batch: 9031329**	
Gasoline Range Organics	**1180**	---	100	ug/L	1	03/30/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 99 %*	*Limits: 50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*377 %*	*50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	*S-02*
MW101-W (A9C1035-14)				**Matrix: Water**			**Batch: 9031329**	
Gasoline Range Organics	**1120**	---	100	ug/L	1	03/30/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 97 %*	*Limits: 50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*373 %*	*50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	*S-02*
MW-8-W (A9C1035-15)				**Matrix: Water**			**Batch: 9031329**	
Gasoline Range Organics	**768**	---	100	ug/L	1	03/30/19	NWTPH-Gx (MS)	

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-8-W (A9C1035-15)				**Matrix: Water**		**Batch: 9031329**		
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 96 %*	*Limits: 50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*88 %*	*50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
MW09R-W (A9C1035-16)				**Matrix: Water**		**Batch: 9031329**		
Gasoline Range Organics	**1000**	---	100	ug/L	1	03/30/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*87 %*	*50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
MW31-W (A9C1035-17)				**Matrix: Water**		**Batch: 9031329**		
Gasoline Range Organics	ND	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 96 %*	*Limits: 50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*86 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
BH-2-W (A9C1035-18)				**Matrix: Water**		**Batch: 9031329**		
Gasoline Range Organics	**354**	---	100	ug/L	1	03/30/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 99 %*	*Limits: 50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*87 %*	*50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
MW30-W (A9C1035-19)				**Matrix: Water**		**Batch: 9031329**		
Gasoline Range Organics	ND	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 97 %*	*Limits: 50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*87 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
MW29-W (A9C1035-20)				**Matrix: Water**		**Batch: 9031329**		
Gasoline Range Organics	**237**	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 98 %*	*Limits: 50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*87 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
BH-1R-W (A9C1035-21)				**Matrix: Water**		**Batch: 9031329**		
Gasoline Range Organics	**1130**	---	100	ug/L	1	03/30/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 96 %*	*Limits: 50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*90 %*	*50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
MW102-W (A9C1035-22)				**Matrix: Water**		**Batch: 9031329**		
Gasoline Range Organics	**2600**	---	100	ug/L	1	03/30/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 116 %*	*Limits: 50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW102-W (A9C1035-22)				**Matrix: Water**			**Batch: 9031329**	
Surrogate: 1,4-Difluorobenzene (Sur)			*Recovery: 90 %*	*Limits: 50-150 %*	*1*	*03/30/19*	*NWTPH-Gx (MS)*	
MW28-W (A9C1035-23RE1)				**Matrix: Water**			**Batch: 9040385**	
Gasoline Range Organics	**303**	---	100	ug/L	1	04/01/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 94 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*84 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
MW21-W (A9C1035-24)				**Matrix: Water**			**Batch: 9040385**	
Gasoline Range Organics	**799**	---	100	ug/L	1	04/01/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 95 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*92 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
MW24-W (A9C1035-25)				**Matrix: Water**			**Batch: 9040385**	
Gasoline Range Organics	ND	---	100	ug/L	1	04/01/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 97 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*84 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
MW10R-W (A9C1035-26)				**Matrix: Water**			**Batch: 9040385**	
Gasoline Range Organics	**1020**	---	100	ug/L	1	04/01/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 96 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*86 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
MW25-W (A9C1035-27)				**Matrix: Water**			**Batch: 9040385**	
Gasoline Range Organics	ND	---	100	ug/L	1	04/01/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 94 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*84 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
MW26-W (A9C1035-28)				**Matrix: Water**			**Batch: 9040385**	
Gasoline Range Organics	ND	---	100	ug/L	1	04/01/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 95 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*84 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
MW19-W (A9C1035-29)				**Matrix: Water**			**Batch: 9040385**	
Gasoline Range Organics	**447**	---	100	ug/L	1	04/01/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 96 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*84 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW20-W (A9C1035-30)				**Matrix: Water**		**Batch: 9040385**		
Gasoline Range Organics	**1220**	---	100	ug/L	1	04/01/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 96 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*86 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
BH03-W (A9C1035-31)				**Matrix: Water**		**Batch: 9040385**		
Gasoline Range Organics	**319**	---	100	ug/L	1	04/01/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 95 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*85 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
MW27-W (A9C1035-32)				**Matrix: Water**		**Batch: 9040385**		
Gasoline Range Organics	ND	---	100	ug/L	1	04/01/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 94 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*84 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
RW01-W (A9C1035-33)				**Matrix: Water**		**Batch: 9040385**		
Gasoline Range Organics	ND	---	100	ug/L	1	04/01/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 96 %*	*Limits: 50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*85 %*	*50-150 %*	*1*	*04/01/19*	*NWTPH-Gx (MS)*	
Blank-20190328 (A9C1035-34)				**Matrix: Water**		**Batch: 9031329**		
Gasoline Range Organics	ND	---	100	ug/L	1	03/29/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			*Recovery: 95 %*	*Limits: 50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)			*86 %*	*50-150 %*	*1*	*03/29/19*	*NWTPH-Gx (MS)*	

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1-W (A9C1035-01)				**Matrix: Water**		**Batch: 9031322**		
Benzene	ND	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/29/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*109 %*	*Limits: 80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*97 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*103 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
MW01S-W (A9C1035-02)				**Matrix: Water**		**Batch: 9031322**		
Benzene	ND	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	
Ethylbenzene	**4.18**	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	**8.97**	---	1.50	ug/L	1	03/29/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*109 %*	*Limits: 80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*97 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
MW03S-W (A9C1035-03)				**Matrix: Water**		**Batch: 9031322**		
Benzene	ND	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/29/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*113 %*	*Limits: 80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
MW12-W (A9C1035-04)				**Matrix: Water**		**Batch: 9031322**		
Benzene	ND	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/29/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*114 %*	*Limits: 80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
MW23-W (A9C1035-05)				**Matrix: Water**		**Batch: 9031322**		
Benzene	ND	---	0.200	ug/L	1	03/30/19	EPA 8260C	

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW23-W (A9C1035-05)				**Matrix: Water**		**Batch: 9031322**		
Toluene	ND	---	1.00	ug/L	1	03/30/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/30/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/30/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*112 %*	*Limits: 80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
MW-6-W (A9C1035-06)				**Matrix: Water**		**Batch: 9031322**		
Benzene	ND	---	0.200	ug/L	1	03/30/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/30/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/30/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/30/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*109 %*	*Limits: 80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*97 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
MW100-W (A9C1035-07)				**Matrix: Water**		**Batch: 9031322**		
Benzene	ND	---	0.200	ug/L	1	03/30/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/30/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/30/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/30/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*108 %*	*Limits: 80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*97 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
MW13-W (A9C1035-08)				**Matrix: Water**		**Batch: 9040385**		
Benzene	**701**	---	4.00	ug/L	20	04/01/19	EPA 8260C	
Toluene	**761**	---	20.0	ug/L	20	04/01/19	EPA 8260C	
Ethylbenzene	**804**	---	10.0	ug/L	20	04/01/19	EPA 8260C	
Xylenes, total	**4980**	---	30.0	ug/L	20	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
MW14-W (A9C1035-09)				**Matrix: Water**		**Batch: 9031329**		
Benzene	**17.8**	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW14-W (A9C1035-09)				**Matrix: Water**			**Batch: 9031329**	
Ethylbenzene	**2.04**	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/29/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits: 80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*113 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
MW-11-W (A9C1035-10)				**Matrix: Water**			**Batch: 9031329**	
Benzene	**11.6**	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	**2.34**	---	1.50	ug/L	1	03/29/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
MW16-W (A9C1035-11)				**Matrix: Water**			**Batch: 9031329**	
Benzene	ND	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/29/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*103 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
MW32-W (A9C1035-12)				**Matrix: Water**			**Batch: 9031329**	
Benzene	ND	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/29/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*103 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
MW17-W (A9C1035-13)				**Matrix: Water**			**Batch: 9031329**	
Benzene	**2.91**	---	0.200	ug/L	1	03/30/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/30/19	EPA 8260C	
Ethylbenzene	**0.692**	---	0.500	ug/L	1	03/30/19	EPA 8260C	

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW17-W (A9C1035-13)				**Matrix: Water**		**Batch: 9031329**		
Xylenes, total	**1.50**	---	1.50	ug/L	1	03/30/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*104 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
MW101-W (A9C1035-14)				**Matrix: Water**		**Batch: 9031329**		
Benzene	**2.88**	---	0.200	ug/L	1	03/30/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/30/19	EPA 8260C	
Ethylbenzene	**0.684**	---	0.500	ug/L	1	03/30/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/30/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*104 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
MW-8-W (A9C1035-15)				**Matrix: Water**		**Batch: 9031329**		
Benzene	**22.2**	---	0.200	ug/L	1	03/30/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/30/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/30/19	EPA 8260C	
Xylenes, total	**2.70**	---	1.50	ug/L	1	03/30/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
MW09R-W (A9C1035-16)				**Matrix: Water**		**Batch: 9031329**		
Benzene	**5.64**	---	0.200	ug/L	1	03/30/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/30/19	EPA 8260C	
Ethylbenzene	**0.545**	---	0.500	ug/L	1	03/30/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/30/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*97 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
MW31-W (A9C1035-17)				**Matrix: Water**		**Batch: 9031329**		
Benzene	ND	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/29/19	EPA 8260C	

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW31-W (A9C1035-17)				**Matrix: Water**		**Batch: 9031329**		
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*103 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
BH-2-W (A9C1035-18)				**Matrix: Water**		**Batch: 9031329**		
Benzene	ND	---	0.200	ug/L	1	03/30/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/30/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/30/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/30/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
MW30-W (A9C1035-19)				**Matrix: Water**		**Batch: 9031329**		
Benzene	ND	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/29/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*103 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*98 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
MW29-W (A9C1035-20)				**Matrix: Water**		**Batch: 9031329**		
Benzene	**1.64**	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/29/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*103 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
BH-1R-W (A9C1035-21)				**Matrix: Water**		**Batch: 9031329**		
Benzene	**4.33**	---	0.200	ug/L	1	03/30/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/30/19	EPA 8260C	
Ethylbenzene	**1.15**	---	0.500	ug/L	1	03/30/19	EPA 8260C	
Xylenes, total	**1.78**	---	1.50	ug/L	1	03/30/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*03/30/19*	*EPA 8260C*	

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BH-1R-W (A9C1035-21)				**Matrix: Water**		**Batch: 9031329**		
Surrogate: Toluene-d8 (Surr)		*Recovery:*	*102 %*	*Limits: 80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
MW102-W (A9C1035-22)				**Matrix: Water**		**Batch: 9031329**		
Benzene	**4.56**	---	0.200	ug/L	1	03/30/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/30/19	EPA 8260C	
Ethylbenzene	**1.29**	---	0.500	ug/L	1	03/30/19	EPA 8260C	
Xylenes, total	**2.15**	---	1.50	ug/L	1	03/30/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*98 %*	*80-120 %*	*1*	*03/30/19*	*EPA 8260C*	
MW28-W (A9C1035-23RE1)				**Matrix: Water**		**Batch: 9040385**		
Benzene	**1.30**	---	0.200	ug/L	1	04/01/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/01/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/01/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
MW21-W (A9C1035-24)				**Matrix: Water**		**Batch: 9040385**		
Benzene	ND	---	0.200	ug/L	1	04/01/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/01/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/01/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
MW24-W (A9C1035-25)				**Matrix: Water**		**Batch: 9040385**		
Benzene	ND	---	0.200	ug/L	1	04/01/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/01/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/01/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW24-W (A9C1035-25)				**Matrix: Water**			**Batch: 9040385**	
Surrogate: 4-Bromofluorobenzene (Surr)		*Recovery: 98 %*		*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
MW10R-W (A9C1035-26)				**Matrix: Water**			**Batch: 9040385**	
Benzene	**0.401**	---	0.200	ug/L	1	04/01/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/01/19	EPA 8260C	
Ethylbenzene	**0.837**	---	0.500	ug/L	1	04/01/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 105 %*		*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
MW25-W (A9C1035-27)				**Matrix: Water**			**Batch: 9040385**	
Benzene	ND	---	0.200	ug/L	1	04/01/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/01/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/01/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 105 %*		*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
MW26-W (A9C1035-28)				**Matrix: Water**			**Batch: 9040385**	
Benzene	ND	---	0.200	ug/L	1	04/01/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/01/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/01/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 106 %*		*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
MW19-W (A9C1035-29)				**Matrix: Water**			**Batch: 9040385**	
Benzene	**0.673**	---	0.200	ug/L	1	04/01/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/01/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/01/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 106 %*		*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*98 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW20-W (A9C1035-30)				**Matrix: Water**		**Batch: 9040385**		
Benzene	ND	---	0.200	ug/L	1	04/01/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/01/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/01/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
BH03-W (A9C1035-31)				**Matrix: Water**		**Batch: 9040385**		
Benzene	ND	---	0.200	ug/L	1	04/01/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/01/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/01/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
MW27-W (A9C1035-32)				**Matrix: Water**		**Batch: 9040385**		
Benzene	ND	---	0.200	ug/L	1	04/01/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/01/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/01/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*105 %*	*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
RW01-W (A9C1035-33)				**Matrix: Water**		**Batch: 9040385**		
Benzene	ND	---	0.200	ug/L	1	04/01/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/01/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/01/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/01/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits: 80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*99 %*	*80-120 %*	*1*	*04/01/19*	*EPA 8260C*	
Blank-20190328 (A9C1035-34)				**Matrix: Water**		**Batch: 9031329**		

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Blank-20190328 (A9C1035-34)				**Matrix: Water**			**Batch: 9031329**	
Benzene	ND	---	0.200	ug/L	1	03/29/19	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	03/29/19	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	03/29/19	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	03/29/19	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits:* *80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
Toluene-d8 (Surr)			*103 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*03/29/19*	*EPA 8260C*	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9040389 - EPA 3510C (Fuels/Acid Ext.)												**Water**
Blank (9040389-BLK1)		Prepared: 04/01/19 11:23		Analyzed: 04/01/19 23:02								
NWTPH-Dx												
Diesel	ND	---	72.7	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	145	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 93 %*		*Limits: 50-150 %*			*Dilution: 1x*					
LCS (9040389-BS1)		Prepared: 04/01/19 11:23		Analyzed: 04/01/19 23:22								
NWTPH-Dx												
Diesel	375	---	80.0	ug/L	1	500	---	75	58-115%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 96 %*		*Limits: 50-150 %*			*Dilution: 1x*					
LCS Dup (9040389-BSD1)		Prepared: 04/01/19 11:23		Analyzed: 04/01/19 23:43								**Q-19**
NWTPH-Dx												
Diesel	388	---	80.0	ug/L	1	500	---	78	58-115%	3	20%	
Surr: o-Terphenyl (Surr)		*Recovery: 94 %*		*Limits: 50-150 %*			*Dilution: 1x*					
Batch 9040412 - EPA 3510C (Fuels/Acid Ext.)												**Water**
Blank (9040412-BLK1)		Prepared: 04/02/19 07:00		Analyzed: 04/03/19 01:09								
NWTPH-Dx												
Diesel	ND	---	72.7	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	145	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 94 %*		*Limits: 50-150 %*			*Dilution: 1x*					
LCS (9040412-BS1)		Prepared: 04/02/19 07:00		Analyzed: 04/03/19 01:30								
NWTPH-Dx												
Diesel	409	---	80.0	ug/L	1	500	---	82	58-115%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 95 %*		*Limits: 50-150 %*			*Dilution: 1x*					
LCS Dup (9040412-BSD1)		Prepared: 04/02/19 07:00		Analyzed: 04/03/19 01:50								**Q-19**
NWTPH-Dx												
Diesel	431	---	80.0	ug/L	1	500	---	86	58-115%	5	20%	
Surr: o-Terphenyl (Surr)		*Recovery: 96 %*		*Limits: 50-150 %*			*Dilution: 1x*					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9031322 - EPA 5030B									Water			
Blank (9031322-BLK1)		Prepared: 03/29/19 14:19		Analyzed: 03/29/19 15:40								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 112 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*115 %*		*50-150 %*			*"*				
LCS (9031322-BS2)		Prepared: 03/29/19 14:19		Analyzed: 03/29/19 15:13								
NWTPH-Gx (MS)												
Gasoline Range Organics	519	---	100	ug/L	1	500	---	104	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 98 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*102 %*		*50-150 %*			*"*				

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9031329 - EPA 5030B									Water			
Blank (9031329-BLK1)		Prepared: 03/29/19 16:02		Analyzed: 03/29/19 17:27								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 97 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*86 %*		*50-150 %*			*"*					
LCS (9031329-BS2)		Prepared: 03/29/19 16:02		Analyzed: 03/29/19 16:58								
NWTPH-Gx (MS)												
Gasoline Range Organics	537	---	100	ug/L	1	500	---	107	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 99 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*110 %*		*50-150 %*			*"*					
Duplicate (9031329-DUP1)		Prepared: 03/29/19 17:54		Analyzed: 03/29/19 19:59								
QC Source Sample: MW14-W (A9C1035-09)												
NWTPH-Gx (MS)												
Gasoline Range Organics	**2510**	---	100	ug/L	1	---	2650	---	---	5	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 98 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*2020 %*		*50-150 %*			*"*					S-02
Duplicate (9031329-DUP2)		Prepared: 03/29/19 17:54		Analyzed: 03/29/19 20:56								
QC Source Sample: MW-11-W (A9C1035-10)												
NWTPH-Gx (MS)												
Gasoline Range Organics	**1570**	---	100	ug/L	1	---	1540	---	---	2	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 97 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*90 %*		*50-150 %*			*"*					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9040385 - EPA 5030B									Water			
Blank (9040385-BLK1)		Prepared: 04/01/19 14:44		Analyzed: 04/01/19 16:09								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 94 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*83 %*		*50-150 %*			*"*					
LCS (9040385-BS2)		Prepared: 04/01/19 14:44		Analyzed: 04/01/19 15:41								
NWTPH-Gx (MS)												
Gasoline Range Organics	457	---	100	ug/L	1	500	---	91	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 93 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*102 %*		*50-150 %*			*"*					
Duplicate (9040385-DUP1)		Prepared: 04/01/19 15:58		Analyzed: 04/01/19 22:49								
QC Source Sample: MW13-W (A9C1035-08)												
NWTPH-Gx (MS)												
Gasoline Range Organics	**28900**	---	2000	ug/L	20	---	28500	---	---	2	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 97 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*153 %*		*50-150 %*			*"*					S-02

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Lisa Domenighini, Client Services Manager

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EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9031322 - EPA 5030B							**Water**					
Blank (9031322-BLK1)		Prepared: 03/29/19 14:19		Analyzed: 03/29/19 15:40								
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*111 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*100 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*102 %*		*80-120 %*			*"*				
LCS (9031322-BS1)		Prepared: 03/29/19 14:19		Analyzed: 03/29/19 14:46								
EPA 8260C												
Benzene	18.2	---	0.200	ug/L	1	20.0	---	91	80-120%	---	---	
Toluene	18.4	---	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
Ethylbenzene	17.9	---	0.500	ug/L	1	20.0	---	89	80-120%	---	---	
Xylenes, total	57.5	---	1.50	ug/L	1	60.0	---	96	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*98 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*99 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*97 %*		*80-120 %*			*"*				

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9031329 - EPA 5030B									Water			
Blank (9031329-BLK1)		Prepared: 03/29/19 16:02		Analyzed: 03/29/19 17:27								
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 106 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*102 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*99 %*		*80-120 %*			*"*					
LCS (9031329-BS1)		Prepared: 03/29/19 16:02		Analyzed: 03/29/19 16:30								
EPA 8260C												
Benzene	21.3	---	0.200	ug/L	1	20.0	---	106	80-120%	---	---	
Toluene	20.1	---	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Ethylbenzene	20.0	---	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Xylenes, total	60.2	---	1.50	ug/L	1	60.0	---	100	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 106 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*102 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*98 %*		*80-120 %*			*"*					
Duplicate (9031329-DUP1)		Prepared: 03/29/19 17:54		Analyzed: 03/29/19 19:59								
QC Source Sample: MW14-W (A9C1035-09)												
EPA 8260C												
Benzene	**17.8**	---	0.200	ug/L	1	---	17.8	---	---	0.3	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	**2.05**	---	0.500	ug/L	1	---	2.04	---	---	0.4	30%	
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 96 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*114 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*101 %*		*80-120 %*			*"*					
Duplicate (9031329-DUP2)		Prepared: 03/29/19 17:54		Analyzed: 03/29/19 20:56								
QC Source Sample: MW-11-W (A9C1035-10)												
EPA 8260C												

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9031329 - EPA 5030B												**Water**
Duplicate (9031329-DUP2)		Prepared: 03/29/19 17:54 Analyzed: 03/29/19 20:56										
QC Source Sample: MW-11-W (A9C1035-10)												
Benzene	**11.5**	---	0.200	ug/L	1	---	11.6	---	---	0.9	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	0.474	---	---	***	30%	
Xylenes, total	**2.43**	---	1.50	ug/L	1	---	2.34	---	---	4	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*102 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*100 %*		*80-120 %*			*"*				
Matrix Spike (9031329-MS1)		Prepared: 03/29/19 17:54 Analyzed: 03/30/19 04:00										
QC Source Sample: MW102-W (A9C1035-22)												
EPA 8260C												
Benzene	26.0	---	0.200	ug/L	1	20.0	4.56	107	79-120%	---	---	
Toluene	20.5	---	1.00	ug/L	1	20.0	ND	102	80-121%	---	---	
Ethylbenzene	21.3	---	0.500	ug/L	1	20.0	1.29	100	79-121%	---	---	
Xylenes, total	61.8	---	1.50	ug/L	1	60.0	2.15	99	79-121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*106 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*100 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*100 %*		*80-120 %*			*"*				

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HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9040385 - EPA 5030B									Water			
Blank (9040385-BLK1)		Prepared: 04/01/19 14:44		Analyzed: 04/01/19 16:09								
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 105 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*102 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*100 %*		*80-120 %*			*"*					
LCS (9040385-BS1)		Prepared: 04/01/19 14:44		Analyzed: 04/01/19 15:12								
EPA 8260C												
Benzene	20.2	---	0.200	ug/L	1	20.0	---	101	80-120%	---	---	
Toluene	20.1	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Ethylbenzene	19.6	---	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Xylenes, total	58.4	---	1.50	ug/L	1	60.0	---	97	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 104 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*101 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*100 %*		*80-120 %*			*"*					
Duplicate (9040385-DUP1)		Prepared: 04/01/19 15:58		Analyzed: 04/01/19 22:49								
QC Source Sample: MW13-W (A9C1035-08)												
EPA 8260C												
Benzene	**722**	---	4.00	ug/L	20	---	701	---	---	3	30%	
Toluene	**782**	---	20.0	ug/L	20	---	761	---	---	3	30%	
Ethylbenzene	**829**	---	10.0	ug/L	20	---	804	---	---	3	30%	
Xylenes, total	**5120**	---	30.0	ug/L	20	---	4980	---	---	3	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 106 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*102 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*100 %*		*80-120 %*			*"*					

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9040389							
A9C1035-01	Water	NWTPH-Dx	03/25/19 10:30	04/01/19 11:23	1060mL/2mL	1000mL/2mL	0.94
A9C1035-02	Water	NWTPH-Dx	03/25/19 11:00	04/01/19 11:23	1050mL/2mL	1000mL/2mL	0.95
A9C1035-03	Water	NWTPH-Dx	03/25/19 11:35	04/01/19 11:23	1050mL/2mL	1000mL/2mL	0.95
A9C1035-04	Water	NWTPH-Dx	03/25/19 12:05	04/01/19 11:23	1050mL/2mL	1000mL/2mL	0.95
A9C1035-05	Water	NWTPH-Dx	03/25/19 12:55	04/01/19 11:23	1050mL/2mL	1000mL/2mL	0.95
A9C1035-06	Water	NWTPH-Dx	03/25/19 13:30	04/01/19 11:23	1050mL/2mL	1000mL/2mL	0.95
A9C1035-07	Water	NWTPH-Dx	03/25/19 13:30	04/01/19 11:23	1050mL/2mL	1000mL/2mL	0.95
A9C1035-08	Water	NWTPH-Dx	03/25/19 14:10	04/01/19 11:23	1060mL/2mL	1000mL/2mL	0.94
A9C1035-09	Water	NWTPH-Dx	03/25/19 14:45	04/01/19 11:23	1060mL/2mL	1000mL/2mL	0.94
A9C1035-10	Water	NWTPH-Dx	03/26/19 08:05	04/01/19 13:10	1060mL/2mL	1000mL/2mL	0.94
A9C1035-11	Water	NWTPH-Dx	03/26/19 09:20	04/01/19 13:10	1070mL/2mL	1000mL/2mL	0.94
A9C1035-12	Water	NWTPH-Dx	03/26/19 10:15	04/01/19 13:10	1070mL/2mL	1000mL/2mL	0.94
A9C1035-13	Water	NWTPH-Dx	03/26/19 10:55	04/01/19 13:10	1060mL/2mL	1000mL/2mL	0.94
A9C1035-14	Water	NWTPH-Dx	03/26/19 10:55	04/01/19 13:10	1050mL/2mL	1000mL/2mL	0.95
A9C1035-15	Water	NWTPH-Dx	03/26/19 08:40	04/01/19 13:10	1070mL/2mL	1000mL/2mL	0.94
A9C1035-16	Water	NWTPH-Dx	03/26/19 13:05	04/01/19 13:10	1060mL/2mL	1000mL/2mL	0.94
A9C1035-17	Water	NWTPH-Dx	03/27/19 08:25	04/01/19 13:10	1070mL/2mL	1000mL/2mL	0.94
A9C1035-18	Water	NWTPH-Dx	03/27/19 09:00	04/01/19 13:10	1070mL/2mL	1000mL/2mL	0.94
A9C1035-19	Water	NWTPH-Dx	03/27/19 09:40	04/01/19 13:10	1070mL/2mL	1000mL/2mL	0.94
A9C1035-20	Water	NWTPH-Dx	03/27/19 10:30	04/01/19 13:10	1060mL/2mL	1000mL/2mL	0.94
Batch: 9040412							
A9C1035-21RE1	Water	NWTPH-Dx	03/27/19 11:10	04/02/19 07:00	1060mL/2mL	1000mL/2mL	0.94
A9C1035-22RE1	Water	NWTPH-Dx	03/27/19 11:10	04/02/19 07:00	1070mL/2mL	1000mL/2mL	0.94
A9C1035-23	Water	NWTPH-Dx	03/27/19 12:55	04/02/19 07:00	1060mL/2mL	1000mL/2mL	0.94
A9C1035-24	Water	NWTPH-Dx	03/28/19 08:15	04/02/19 07:00	1060mL/2mL	1000mL/2mL	0.94
A9C1035-25	Water	NWTPH-Dx	03/28/19 08:55	04/02/19 07:00	1070mL/2mL	1000mL/2mL	0.94
A9C1035-26	Water	NWTPH-Dx	03/28/19 08:35	04/02/19 07:00	1060mL/2mL	1000mL/2mL	0.94
A9C1035-27	Water	NWTPH-Dx	03/28/19 10:15	04/02/19 07:00	1070mL/2mL	1000mL/2mL	0.94
A9C1035-28	Water	NWTPH-Dx	03/28/19 10:45	04/02/19 07:00	1070mL/2mL	1000mL/2mL	0.94
A9C1035-29	Water	NWTPH-Dx	03/28/19 11:30	04/02/19 07:00	1070mL/2mL	1000mL/2mL	0.94
A9C1035-30	Water	NWTPH-Dx	03/28/19 10:45	04/02/19 09:54	1070mL/2mL	1000mL/2mL	0.94
A9C1035-31	Water	NWTPH-Dx	03/28/19 10:00	04/02/19 09:54	1070mL/2mL	1000mL/2mL	0.94
A9C1035-32	Water	NWTPH-Dx	03/28/19 09:20	04/02/19 09:54	1070mL/2mL	1000mL/2mL	0.94
A9C1035-33	Water	NWTPH-Dx	03/28/19 08:35	04/02/19 09:54	1070mL/2mL	1000mL/2mL	0.94

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9031322							
A9C1035-01	Water	NWTPH-Gx (MS)	03/25/19 10:30	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-02	Water	NWTPH-Gx (MS)	03/25/19 11:00	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-03	Water	NWTPH-Gx (MS)	03/25/19 11:35	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-04	Water	NWTPH-Gx (MS)	03/25/19 12:05	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-05	Water	NWTPH-Gx (MS)	03/25/19 12:55	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-06	Water	NWTPH-Gx (MS)	03/25/19 13:30	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-07	Water	NWTPH-Gx (MS)	03/25/19 13:30	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
Batch: 9031329							
A9C1035-09	Water	NWTPH-Gx (MS)	03/25/19 14:45	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-10	Water	NWTPH-Gx (MS)	03/26/19 08:05	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-11	Water	NWTPH-Gx (MS)	03/26/19 09:20	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-12	Water	NWTPH-Gx (MS)	03/26/19 10:15	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-13	Water	NWTPH-Gx (MS)	03/26/19 10:55	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-14	Water	NWTPH-Gx (MS)	03/26/19 10:55	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-15	Water	NWTPH-Gx (MS)	03/26/19 08:40	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-16	Water	NWTPH-Gx (MS)	03/26/19 13:05	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-17	Water	NWTPH-Gx (MS)	03/27/19 08:25	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-18	Water	NWTPH-Gx (MS)	03/27/19 09:00	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-19	Water	NWTPH-Gx (MS)	03/27/19 09:40	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-20	Water	NWTPH-Gx (MS)	03/27/19 10:30	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-21	Water	NWTPH-Gx (MS)	03/27/19 11:10	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-22	Water	NWTPH-Gx (MS)	03/27/19 11:10	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-34	Water	NWTPH-Gx (MS)	03/28/19 11:10	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
Batch: 9040385							
A9C1035-08	Water	NWTPH-Gx (MS)	03/25/19 14:10	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-23RE1	Water	NWTPH-Gx (MS)	03/27/19 12:55	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-24	Water	NWTPH-Gx (MS)	03/28/19 08:15	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-25	Water	NWTPH-Gx (MS)	03/28/19 08:55	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-26	Water	NWTPH-Gx (MS)	03/28/19 08:35	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-27	Water	NWTPH-Gx (MS)	03/28/19 10:15	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-28	Water	NWTPH-Gx (MS)	03/28/19 10:45	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-29	Water	NWTPH-Gx (MS)	03/28/19 11:30	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-30	Water	NWTPH-Gx (MS)	03/28/19 10:45	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-31	Water	NWTPH-Gx (MS)	03/28/19 10:00	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-32	Water	NWTPH-Gx (MS)	03/28/19 09:20	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

Lisa Domenighini, Client Services Manager

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Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9C1035-33	Water	NWTPH-Gx (MS)	03/28/19 08:35	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00

BTEX Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9031322							
A9C1035-01	Water	EPA 8260C	03/25/19 10:30	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-02	Water	EPA 8260C	03/25/19 11:00	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-03	Water	EPA 8260C	03/25/19 11:35	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-04	Water	EPA 8260C	03/25/19 12:05	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-05	Water	EPA 8260C	03/25/19 12:55	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-06	Water	EPA 8260C	03/25/19 13:30	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
A9C1035-07	Water	EPA 8260C	03/25/19 13:30	03/29/19 15:18	5mL/5mL	5mL/5mL	1.00
Batch: 9031329							
A9C1035-09	Water	EPA 8260C	03/25/19 14:45	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-10	Water	EPA 8260C	03/26/19 08:05	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-11	Water	EPA 8260C	03/26/19 09:20	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-12	Water	EPA 8260C	03/26/19 10:15	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-13	Water	EPA 8260C	03/26/19 10:55	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-14	Water	EPA 8260C	03/26/19 10:55	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-15	Water	EPA 8260C	03/26/19 08:40	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-16	Water	EPA 8260C	03/26/19 13:05	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-17	Water	EPA 8260C	03/27/19 08:25	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-18	Water	EPA 8260C	03/27/19 09:00	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-19	Water	EPA 8260C	03/27/19 09:40	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-20	Water	EPA 8260C	03/27/19 10:30	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-21	Water	EPA 8260C	03/27/19 11:10	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-22	Water	EPA 8260C	03/27/19 11:10	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
A9C1035-34	Water	EPA 8260C	03/28/19 11:10	03/29/19 17:54	5mL/5mL	5mL/5mL	1.00
Batch: 9040385							
A9C1035-08	Water	EPA 8260C	03/25/19 14:10	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-23RE1	Water	EPA 8260C	03/27/19 12:55	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-24	Water	EPA 8260C	03/28/19 08:15	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-25	Water	EPA 8260C	03/28/19 08:55	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-26	Water	EPA 8260C	03/28/19 08:35	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

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Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

SAMPLE PREPARATION INFORMATION

BTEX Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9C1035-27	Water	EPA 8260C	03/28/19 10:15	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-28	Water	EPA 8260C	03/28/19 10:45	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-29	Water	EPA 8260C	03/28/19 11:30	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-30	Water	EPA 8260C	03/28/19 10:45	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-31	Water	EPA 8260C	03/28/19 10:00	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-32	Water	EPA 8260C	03/28/19 09:20	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00
A9C1035-33	Water	EPA 8260C	03/28/19 08:35	04/01/19 15:58	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

F-03	The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
F-11	The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
F-15	Results for diesel are estimated due to overlap from the reported oil result.
F-16	Results for oil are estimated due to overlap from the reported diesel result.
F-20	Result for Diesel is Estimated due to overlap from Gasoline Range Organics or other VOCs.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
S-02	Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
S-06	Surrogate recovery is outside of established control limits.

Apex Laboratories

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Lisa Domenighini, Client Services Manager

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EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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Lisa Domenighini, Client Services Manager

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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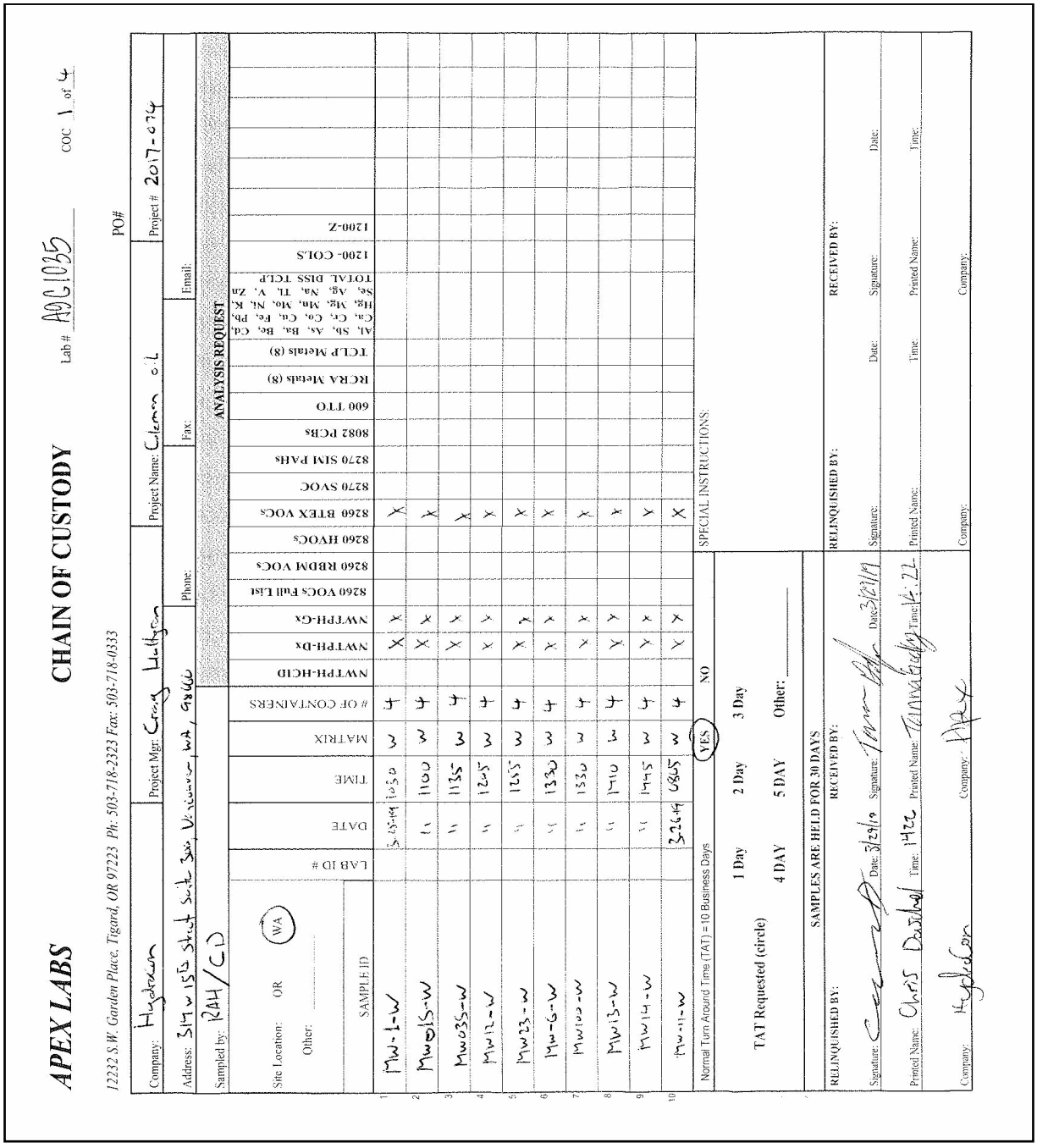
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**



APEX LABS — **CHAIN OF CUSTODY** — Lab # A9C1035 — COC 1 of 4 — PO#

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: Hydrocon — Project Mgr: Craig Hultgren — Phone: — Project Name: Coleman 0.6 — Project # 2017-074

Address: 314 W 15th Street Suite 300, Vancouver, WA, 98660 — Fax: — Email:

Sampled by: RAH/CD

Site Location: OR (WA) — Other:

	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOCs Full List	8260 RBDMI VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200- COLS	1200-Z
1	MW-1-W		3/29/19	1050	W	4		X	X				X									
2	MW15-W		"	1100	W	4		X	X				X									
3	MW035-W		"	1135	W	4		X	X				X									
4	MW12-W		"	1205	W	4		X	X				X									
5	MW23-W		"	1255	W	4		X	X				X									
6	MW-6-W		"	1330	W	4		X	X				X									
7	MW105-W		"	1530	W	2		X	X				X									
8	MW13-W		"	1615	W	4		X	X				X									
9	MW14-W		"	1705	W	4		X	X				X									
10	MW-11-W		3/26/19	0905	W	4		X	X				X									

Normal Turn Around Time (TAT) =10 Business Days — YES / NO

TAT Requested (circle): 1 Day, 2 Day, 3 Day, 4 DAY, 5 DAY, Other: _____

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: — RECEIVED BY: — RELINQUISHED BY: — RECEIVED BY:

Signature: — Date: 3/29/19 — Signature: — Date: 3/29/19 — Signature: — Date: — Signature: — Date:

Printed Name: Chris Dashiell — Time: 1432 — Printed Name: — Time: 1432 — Printed Name: — Time: — Printed Name: — Time:

Company: — Company: APEX — Company: — Company:

Apex Laboratories

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

APEX LABS — **CHAIN OF CUSTODY** — Lab # A9C1035 — COC 2 of 4

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: See Page 1 | Project Mgr: | Project Name: | PO# | Project # 2017-074

Address: | Phone: | Fax: | Email:

Sampled by: RAH/CD

Site Location: OR (WA) — Other:

ANALYSIS REQUEST

	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200- COLS	1200-Z
1	MW16-W		3-26-19	0920	W	4		X	X				X									
2	MW32-W		"	1015	W	4		X	X				X									
3	MW17-W		"	1055	W	4		X	X				X									
4	MW101-W		"	1055	W	4		X	X				X									
5	MW-8-W		"	0840	W	4		X	X				X									
6	MW91R-W		"	1305	W	4		X	X				X									
7	MW31-W		3-27-19	0825	W	4		X	X				X									
8	BH-2-W		"	0900	W	4		X	X				X									
9	MW30-W		"	0940	W	4		X	X				X									
10	MW29-W		"	1030	W	4		X	X				X									

Normal Turn Around Time (TAT) = 10 Business Days (YES) NO

TAT Requested (circle): 1 Day, 2 Day, 3 Day, 4 DAY, 5 DAY, Other: ______

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 3/29/19	Signature: [signature] Date: 3/29/19	Signature: Date:	Signature: Date:
Printed Name: Chris Dashel Time: 1422	Printed Name: Tanna Gadry Time: 14:22	Printed Name: Time:	Printed Name: Time:
Company: HydroCon	Company: Apex	Company:	Company:

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Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	A9C1035 - 04 04 19 1058

APEX LABS — CHAIN OF CUSTODY

Lab # A9C1035 COC 3 of 4

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

PO#

Company: SCL Pipe | Project Mgr: | Project Name: | Project # 2017-074

Address: | Phone: | Fax: | Email:

Sampled by: RAH/CD

Site Location: OR (WA circled) Other:

ANALYSIS REQUEST

#	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200-COLS	1200-Z
1	BH-12-W		3-27-19	1110	W	4		X	X				X									
2	MW102-W		"	1116	W	4		X	X				X									
3	MW28-W		"	1255	W	4		X	X				X									
4	MW21-W		3-28-19	0815	W	4		X	X				X									
5	MW24-W		"	0855	W	4		X	X				X									
6	MW10R-W		"	0835	W	4		X	X				X									
7	MW25-W		"	1015	W	4		X	X				X									
8	MW26-W		"	1045	W	4		X	X				X									
9	MW19-W		"	1130	W	4		X	X				X									
10	MW20-W		"	1045	W	4		X	X				X									

Normal Turn Around Time (TAT) = 10 Business Days (YES circled) NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ______

SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 3/29/19	Signature: [signature] Date: 3/29/19	Signature: Date:	Signature: Date:
Printed Name: Chris Daschel Time: 1422	Printed Name: Tannabodley Time: 14:22	Printed Name: Time:	Printed Name: Time:
Company: HydroCon	Company: Apex	Company:	Company:

Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project:	**Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number:	**2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager:	**Craig Hultgren**	**A9C1035 - 04 04 19 1058**

APEX LABS

CHAIN OF CUSTODY

Lab # A9C1035 COC 4 of 4

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

PO#

Company: Sec Bgl Project Mgr: Project Name: Project # 2017-074

Address: Phone: Fax: Email:

Sampled by: RAH/CD

Site Location: OR (WA) circled

Other:

ANALYSIS REQUEST

#	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200- COLS	1200-Z
1	BHC3-W		3-28-19	1000	W	4	X	X	X				X									
2	MW27-W		"	0920	W	4		X	X				X									
3	RWC1-W		"	0835	W	4		X	X				X									
4	Blank-20190328		"	1110	W	3							X									
5																						
6																						
7																						
8																						
9																						
10																						

Normal Turn Around Time (TAT) = 10 Business Days (YES) NO

TAT Requested (circle) 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ________

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 3/29/19	Signature: [signature] Date: 3/29/19	Signature: Date:	Signature: Date:
Printed Name: Chris Dashel Time: 1422	Printed Name: Tanna Godfrey Time: 14:22	Printed Name: Time:	Printed Name: Time:
Company: HydroCon	Company: Apex	Company:	Company:

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Laboratories, LLC
12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

HydroCon LLC	Project: **Coleman Wenatchee**	
314 W 15th Street Suite 300	Project Number: **2017-074**	**Report ID:**
Vancouver, WA 98660	Project Manager: **Craig Hultgren**	**A9C1035 - 04 04 19 1058**

APEX LABS COOLER RECEIPT FORM

Client: HydroCon Element WO#: A9C1035

Project/Project #: Coleman oil

Delivery Info:

Date/time received: 3/29/19 @ 19:22 By: TAG

Delivered by: Apex ___ Client ✓ ESS ___ FedEx ___ UPS ___ Swift ___ Senvoy ___ SDS ___ Other ___

Cooler Inspection Date/time inspected: 3/29/19 @ 14:22 By: TAG

Chain of Custody included? Yes X No ___ Custody seals? Yes ___ No X

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	4.9	1.3	2.6	2.3	1.8		
Received on ice? (Y/N)	Y	Y	Y	Y	Y		
Temp. blanks? (Y/N)	N	N	N	N	N		
Ice type: (Gel/Real/Other)	Re	R	R	R	R		
Condition:	good	good	good	good	good		

Cooler out of temp? (Y/N) Possible reason why: ___

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/NA

Out of temperature samples form initiated? Yes/No/NA

Samples Inspection: Date/time inspected: 3/29/19 @ 1530 By: JS

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes ___ No X Comments: MW10R-W Ton reads 935. 1/3 VOAs cont. reads ~~MW100-W~~ JS 3/29/19 1300 sample MW100-W

COC/container discrepancies form initiated? Yes ___ No ___ NA X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: ___

Do VOA vials have visible headspace? Yes ___ No X NA ___

Comments ___

Water samples: pH checked: Yes X No ___ NA ___ pH appropriate? Yes X No ___ NA ___

Comments: ___

Additional information: 5 TBs # 2014 received but not listed on CoC

Labeled by: Witness: Cooler Inspected by: See Project Contact Form: Y

JS JS

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

APPENDIX C

DATA QUALITY REVIEW REPORT

TO:	Craig Hultgren, HydroCon
FROM:	Manon Tanner-Dave
DATE:	April 15, 2019
SUBJECT:	Laboratory Validation Report

HydroCon TOC Site No.	Coleman Wenatchee – 2017-074		
Sampling Event Type:	Water Sampling	**Number of Samples:**	34
Laboratory Work Order:	A9C1035	**Final Report Date & Time:**	April 4, 2019

Analysis & Method

- ☒ Gasoline Range Hydrocarbon (NWTPH-Gx)
- ☒ Diesel Range Hydrocarbon without Silica Gel (NWTPH-Dx) ☐
- ☐ Diesel Range Organics with Silica Gel (NWTPH-DxSG)
- ☐ Volatile Organic Compounds (EPA 8260C)
- ☒ BTEX (EPA 8260C)
- ☐ Total Lead (EPA 6020A), Organic Lead and Manganese Speciation (GC/ECD)
- ☐ Sulfate (300.0)
- ☐ Other

Data Package Completeness:

Data package was complete.

EDD to Hardcopy Verification:

An EDD was not provided.

Technical Data Validation:

- ☒ Holding Times & Sample Receipt
- ☒ Surrogate Compounds
- ☒ Associated Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- ☒ Associated Laboratory Duplicate
- ☒ Laboratory Control Sample/ Laboratory Control Sample Duplicates (LCS/LCSD)
- ☒ Method Blank
- ☒ Field Duplicates
- ☒ Target Analyte List
- ☒ Reporting Limits (MDL and MRL)
- ☒ Reported Results

Holding Times & Sample Receipt:

All holding times and sample receipt were acceptable.

Surrogate Compounds:

All surrogate percent recoveries (%R) were within laboratory limits, with the exceptions noted below:

Sample ID	Laboratory ID	Analysis	Surrogate %R	QC Limits	Qualifier/Comments
MW-8-W	A9C1035-15	NWTPH-Dx	o-Terphenyl: 46%	50-150%	S-06: J/UJ-SSR all results.
MW13-W	A9C1035-08	NWTPH-Gx	1,4-Difluorobenzene: 152%	50-150%	S-02: J-SSR result.
MW14-W	A9C1035-09	NWTPH-Gx	1,4-Difluorobenzene: 2080%	50-150%	S-02: J-SSR result.
MW17-W	A9C1035-13	NWTPH-Gx	1,4-Difluorobenzene: 377%	50-150%	S-02: J-SSR result.
MW101-W	A9C1035-14	NWTPH-Gx	1,4-Difluorobenzene: 373%	50-150%	S-02: J-SSR result.

Associated Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Matrix spikes were analyzed at the appropriate frequency and all %R were within the acceptance criteria, with the following exceptions.

NWTPH-Dx: Laboratory control sample duplicate (LCSD) analyzed in place of matrix spike/duplicate samples due to limited sample amount available for analysis.

Associated Laboratory Duplicate:

Laboratory duplicates were analyzed at the appropriate frequency and all %D were within the acceptance criteria.

Laboratory Control Sample/Laboratory Control Sample Duplicates:

LCS were analyzed at the appropriate frequency and all %R were within the acceptance criteria.

Method Blank:

Method blanks were analyzed at the appropriate frequency and were non-detect (ND) for all target analytes.

NWTPH-Gx & BTEX: One field blank (Blank-20190328) was collected and analyzed; all results were ND for the target analytes.

Field Duplicate(s):

Three sets of parent/field duplicate samples were collected and analyzed (MW-6-W/MW100-W, MW17-W/MW101-W, and BH-1R-W/MW102/W); all RPDs were within control limits, with the following exceptions:

Sample/Duplicate Pair	Analyte	Sample Result	Duplicate Result	RPD	Control Limit	Comments/Qualifiers
BH-1R-W/MW102-W	Gasoline Range Organics	1130	2600	78.8%	35%	Both results were >5x the MRL; J-REP qualify result.

Target Analyte List:

All requested analytes were present.

Reporting Limits (MDL and MRL):

Reporting limits were within the acceptance criteria, with the following exceptions noted below:

Select samples had elevated MRLs due to sample dilution as a result of high analyte concentrations or matrix interference issues. Results were reported from the dilution analyses, as applicable.

Reported Results:

All reported results are acceptable; except for the rejected Oxygenates results.

Laboratory qualifiers for NWTPH-Dx:

- (F-03) The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
    - J/UJ-Other qualify affected results.
- (F-11) The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
    - J/UJ-Other qualify affected results.
- (F-13) The chromatographic pattern does not resemble the fuel standard used for quantitation.
    - J/UJ-Chrom qualify affected results.
- (F-15) Results for diesel are estimated due to overlap from the reported oil result.
    - J/UJ-Mi qualify affected results.
- (F-16) Results for oil are estimated due to overlap from the reported diesel result.
    - J/UJ-Mi qualify affected results.
- (F-20) Result for Diesel is estimated due to overlap from Gasoline Range Organics or other VOCs.
    - J/UJ-Mi qualify affected results.

Laboratory qualifiers for NWTPH-Gx:

- (S-02) Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
    - J/UJ-SSR qualify affected results.

Lab Validation Assessment

Analytical results are usable to meet the project objectives.

Data Quality Review Statement for Report

Aside from the data quality issues discussed above, the data quality review identified no concerns with respect to the quality or usability of the data presented herein.

Appendix A. Data Validation Qualifiers and Definitions

The following lists the data validation qualifier codes and their definitions that were assigned to analytical results in this data validation review process.

Data Validation Qualifiers and Definitions:

☐ (R) The sample result is reject due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

☐ (DNR) Do not report. A more appropriate result is reported from another analysis or dilution.

Appendix B. Data Validation Qualified Summary Table

Laboratory qualifiers:

- (F-03) The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- (F-11) The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
- (F-13) The chromatographic pattern does not resemble the fuel standard used for quantitation.
- (F-15) Results for diesel are estimated due to overlap from the reported oil result.
- (F-16) Results for oil are estimated due to overlap from the reported diesel result.
- (F-20) Result for Diesel is estimated due to overlap from Gasoline Range Organics or other VOCs.
- (S-02) Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- (S-06) Surrogate recovery is outside of established control limits.

Validation qualifiers:

- (J) The result is an estimated quantity.
- (UJ) Estimated and not detected. The analyte is considered not detected at the reported value, and the associated numerical value is an estimated value.

Reason codes:

- Chrom = Chromatographic pattern doesn't match the pattern of the calibration standard.
- Mi = Matrix interference.
- Other = Other, described in data validation report.
- REP = Precision (all replicates).
- SSR = Surrogate spike recovery.

Appendix B. Validator Qualified Data Summary Table

Sample	Laboratory ID	Method	Parameter Name	Result	Result Units	Laboratory Qualifier	Validator Qualifier	Reason Code
MW-1-W	A9C1035-01	NWTPH-Dx	Diesel	126	µg/L	F-11, F-20	J	Other, Mi
MW01S-W	A9C1035-02	NWTPH-Dx	Diesel	116	µg/L	F-11, F-20	J	Other, Mi
MW23-W	A9C1035-05	NWTPH-Dx	Diesel	339	µg/L	F-11	J	Other
MW-6-W	A9C1035-06	NWTPH-Dx	Diesel	1010	µg/L	F-13, F-20	J	Chrom, Mi
MW100-W	A9C1035-07	NWTPH-Dx	Diesel	1130	µg/L	F-13, F-20	J	Chrom, Mi
MW13-W	A9C1035-08	NWTPH-Dx	Diesel	4650	µg/L	F-11, F-20	J	Other, Mi
MW14-W	A9C1035-09	NWTPH-Dx	Diesel	1070	µg/L	F-11, F-20	J	Other, Mi
MW-11-W	A9C1035-10	NWTPH-Dx	Diesel	1130	µg/L	F-13, F-20	J	Chrom, Mi
MW16-W	A9C1035-11	NWTPH-Dx	Diesel	183	µg/L	F-11	J	Other
MW32-W	A9C1035-12	NWTPH-Dx	Diesel	296	µg/L	F-11	J	Other
MW17-W	A9C1035-13	NWTPH-Dx	Diesel	2520	µg/L	F-13, F-20	J	Chrom, Mi
MW101-W	A9C1035-14	NWTPH-Dx	Diesel	3220	µg/L	F-13, F-20	J	Chrom, Mi
MW-8-W	A9C1035-15	NWTPH-Dx	Diesel	2220	µg/L	F-13, F-20, S-06	J	Chrom, Mi, SSR
MW-8-W	A9C1035-15	NWTPH-Dx	Oil	< 150	µg/L	S-06	UJ	SSR
MW09R-W	A9C1035-16	NWTPH-Dx	Diesel	5690	µg/L	F-13, F-20	J	Chrom, Mi
BH-2-W	A9C1035-18	NWTPH-Dx	Diesel	5310	µg/L	F-13, F-15	J	Chrom, Mi
BH-2-W	A9C1035-18	NWTPH-Dx	Oil	475	µg/L	F-03, F-16	J	Other, Mi
MW30-W	A9C1035-19	NWTPH-Dx	Diesel	612	µg/L	F-13	J	Chrom
MW29-W	A9C1035-20	NWTPH-Dx	Diesel	2930	µg/L	F-13, F-15	J	Chrom, Mi
MW29-W	A9C1035-20	NWTPH-Dx	Oil	928	µg/L	F-16	J	Mi

BH-1R-W	A9C1035-21RE1	NWTPH-Dx	Diesel	13600	µg/L	F-13	J	Chrom
MW102-W	A9C1035-22RE1	NWTPH-Dx	Diesel	15500	µg/L	F-13	J	Chrom
MW28-W	A9C1035-23	NWTPH-Dx	Diesel	1370	µg/L	F-13	J	Chrom
MW21-W	A9C1035-24	NWTPH-Dx	Diesel	1400	µg/L	F-13	J	Chrom
MW24-W	A9C1035-25	NWTPH-Dx	Diesel	695	µg/L	F-13	J	Chrom
MW10R-W	A9C1035-26	NWTPH-Dx	Diesel	2960	µg/L	F-13	J	Chrom
MW25-W	A9C1035-27	NWTPH-Dx	Diesel	302	µg/L	F-11	J	Other
MW26-W	A9C1035-28	NWTPH-Dx	Diesel	591	µg/L	F-13	J	Chrom
MW19-W	A9C1035-29	NWTPH-Dx	Diesel	4300	µg/L	F-13	J	Chrom
MW20-W	A9C1035-30	NWTPH-Dx	Diesel	2190	µg/L	F-13	J	Chrom
BH03-W	A9C1035-31	NWTPH-Dx	Diesel	1850	µg/L	F-13	J	Chrom
MW27-W	A9C1035-32	NWTPH-Dx	Diesel	185	µg/L	F-13	J	Chrom
MW13-W	A9C1035-08	NWTPH-Gx	Gasoline Range Organics	28500	µg/L	S-02	J	SSR
MW14-W	A9C1035-09	NWTPH-Gx	Gasoline Range Organics	2650	µg/L	S-02	J	SSR
MW17-W	A9C1035-13	NWTPH-Gx	Gasoline Range Organics	1180	µg/L	S-02	J	SSR
MW101-W	A9C1035-14	NWTPH-Gx	Gasoline Range Organics	1120	µg/L	S-02	J	SSR
BH-1R-W	A9C1035-21	NWTPH-Gx	Gasoline Range Organics	1130	µg/L		J	REP
MW102-W	A9C1035-22	NWTPH-Gx	Gasoline Range Organics	2600	µg/L		J	REP

APPENDIX D

WATER LEVEL AND PRODUCT THICKNESS MEASUREMENTS FORM

Depth to Water/Depth to Product Measurements

Coleman Oil Wenatchee, Washington

Date:

Well ID	**Total Well Depth** (feet bgs)	**Well Diameter** (inch)	**Screened Interval** (feet bgs)	**Well Casing Elevation** (feet)	**Depth to Water** (feet BTOC)	**Depth to Product** (feet BTOC)	**Sheen Detected** (Y/N)
MW-1	35.00	2	20-35	658.01			
MW01S	19.99	4	5.37 - 20.37	657.54			
MW-2	40.00	2	25-40	657.76			
MW-3	35.00	2	25-35	658.26			
MW03S	19.30	4	4.43 - 19.43	658.17			
MW-4	37.00	2	27-37	657.48			
MW-5	45.00	2	30-45	656.00			
MW-6	18.00	4	8-18	657.70			
MW-7	20.00	4	10-20	657.52			
MW-8	25.00	4	15-25	656.20			
MW-9R	24.00	4	14-24	655.29			
MW-10R	30.00	2	14-30	645.80			
MW-11	22.00	4	12-22	658.00			
MW12	19.52	4	4.63 - 19.63	658.27			
MW13	19.80	4	4.91 - 19.91	657.04			
MW14	20.02	4	5.23 - 20.23	657.15			
MW15	35.10	4	10.33 - 35.33	654.99			
MW16	29.15	4	9.28 - 29.28	656.93			
MW17	29.41	4	9.52 - 29.52	655.55			
MW18	34.65	4	15.86 - 35.86	654.51			
MW19	31.48	4	11.66 - 31.66	653.31			
MW20	29.50	4	9.79 - 29.79	650.85			
MW21	32.10	4	12.30 - 32.30	643.88			
MW22	39.10	4	9.19 - 34.19	641.85			
MW23	22.04	4	7.13 - 22.13	656.91			
MW24	30.00	4	14.17-34.17	644.38			
MW25	35.00	4	12.81-32.81	645.57			
MW26	30.00	4	13.54-33.54	646.65			
MW27	30.00	4	13.56-38.56	649.00			
MW28	38.74	4	13.62-38.62	650.64			
MW29	39.11	4	14.05-39.05	652.34			
MW30	39.79	4	14.67-39.67	652.83			
MW31	39.28	4	14.11-39.11	653.97			
MW32	34.02	4	8.95-33.95	655.83			
BH01R	40.00	4	14.52-39.97	651.03			
BH-2	35.00	2	20-35	653.77			
BH-3	30.00	2	15-30	648.76			
RW-1	30.00	3	15-30	650.42			

Notes:

bgs = below ground surface

BTOC = below top of casing

Sheen = audible sound at the surface of the water table that is less than 0.01' thick