Groundwater Monitoring Report August 2019

Coleman Oil Company Facility 3 East Chehalis Street Wenatchee, Washington

Prepared for:
Coleman Oil Company
335 Mill Road
Lewiston, Idaho 83501

October 21, 2019

Prepared by:



HydroCon, LLC 314 W 15th Street, Suite 300, Vancouver, Washington 98660 Phone: (360) 703-6079 Fax: (360) 703-6086 www.hydroconllc.net

Groundwater Monitoring Report – August 2019

Coleman Oil Company Facility 3 East Chehalis Street Wenatchee, Washington

Prepared for: Coleman Oil Company 335 Mill Road Lewiston, Idaho 83501

HydroCon Project No: 2017-074

Prepared by:

Craig Hultgren, LHG Principal Geologist CRAIG HULTGREN

Table of Contents

1.0	INTRODUCTION		
	1.1	Document Organization	1
2.0	BACKGROUND INFORMATION		2
	2.1	Site Description	2
	2.2	Site History	2
	2.3	Remedial Measures	2
	2.4	Geologic & Hydrogeologic Setting	4
	2.5	Hydraulic Testing	4
	2.6	Previous Groundwater Monitoring	5
	2.7	Monitoring Well Identification	6
3.0	FIELD WORK		
	3.1	Groundwater Sampling Procedures	7
	3.2	Laboratory Analysis	8
4.0	GROUNDWATER MONITORING RESULTS		9
	4.1	Groundwater Conditions	9
	4.2	Groundwater Sampling Results	9
	4.3	Monitored Natural Attenuation Parameters	11
	4.3.1	Field Parameters	11
	4.3.2	Chemical Analysis	
	4.4	Data Quality Review	12
5.0	DISCUSSION		13
	5.1	Discussion of Laboratory Results	13
	5.2	Trends in GRPH and DRPH Concentrations in Groundwater	13
	5.3	Extent of Groundwater Contamination	_
	5.3.1	,	
		Gasoline Range Petroleum Hydrocarbons	
6.0	FUTURE MONITORING SCHEDULE		18
	6.1	Daily Columbia River Level and Water Level Measurements	18
	6.2	Weekly to Monthly Water Level and Product Thickness Measurements	18
	6.3	Future Groundwater Sampling	
7.0	QUAL	IFICATIONS	19
8.0	REFERENCES		20
	FIGUR	ES	21

List of Figures

Figure 1 – Site Location Map

Figure 2 – Site Features Map

Figure 3 - Groundwater Elevation Contour Plot for August 29, 2019

Figures 4a, 4b, 4c, 4d, 4e, 4f, 4g, 4h, 4i – Trend Plots

Figure 5 – DRPH in Groundwater for August 2019

Figure 6 – GRPH in Groundwater for August 2019

List of Tables

Table 1 – Well Construction Details

Table 2 – Depth to Water and Groundwater Elevation

Table 3 – Summary of Groundwater Analytical Results - Fuels and VOCs

Table 4 – Historical Groundwater Analytical Results - PAHs

Table 5 – Summary of Groundwater Analytical Results - Geochemical Parameters

Table 6 – Vertical Groundwater Gradients

Table 7 – Statistical Analysis - Trends of GRPH and DRPH in Groundwater

Table 8 – List of Wells to be Sampled and Associated Laboratory Analyses

Appendices

Appendix A – Groundwater Sample Collection Forms

Appendix B – Laboratory Report and Chain-of-Custody Documentation

Appendix C – Data Quality Review Reports

Appendix D – Water Level and Product Thickness Measurements Form

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 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

MNA monitored natural attenuation

ORPH oil range petroleum hydrocarbons

PAHs polynuclear aromatic hydrocarbons

PID photoionization detector



3.0 FIELD WORK

This section describes the sampling procedures, analytical methods, groundwater conditions, and laboratory results for wells sampled or monitored in August 2019. A data quality review is included.

3.1 Groundwater Sampling Procedures

The remediation system was turned off on August 24, 2019 to allow water levels to equilibrate to non-pumping conditions prior to sampling and water level monitoring. The depth to water and product thickness were measured in all the Site wells on August 29, 2019 (Table 2). HydroCon used this 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 August 26 through August 28 from 27 site 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-1, MW-2, MW-3, MW-4, MW-5, MW-7 and MW22. HydroCon petitioned Ecology to cease sampling in these wells due to improper well construction, no detection of chemicals of concern (COCs) in the well, monitoring well MW-7 being so close to MW-23, and MW22 being located outside of the plume that originates at the Coleman Oil Site. This request was approved by Ecology¹.
- MW15, MW18, and MW19 were not sampled due to insufficient water in the wells.
- MW29 had 0.12 feet of product and was not sampled.

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 or bladder pump equipped with a new length of low-density polyethylene tubing attached to a new length of silicone tubing in accordance with U.S. Environmental Protection Agency (EPA) guidance for low-flow sampling². 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

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

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



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.

It should be noted that HydroCon collected additional groundwater data during this groundwater sampling event to establish a baseline for monitored natural attenuation (MNA) parameters in the site wells including ferrous iron. HydroCon used Hach Kits to measure the ferrous iron content in the wells. This measurement was performed during sample collection and recorded on the Groundwater Sample Collection Forms (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. Some of the MNA parameters (nitrate, sulfate, and alkalinity) were analyzed by Cascade Analytical Laboratory in Yakima due to short holding times.

Purge water generated during the monitoring event was collected in 5 gallon pales and transferred 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
- Alkalinity by Method SM2320B
- Total Manganese by EPA Method 200.8
- Nitrate and Sulfate by EPA Method 300.0
- Dissolved Methane by Method RSK 175



4.0 GROUNDWATER MONITORING RESULTS

4.1 Groundwater Conditions

HydroCon measured water levels at 30 wells on August 29, 2019, the day after the groundwater sampling had been completed at the site. The remediation system was turned off on August 24, 2019 to allow water levels to equilibrate to static (non pumping) conditions. The depth to water measurements for August 29, 2019 and calculated groundwater elevations at each well are summarized on Table 2. It should be noted that monitoring wells MW15 and MW18 were dry, the pump in MW10R prevented collection of the water level in the well, and MW22 was not measured so no groundwater elevations for those wells could be calculated. The remediation system was restarted before noon on August 29 after the groundwater level measurements were completed.

On August 29, 2019 the depth to water at the Site ranged from 7.53 feet bgs (MW-3) to 38.00 feet bgs (MW-5) and groundwater elevations ranged from 617.78 (MW30) to 650.73 (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 MW13R, near the middle of the property, and MW22 was 0.065 ft/ft. The gradient in the southern portion of the Site between MW-2 and MW-5 is much steeper at 0.42 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 6 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 0.086 ft/ft and the vertical gradient for MW-3/MW03S was 0.017 ft/ft for the August 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 three previous groundwater monitoring measurements.

4.2 Groundwater Sampling Results

Laboratory analytical results are reported as micrograms per liter (μ g/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 14 wells including MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW28, BH01R, BH-2, and BH-3. The GRPH concentration ranged up to 3,510 µg/L with the highest concentration at MW14. The MTCA Method A cleanup level for GRPH is 800 µg/L and was exceeded in the samples collected from MW-8, MW09R, MW10R, MW-11, MW13R, and MW14. A significant reduction in the GRPH concentration is seen in the sample collected from MW-13R compared to the previous groundwater monitoring event. This is attributed to the remedial excavation performed in June 2019 near the former Control Valve Building and former Tank Farm B.

Diesel Range Petroleum Hydrocarbons

DRPH was detected above the MRL in 26 wells with concentrations ranging up to 6,730 μ g/L. The highest DRPH concentration was detected at MW17. The only wells that did not have a detection of DRPH above the MRL were MW12 and MW31. The MTCA Method A cleanup level for DRPH of 500 μ g/L was exceeded in the samples collected from MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW23, MW24, MW28, and MW30. It should be noted that 0.12 feet of product was measured in MW29 and no sample was collected from that well.

Oil Range Petroleum Hydrocarbons

ORPH was not detected above the MRL in any of the samples. It should be noted that the MRL in the MW10R sample (1,510 ug/L) exceeds the MTCA Method A cleanup level of 500 μ g/L. Therefore it is unknown if the results comply with the cleanup standard.

Benzene

Benzene was detected above the MRL in 5 wells including MW-8, MW13R, MW14, MW17, and BH01R at concentrations ranging up to 96.4 μ g/L. The highest concentration was seen in MW13R. The MTCA Method A cleanup level for benzene (5 μ g/L) was exceeded in the samples collected from MW13R and MW14.

Toluene

Toluene was not detected above the MRL in any of the samples.

Ethylbenzene

Ethylbenzene was detected in 4 wells above the MRL including MW-8, MW10R, MW13R, and MW14 at concentrations up to $8.52 \mu g/L$. None of the concentrations exceed the MTCA Method A cleanup level of $700 \mu g/L$.

Total Xylenes

Total xylenes were detected above the MRL in the samples collected from 3 wells including MW-8, MW10R, and MW13R at a concentration up to 28.5 μ g/L. None of the concentrations exceed the MTCA Method A cleanup level of 1,000 μ g/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 Monitored Natural Attenuation Parameters

The August 2019 groundwater sampling event included analysis of geochemical parameters used in monitored natural attenuation (MNA) at petroleum contaminated sites. This sampling event was done to establish a baseline from which to assess if natural attenuation is occurring at the site. The use of MNA will be considered as a method to use to monitor post-remediation groundwater quality at the site. In general, a plume of petroleum hydrocarbons that is undergoing natural attenuation should have decreasing amounts of dissolved oxygen, nitrate, sulfate, and redox potential and an increase in ferrous iron, methane, manganese, and alkalinity³.

Laboratory analytical results are summarized on Table 5 and the laboratory reports are included as Appendix B. A summary of each MNA parameter is provided below.

4.3.1 Field Parameters

Dissolved Oxygen – The dissolved oxygen content in the samples collected from the site ranged from 0.18 to 2.77 mg/L. These low values indicate that groundwater at the site has a low oxygen content⁴.

Redox Potential – Redox potential is a measure with which a molecule will accept electrons. It is measured in millivolts (mV). The more positive the redox potential, the more readily a molecule can be reduced. The redox potential in the samples collected from the site ranged from -196 mV to 128.4 mV. A total of 19 samples had a negative reading, 6 had a positive reading, and 1 had a reading of 0 mV.

pH – pH is a measure of the acidity or alkalinity of a solution. The pH scale ranges from 0 to 14. A pH less than 7 is considered to be acidic. A pH greater than 7 is considered to be basic or alkaline. The pH in the samples collected at the site ranged from 5.97 to 7.43.

4.3.2 Chemical Analysis

Nitrate – Nitrate was detected above the MRL in only three wells (MW01S, MW16, and MW32) ranging from 0.35 to 2.0 mg/L. Nitrate concentrations below background in areas with dissolved contamination provide evidence for biodegradation⁴.

Sulfate – Sulfate was detected above the MRL in each well except MW-8, MW-11, and MW-4 at concentrations ranging from 0.18 to 78.4 mg/L. Sulfate concentrations less than background in areas with dissolved contamination provide evidence for biodegradation⁴.

Manganese – Manganese was detected in each well ranging from 52.8 to an estimated 10,700 mg/L.

Alkalinity – Alkalinity ranged from 148 to 619 mg/L in the samples collected from the site.

Methane – Methane was detected in the samples collected from every well except MW-16. Detections ranged from 3.1 μ g/L to 8,100 μ g/L.

³ User's Manual: Natural Attenuation Analysis Tool Package for Petroleum Contaminated Groundwater, Toxics Cleanup Program Publication No. 05-09-091. July Ecology, July 2005.

⁴ User's Manual: Natural Attenuation Analysis Tool Package for Petroleum Contaminated Groundwater, Toxics Cleanup Program Publication No. 05-09-091A. July Ecology, July 2005.



Ferrous Iron - Ferrous iron ranged from 0.0 to 6.5 mg/L in the samples collected from the site.

While future testing of these parameters is needed to adequately evaluate the presence and progress of natural attenuation, there are preliminary indications that biodegradation is active at the Site.

4.4 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 August 2019 groundwater monitoring event.

5.1 Discussion of Laboratory Results

Results of the August 2019 groundwater monitoring event indicated that 17 of the 27 wells sampled at the Site (MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW23, MW24, MW28, MW30, BH01R, BH-2, and BH-3) have one or more COC above their respective CUL. This is a decrease of 2 wells compared to the results of the March 2019 groundwater monitoring results. However, it should be noted that monitoring wells MW15, MW18, and MW19 were dry or had an insufficient amount of water to sample and MW29 had product so no samples were collected to assess water quality in these wells. Trend plots were not prepared for the wells not sampled.

5.2 Trends in GRPH and DRPH Concentrations in Groundwater

HydroCon has prepared trend plots of GRPH and DRPH the 27 wells sampled (Figures 4a, 4b, 4c, 4d, 4e, 4f, 4g, and 4h). A discussion of groundwater trends of each these wells are provided below.

BH-1/BH01R – DRPH: A significant increase began in December 2018 through March 2019 followed by significant decrease in August 2019. GRPH: Minor fluctuation in this well with no apparent trend. Pumping began in this well in May 2018.

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

BH-3 – DRPH: The concentration decreased in this well through August 2018. Thereafter, an increasing trend was observed through March 2019 followed by a downward trend over the last two sampling events. GRPH: The concentration decreased significantly from its high in April 2017 to 9/2017. A nearly flat trend has been observed since.

RW-1 – DRPH: A general decreasing trend has occurred from its high in April 2017 with an upward fluctuation in August 2018 (all below the CUL). GRPH: There's been no detection above the MRL since sampling began.

MW01S – DRPH & GRPH: The concentrations of DRPH & GRPH have fluctuated between non-detect to low concentrations below the CUL since sampling began.

MW03S – Concentrations of DRPH & GRPH have fluctuated between non-detect to low concentrations below their respective CUL since sampling began

MW-6 - DRPH: The concentrations fluctuate with an increasing trend since March 2019. GRPH: A decreasing trend with concentrations below the CUL.

MW-8 – DRHP: A decreasing trend from September 2017 through November 2018 with a spike over 2,000 μ g/L in March 2019 then down to less than 1,500 μ g/L in August 2019. GRPH: trending down to a concentration (899 μ g/L) slightly above the CUL in August 2019.

MW-9/MW09R –DRPH: The concentration has fluctuated with an increasing trend since August 2018. GRPH fluctuated in 2018 but has stabilized around 1,000 μg/L, slightly above the CUL. Pumping



began in this well in May 2018.

MW-10/MW10R – DRPH: The concentration fluctuated in this well until pumping began in May 2018. A relatively flat with slightly increasing trend has been observed since at concentrations above the CUL. GRPH: The concentration has been relatively flat in this well at concentrations above the CUL. Pumping began in this well in May 2018.

MW-11 –DRPH: The concentration decreased in this well from September 2017 with a slight increasing trend after August 2018. GRPH fluctuates within a narrow range of concentrations that exceed the CUL.

MW12 – DRPH: The concentrations have fluctuated between non-detect to low concentrations below the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW13/MW13R – DRPH: A slightly increasing trend in DRPH concentrations was observed in this well through March 2019 and then a decreasing trend afterwards. GRPH: High concentrations have been observed in this well since sampling began with a significant decrease after the remedial excavation.

MW14 – DRPH: A slight increasing trend has been seen in this well with concentrations above the CUL. GRPH: Fluctuating high concentrations above the CUL are seen in this well.

MW16 – DRPH: Low concentrations below the CUL fluctuate in this well. GRPH: There's been no detection above the MRL since sampling began.

MW17 –DRPH: An increasing trend above the CUL has been seen since August 2018. GRPH: A decreasing trend has been observed with the August 2019 concentration below the CUL.

MW20 – DRPH and GRPH: The concentrations fluctuate in this well with a similar pattern. The concentration of DRPH is currently above the CUL. The concentration of GRPH is currently below the CUL.

MW21 – DRPH and GRPH: The concentrations fluctuate in this well with a similar pattern. The concentration of DRPH is currently above the CUL. The concentration of GRPH is currently below the CUL.

MW23 – DRPH fluctuates within a narrow range. The concentration is currently slightly above the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW24 – DRPH: A decreasing trend since a high was recorded in November 2018. The concentration remains above the CUL. GRPH: The concentration has fluctuated between non-detect to low concentrations below the CUL since sampling began.

MW25 – DRPH: Low concentrations below the CUL have trended higher with a slight decrease in August 2019. GRPH: There's been no detection above the MRL since sampling began.

MW26 – DRPH: Low concentrations have fluctuated in this well with the current concentration below the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW27 – DRPH: An increasing trend of low concentrations below the CUL has been observed since November 2018. GRPH: There's been no detection above the MRL since sampling began.

MW28 – DRPH: An increasing trend in concentrations until March 2018 followed by a decreasing trend. The current concentration is above the CUL. GRPH: Low concentrations below the CUL

Groundwater Monitoring Report – August 2019 Coleman Oil - Wenatchee, Washington October 21, 2019



have remained relatively flat since November 2018.

MW30 – DRPH: An increasing trend was observed until March 2019 followed by a slight decrease. The current concentration is slightly above the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW31 – DRPH and GRPH have not been detected above the MRL since sampling began.

MW32 –DRPH: Low concentrations below the CUL have increased since November 2018. GRPH has decreased to concentrations below the MRL since August 2018.

Trends in groundwater sampling at the Site wells can also be summarized as shown on Table 7. The table lists all 41 Site wells with the number of CUL exceedances for GPPH and DRPH in the last 4 sampling events. For wells with CUL exceedances in the last 4 sampling events, the percent change in concentration since the last quarter is shown. Wells that were not sampled in this last sampling event as indicated as no sample (NS).

For DRPH, 11 of the wells were not sampled, 18 had at least one CUL exceedance in the last 4 quarters, 7 of which had an increase in concentration since the last sampling event and 11 had a decrease. The increase in concentration ranged from 3 to 98 percent (MW19) and decrease in concentration ranged from 10 to 612 percent (BR01R). The average change in DRPH concentration in the last two sampling events for these wells was a decrease of 66 percent.

For GRPH, 11 of the wells were not sampled, 10 had at least one CUL exceedance in the last 4 sampling events, 4 of which had an increase in concentration since the last sampling event and 6 had a decrease. The increase in concentration ranged from 7 to 307 percent (MW20) and decrease in concentration ranged from 15 to 2,850 percent (MW13/MW13R). The average change in GRPH concentration in the last two sampling events for these wells was a decrease of 275 percent.

5.3 Extent of Groundwater Contamination

The August 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 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 location of this area relative to areas of impacted groundwater.

5.3.1 Diesel Range Petroleum Hydrocarbons

The extent of DRPH contamination in groundwater is illustrated on Figure 5. A plume of DRPH impacted groundwater with DRPH levels greater than the 500 μ g/L CUL is present at the site from south of MW13R and extends northeast slightly beyond monitoring well MW21. There are four areas within the plume that have had consistent elevated DRPH concentrations above 2,000 μ g/L:

- The area near monitoring wells MW13R and MW14. The highest concentration of DRPH (2,180 μg/L) occurred in MW13R which is located within the footprint of the former Tank Farm B and the former Control Valve Building.
- The area encompassing monitoring wells MW17, MW09R to BH-2. The concentration of



DRPH ranges from 5,880 to 6,730 μ g/L. Each of these three wells is currently being used to extract product and groundwater from the Site.

- The area of monitoring wells MW19, BH01R, MW28 and MW29. The highest DRPH concentration (4,300 μg/L) occurred in MW19 and monitoring well MW29 had 0.12 feet of LNAPL during the August 2019 groundwater monitoring.
- The area near well MW10R. MW10R had a DRPH concentration of 3,620 μg/L. Monitoring wells MW21 and MW24 have DRPH levels above the CUL. Wells MW10R and MW24 are being used to extract product and groundwater from the Site.

Groundwater with DRPH levels greater than the 500 μ g/L CUL was also present in August 2019 at monitoring wells MW-6, MW-8 and MW-11 and BH-3.

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, much of the eastern part 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 RW-1, except BH-3. This latter area is near the observed seep areas and reinforces the role of preferential pathways in the distribution of subsurface contaminants.

5.3.2 Gasoline Range Petroleum Hydrocarbons

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 from south of MW13R and extends northwest towards monitoring well MW21. There are six localized areas within the plume that have elevated GRPH concentrations above the MTCA Method A CUL of 800 µg/L:

- The area near monitoring wells MW13R and MW14. The highest concentration of GRPH (3,510 μg/L) is present in MW14 which is located immediately downgradient of the footprint of former Tank Farm B and former Control Valve Building. A significant reduction in GRPH concentration in this area of the site is present compared to the previous quarter and is attributed to the remedial excavation that occurred in June 2019.
- The area near monitoring wells MW-11 and MW-8 have GRPH ranging from 899 to 1,230 μg/L.
 This area is located within the 2017 remedial excavation area where sump #5 was located.
 Sump #5 had one of the highest amounts of recovered product at the Site.
- The area near monitoring wells MW17 and MW09R have GRPH concentrations ranging from 655 to 1,080 μg/L. Monitoring well MW09R is currently being used to extract product and contaminated groundwater from the Site.
- The area near BH01R has slightly elevated GRPH concentrations (518 ug/L). Although no sample was collected from MW29 due to the presence of LNAPL in the well, it is presumed that elevated GRPH concentration is present at this location. Both of these wells are used to extract product and contaminated groundwater from the Site.
- The area near monitoring well MW10R has an elevated GRPH concentration (1,270 µg/L). This well is used to extract product and contaminated groundwater from the Site. Well MW21 farther to the north has an elevated GRPH concentration of 453 µg/L that does not exceed the CUL.



 Monitoring well BH-3 has a GRPH concentration (816 μg/L) that slightly exceeds the MTCA Method A cleanup level. This well is located upgradient of the seeps. This reinforces the role of preferential pathways in the distribution of subsurface contaminants, as stated above.

The overall distribution of GRPH in groundwater is similar to the DRPH distribution and areas with concentrations less than 800 μ g/L (Method A cleanup level) are very similar to areas below the DRPH cleanup level.



6.0 FUTURE MONITORING SCHEDULE

6.1 Daily Columbia River Level and Water Level Measurements

Environmental Engineering & Consulting, Inc. (EEC) manages the containment booms on the Columbia River and recovery of groundwater and product from the current nine recovery wells at the Site, treatment of the recovered groundwater and discharge of the treated water to the City of Wenatchee sewer. EEC's daily tasks includes monitoring the water level at a surveyed reference location along the Columbia River and water and product levels in the nine recovery wells at the Site (MW09R, MW10R, BH01R, MW17, MW24, MW28, MW29, MW30, and MW32) using a clean electronic oil/water interface probe.

These measurements are recorded in spreadsheet files and are provided to Ecology, Coleman Oil, and HydroCon monthly or every 2 weeks (bi-weekly). 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 bi-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). 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 Groundwater Sampling

The next groundwater monitoring event is tentatively planned for March 2020. A list of wells that will be sampled and associated laboratory analysis is provided on Table 8.

As discussed above, Ecology agreed with HydroCon that collection of groundwater samples from monitoring wells MW-1 through MW-5, MW-7, and MW22 was not necessary during the August 2019 sampling event. These wells will not be included in future groundwater monitoring events unless requested by Ecology.

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 three groundwater monitoring events. This information is provided in Section 4.1 of this report. Unless requested by Ecology, HydroCon will no longer include vertical gradient data from these wells in future monitoring reports.



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.

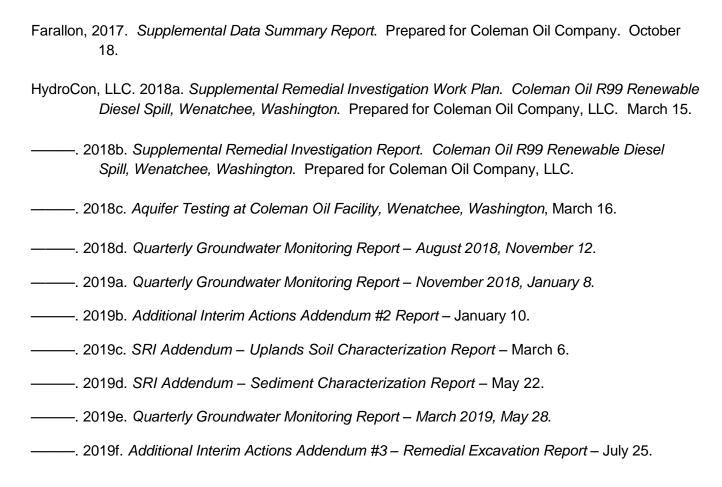
Findings and conclusions resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, 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



FIGURES

TABLES

APPENDIX A GROUNDWATER SAMPLE COLLECTION FORMS

APPENDIX B

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

APPENDIX C DATA QUALITY REVIEW REPORT

APPENDIX D

WATER LEVEL AND PRODUCT THICKNESS MEASUREMENTS FORM



EXECUTIVE SUMMARY

This Groundwater Monitoring Report provides the scope and findings of groundwater monitoring that was performed in August 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.

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

- Turn off the pumps on August 24, 2019 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 on August 29, 2019 one day after groundwater sampling procedures were completed at the site.
- Collect groundwater samples for chemical analysis at selected wells listed on Table 6.
- Monitored natural attenuation parameters were included in this sampling event at all wells sampled to establish a baseline.
- 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, trends in groundwater chemistry, and the extent of gasoline range petroleum hydrocarbons (GRPH) and diesel range petroleum hydrocarbons (DRPH) contamination in groundwater at the site.
- Update the tentative schedule of future groundwater monitoring events.



1.0 INTRODUCTION

HydroCon Environmental, LLC (HydroCon), has prepared this 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 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, 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 was operated as a bulk fuel facility from 1921 to 2017. Coleman Oil operated the bulk fuel facility from Coleman Services IV, LLC's purchase of the Property in January 2007 until its decommissioning in 2017.

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, now reduced to daily observations but weekly reporting.



- 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 light nonaqueous-phase liquid (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 release of diesel and gasoline from a 55-gallon drum onto the ground surface occurred at the Site 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 GRPH and DRPH in the excavation 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 for recovering product and treating groundwater 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); the MW10R zone (MW10R, MW24, and MW28); and the BH-1 zone (BH-1, MW29, and MW30) with all 9 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 product had been recovered (HydroCon 2018b). The majority of the product is believed to be R99 from the 2017 release. Other fuel products have been identified by forensic analysis to be present in the subsurface including gasoline, diesel fuel, and lubricating oil so it is possible that some of the recovered product is something other than R99.

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-east 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, cobbles and boulders. 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 (near the river bank) 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. It should be noted that the pumps only operate when the water level in the respective well is at the level of the pump intake. 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 of free product 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 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 fourth 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 for wells sampled or monitored in August 2019. A data quality review is included.

3.1 Groundwater Sampling Procedures

The remediation system was turned off on August 24, 2019 to allow water levels to equilibrate to non-pumping conditions prior to sampling and water level monitoring. The depth to water and product thickness were measured in all the Site wells on August 29, 2019 (Table 2). HydroCon used this 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 August 26 through August 28 from 27 site 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-1, MW-2, MW-3, MW-4, MW-5, MW-7
 and MW22. HydroCon petitioned Ecology to cease sampling in these wells due to improper well
 construction, no detection of chemicals of concern (COCs) in the well, monitoring well MW-7
 being so close to MW-23, and MW22 being located outside of the plume that originates at the
 Coleman Oil Site. This request was approved by Ecology¹.
- MW15, MW18, and MW19 were not sampled due to insufficient water in the wells.
- MW29 had 0.12 feet of product and was not sampled.

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 or bladder pump equipped with a new length of low-density polyethylene tubing attached to a new length of silicone tubing in accordance with U.S. Environmental Protection Agency (EPA) guidance for low-flow sampling². 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

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

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



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.

It should be noted that HydroCon collected additional groundwater data during this groundwater sampling event to establish a baseline for monitored natural attenuation (MNA) parameters in the site wells including ferrous iron. HydroCon used Hach Kits to measure the ferrous iron content in the wells. This measurement was performed during sample collection and recorded on the Groundwater Sample Collection Forms (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. Some of the MNA parameters (nitrate, sulfate, and alkalinity) were analyzed by Cascade Analytical Laboratory in Yakima due to short holding times.

Purge water generated during the monitoring event was collected in 5 gallon pales and transferred 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
- Alkalinity by Method SM2320B
- Total Manganese by EPA Method 200.8
- Nitrate and Sulfate by EPA Method 300.0
- Dissolved Methane by Method RSK 175



4.0 GROUNDWATER MONITORING RESULTS

4.1 Groundwater Conditions

HydroCon measured water levels at 30 wells on August 29, 2019, the day after the groundwater sampling had been completed at the site. The remediation system was turned off on August 24, 2019 to allow water levels to equilibrate to static (non pumping) conditions. The depth to water measurements for August 29, 2019 and calculated groundwater elevations at each well are summarized on Table 2. It should be noted that monitoring wells MW15 and MW18 were dry, the pump in MW10R prevented collection of the water level in the well, and MW22 was not measured so no groundwater elevations for those wells could be calculated. The remediation system was restarted before noon on August 29 after the groundwater level measurements were completed.

On August 29, 2019 the depth to water at the Site ranged from 7.53 feet bgs (MW-3) to 38.00 feet bgs (MW-5) and groundwater elevations ranged from 617.78 (MW30) to 650.73 (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 MW13R, near the middle of the property, and MW22 was 0.065 ft/ft. The gradient in the southern portion of the Site between MW-2 and MW-5 is much steeper at 0.42 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 6 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 0.086 ft/ft and the vertical gradient for MW-3/MW03S was 0.017 ft/ft for the August 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 three previous groundwater monitoring measurements.

4.2 Groundwater Sampling Results

Laboratory analytical results are reported as micrograms per liter (μ g/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 14 wells including MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW28, BH01R, BH-2, and BH-3. The GRPH concentration ranged up to 3,510 µg/L with the highest concentration at MW14. The MTCA Method A cleanup level for GRPH is 800 µg/L and was exceeded in the samples collected from MW-8, MW09R, MW10R, MW-11, MW13R, and MW14. A significant reduction in the GRPH concentration is seen in the sample collected from MW-13R compared to the previous groundwater monitoring event. This is attributed to the remedial excavation performed in June 2019 near the former Control Valve Building and former Tank Farm B.

Diesel Range Petroleum Hydrocarbons

DRPH was detected above the MRL in 26 wells with concentrations ranging up to 6,730 μ g/L. The highest DRPH concentration was detected at MW17. The only wells that did not have a detection of DRPH above the MRL were MW12 and MW31. The MTCA Method A cleanup level for DRPH of 500 μ g/L was exceeded in the samples collected from MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW23, MW24, MW28, and MW30. It should be noted that 0.12 feet of product was measured in MW29 and no sample was collected from that well.

Oil Range Petroleum Hydrocarbons

ORPH was not detected above the MRL in any of the samples. It should be noted that the MRL in the MW10R sample (1,510 ug/L) exceeds the MTCA Method A cleanup level of 500 μ g/L. Therefore it is unknown if the results comply with the cleanup standard.

Benzene

Benzene was detected above the MRL in 5 wells including MW-8, MW13R, MW14, MW17, and BH01R at concentrations ranging up to 96.4 μ g/L. The highest concentration was seen in MW13R. The MTCA Method A cleanup level for benzene (5 μ g/L) was exceeded in the samples collected from MW13R and MW14.

Toluene

Toluene was not detected above the MRL in any of the samples.

Ethylbenzene

Ethylbenzene was detected in 4 wells above the MRL including MW-8, MW10R, MW13R, and MW14 at concentrations up to $8.52~\mu g/L$. None of the concentrations exceed the MTCA Method A cleanup level of $700~\mu g/L$.

Total Xylenes

Total xylenes were detected above the MRL in the samples collected from 3 wells including MW-8, MW10R, and MW13R at a concentration up to $28.5 \mu g/L$. None of the concentrations exceed the MTCA Method A cleanup level of $1,000 \mu g/L$.

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 Monitored Natural Attenuation Parameters

The August 2019 groundwater sampling event included analysis of geochemical parameters used in monitored natural attenuation (MNA) at petroleum contaminated sites. This sampling event was done to establish a baseline from which to assess if natural attenuation is occurring at the site. The use of MNA will be considered as a method to use to monitor post-remediation groundwater quality at the site. In general, a plume of petroleum hydrocarbons that is undergoing natural attenuation should have decreasing amounts of dissolved oxygen, nitrate, sulfate, and redox potential and an increase in ferrous iron, methane, manganese, and alkalinity³.

Laboratory analytical results are summarized on Table 5 and the laboratory reports are included as Appendix B. A summary of each MNA parameter is provided below.

4.3.1 Field Parameters

Dissolved Oxygen – The dissolved oxygen content in the samples collected from the site ranged from 0.18 to 2.77 mg/L. These low values indicate that groundwater at the site has a low oxygen content⁴.

Redox Potential – Redox potential is a measure with which a molecule will accept electrons. It is measured in millivolts (mV). The more positive the redox potential, the more readily a molecule can be reduced. The redox potential in the samples collected from the site ranged from -196 mV to 128.4 mV. A total of 19 samples had a negative reading, 6 had a positive reading, and 1 had a reading of 0 mV.

pH – pH is a measure of the acidity or alkalinity of a solution. The pH scale ranges from 0 to 14. A pH less than 7 is considered to be acidic. A pH greater than 7 is considered to be basic or alkaline. The pH in the samples collected at the site ranged from 5.97 to 7.43.

4.3.2 Chemical Analysis

Nitrate – Nitrate was detected above the MRL in only three wells (MW01S, MW16, and MW32) ranging from 0.35 to 2.0 mg/L. Nitrate concentrations below background in areas with dissolved contamination provide evidence for biodegradation⁴.

Sulfate – Sulfate was detected above the MRL in each well except MW-8, MW-11, and MW-4 at concentrations ranging from 0.18 to 78.4 mg/L. Sulfate concentrations less than background in areas with dissolved contamination provide evidence for biodegradation⁴.

Manganese – Manganese was detected in each well ranging from 52.8 to an estimated 10,700 mg/L.

Alkalinity – Alkalinity ranged from 148 to 619 mg/L in the samples collected from the site.

Methane – Methane was detected in the samples collected from every well except MW-16. Detections ranged from 3.1 μ g/L to 8,100 μ g/L.

³ User's Manual: Natural Attenuation Analysis Tool Package for Petroleum Contaminated Groundwater, Toxics Cleanup Program Publication No. 05-09-091. July Ecology, July 2005.

⁴ User's Manual: Natural Attenuation Analysis Tool Package for Petroleum Contaminated Groundwater, Toxics Cleanup Program Publication No. 05-09-091A. July Ecology, July 2005.



Ferrous Iron – Ferrous iron ranged from 0.0 to 6.5 mg/L in the samples collected from the site.

While future testing of these parameters is needed to adequately evaluate the presence and progress of natural attenuation, there are preliminary indications that biodegradation is active at the Site.

4.4 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 August 2019 groundwater monitoring event.

5.1 Discussion of Laboratory Results

Results of the August 2019 groundwater monitoring event indicated that 17 of the 27 wells sampled at the Site (MW-6, MW-8, MW09R, MW10R, MW-11, MW13R, MW14, MW17, MW20, MW21, MW23, MW24, MW28, MW30, BH01R, BH-2, and BH-3) have one or more COC above their respective CUL. This is a decrease of 2 wells compared to the results of the March 2019 groundwater monitoring results. However, it should be noted that monitoring wells MW15, MW18, and MW19 were dry or had an insufficient amount of water to sample and MW29 had product so no samples were collected to assess water quality in these wells. Trend plots were not prepared for the wells not sampled.

5.2 Trends in GRPH and DRPH Concentrations in Groundwater

HydroCon has prepared trend plots of GRPH and DRPH the 27 wells sampled (Figures 4a, 4b, 4c, 4d, 4e, 4f, 4g, and 4h). A discussion of groundwater trends of each these wells are provided below.

BH-1/BH01R – DRPH: A significant increase began in December 2018 through March 2019 followed by significant decrease in August 2019. GRPH: Minor fluctuation in this well with no apparent trend. Pumping began in this well in May 2018.

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

BH-3 – DRPH: The concentration decreased in this well through August 2018. Thereafter, an increasing trend was observed through March 2019 followed by a downward trend over the last two sampling events. GRPH: The concentration decreased significantly from its high in April 2017 to 9/2017. A nearly flat trend has been observed since.

RW-1 – DRPH: A general decreasing trend has occurred from its high in April 2017 with an upward fluctuation in August 2018 (all below the CUL). GRPH: There's been no detection above the MRL since sampling began.

MW01S – DRPH & GRPH: The concentrations of DRPH & GRPH have fluctuated between non-detect to low concentrations below the CUL since sampling began.

MW03S – Concentrations of DRPH & GRPH have fluctuated between non-detect to low concentrations below their respective CUL since sampling began

MW-6 - DRPH: The concentrations fluctuate with an increasing trend since March 2019. GRPH: A decreasing trend with concentrations below the CUL.

MW-8 – DRHP: A decreasing trend from September 2017 through November 2018 with a spike over 2,000 μ g/L in March 2019 then down to less than 1,500 μ g/L in August 2019. GRPH: trending down to a concentration (899 μ g/L) slightly above the CUL in August 2019.

MW-9/MW09R –DRPH: The concentration has fluctuated with an increasing trend since August 2018. GRPH fluctuated in 2018 but has stabilized around 1,000 μg/L, slightly above the CUL. Pumping



began in this well in May 2018.

MW-10/MW10R – DRPH: The concentration fluctuated in this well until pumping began in May 2018. A relatively flat with slightly increasing trend has been observed since at concentrations above the CUL. GRPH: The concentration has been relatively flat in this well at concentrations above the CUL. Pumping began in this well in May 2018.

MW-11 –DRPH: The concentration decreased in this well from September 2017 with a slight increasing trend after August 2018. GRPH fluctuates within a narrow range of concentrations that exceed the CUL.

MW12 – DRPH: The concentrations have fluctuated between non-detect to low concentrations below the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW13/MW13R – DRPH: A slightly increasing trend in DRPH concentrations was observed in this well through March 2019 and then a decreasing trend afterwards. GRPH: High concentrations have been observed in this well since sampling began with a significant decrease after the remedial excavation.

MW14 – DRPH: A slight increasing trend has been seen in this well with concentrations above the CUL. GRPH: Fluctuating high concentrations above the CUL are seen in this well.

MW16 – DRPH: Low concentrations below the CUL fluctuate in this well. GRPH: There's been no detection above the MRL since sampling began.

MW17 –DRPH: An increasing trend above the CUL has been seen since August 2018. GRPH: A decreasing trend has been observed with the August 2019 concentration below the CUL.

MW20 – DRPH and GRPH: The concentrations fluctuate in this well with a similar pattern. The concentration of DRPH is currently above the CUL. The concentration of GRPH is currently below the CUL.

MW21 – DRPH and GRPH: The concentrations fluctuate in this well with a similar pattern. The concentration of DRPH is currently above the CUL. The concentration of GRPH is currently below the CUL.

MW23 – DRPH fluctuates within a narrow range. The concentration is currently slightly above the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW24 – DRPH: A decreasing trend since a high was recorded in November 2018. The concentration remains above the CUL. GRPH: The concentration has fluctuated between non-detect to low concentrations below the CUL since sampling began.

MW25 – DRPH: Low concentrations below the CUL have trended higher with a slight decrease in August 2019. GRPH: There's been no detection above the MRL since sampling began.

MW26 – DRPH: Low concentrations have fluctuated in this well with the current concentration below the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW27 – DRPH: An increasing trend of low concentrations below the CUL has been observed since November 2018. GRPH: There's been no detection above the MRL since sampling began.

MW28 – DRPH: An increasing trend in concentrations until March 2018 followed by a decreasing trend. The current concentration is above the CUL. GRPH: Low concentrations below the CUL

Groundwater Monitoring Report – August 2019 Coleman Oil - Wenatchee, Washington October 21, 2019



have remained relatively flat since November 2018.

MW30 – DRPH: An increasing trend was observed until March 2019 followed by a slight decrease. The current concentration is slightly above the CUL. GRPH: There's been no detection above the MRL since sampling began.

MW31 – DRPH and GRPH have not been detected above the MRL since sampling began.

MW32 –DRPH: Low concentrations below the CUL have increased since November 2018. GRPH has decreased to concentrations below the MRL since August 2018.

Trends in groundwater sampling at the Site wells can also be summarized as shown on Table 7. The table lists all 41 Site wells with the number of CUL exceedances for GPPH and DRPH in the last 4 sampling events. For wells with CUL exceedances in the last 4 sampling events, the percent change in concentration since the last quarter is shown. Wells that were not sampled in this last sampling event as indicated as no sample (NS).

For DRPH, 11 of the wells were not sampled, 18 had at least one CUL exceedance in the last 4 quarters, 7 of which had an increase in concentration since the last sampling event and 11 had a decrease. The increase in concentration ranged from 3 to 98 percent (MW19) and decrease in concentration ranged from 10 to 612 percent (BR01R). The average change in DRPH concentration in the last two sampling events for these wells was a decrease of 66 percent.

For GRPH, 11 of the wells were not sampled, 10 had at least one CUL exceedance in the last 4 sampling events, 4 of which had an increase in concentration since the last sampling event and 6 had a decrease. The increase in concentration ranged from 7 to 307 percent (MW20) and decrease in concentration ranged from 15 to 2,850 percent (MW13/MW13R). The average change in GRPH concentration in the last two sampling events for these wells was a decrease of 275 percent.

5.3 Extent of Groundwater Contamination

The August 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 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 location of this area relative to areas of impacted groundwater.

5.3.1 Diesel Range Petroleum Hydrocarbons

The extent of DRPH contamination in groundwater is illustrated on Figure 5. A plume of DRPH impacted groundwater with DRPH levels greater than the 500 μ g/L CUL is present at the site from south of MW13R and extends northeast slightly beyond monitoring well MW21. There are four areas within the plume that have had consistent elevated DRPH concentrations above 2,000 μ g/L:

- The area near monitoring wells MW13R and MW14. The highest concentration of DRPH (2,180 μg/L) occurred in MW13R which is located within the footprint of the former Tank Farm B and the former Control Valve Building.
- The area encompassing monitoring wells MW17, MW09R to BH-2. The concentration of



DRPH ranges from 5,880 to 6,730 μ g/L. Each of these three wells is currently being used to extract product and groundwater from the Site.

- The area of monitoring wells MW19, BH01R, MW28 and MW29. The highest DRPH concentration (4,300 μg/L) occurred in MW19 and monitoring well MW29 had 0.12 feet of LNAPL during the August 2019 groundwater monitoring.
- The area near well MW10R. MW10R had a DRPH concentration of 3,620 μ g/L. Monitoring wells MW21 and MW24 have DRPH levels above the CUL. Wells MW10R and MW24 are being used to extract product and groundwater from the Site.

Groundwater with DRPH levels greater than the 500 μ g/L CUL was also present in August 2019 at monitoring wells MW-6, MW-8 and MW-11 and BH-3.

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, much of the eastern part 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 RW-1, except BH-3. This latter area is near the observed seep areas and reinforces the role of preferential pathways in the distribution of subsurface contaminants.

5.3.2 Gasoline Range Petroleum Hydrocarbons

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 from south of MW13R and extends northwest towards monitoring well MW21. There are six localized areas within the plume that have elevated GRPH concentrations above the MTCA Method A CUL of 800 µg/L:

- The area near monitoring wells MW13R and MW14. The highest concentration of GRPH (3,510 μg/L) is present in MW14 which is located immediately downgradient of the footprint of former Tank Farm B and former Control Valve Building. A significant reduction in GRPH concentration in this area of the site is present compared to the previous quarter and is attributed to the remedial excavation that occurred in June 2019.
- The area near monitoring wells MW-11 and MW-8 have GRPH ranging from 899 to 1,230 μg/L.
 This area is located within the 2017 remedial excavation area where sump #5 was located.
 Sump #5 had one of the highest amounts of recovered product at the Site.
- The area near monitoring wells MW17 and MW09R have GRPH concentrations ranging from 655 to 1,080 μg/L. Monitoring well MW09R is currently being used to extract product and contaminated groundwater from the Site.
- The area near BH01R has slightly elevated GRPH concentrations (518 ug/L). Although no sample was collected from MW29 due to the presence of LNAPL in the well, it is presumed that elevated GRPH concentration is present at this location. Both of these wells are used to extract product and contaminated groundwater from the Site.
- The area near monitoring well MW10R has an elevated GRPH concentration (1,270 µg/L). This well is used to extract product and contaminated groundwater from the Site. Well MW21 farther to the north has an elevated GRPH concentration of 453 µg/L that does not exceed the CUL.



 Monitoring well BH-3 has a GRPH concentration (816 μg/L) that slightly exceeds the MTCA Method A cleanup level. This well is located upgradient of the seeps. This reinforces the role of preferential pathways in the distribution of subsurface contaminants, as stated above.

The overall distribution of GRPH in groundwater is similar to the DRPH distribution and areas with concentrations less than 800 μ g/L (Method A cleanup level) are very similar to areas below the DRPH cleanup level.



6.0 FUTURE MONITORING SCHEDULE

6.1 Daily Columbia River Level and Water Level Measurements

Environmental Engineering & Consulting, Inc. (EEC) manages the containment booms on the Columbia River and recovery of groundwater and product from the current nine recovery wells at the Site, treatment of the recovered groundwater and discharge of the treated water to the City of Wenatchee sewer. EEC's daily tasks includes monitoring the water level at a surveyed reference location along the Columbia River and water and product levels in the nine recovery wells at the Site (MW09R, MW10R, BH01R, MW17, MW24, MW28, MW29, MW30, and MW32) using a clean electronic oil/water interface probe.

These measurements are recorded in spreadsheet files and are provided to Ecology, Coleman Oil, and HydroCon monthly or every 2 weeks (bi-weekly). 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 bi-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). 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 Groundwater Sampling

The next groundwater monitoring event is tentatively planned for March 2020. A list of wells that will be sampled and associated laboratory analysis is provided on Table 8.

As discussed above, Ecology agreed with HydroCon that collection of groundwater samples from monitoring wells MW-1 through MW-5, MW-7, and MW22 was not necessary during the August 2019 sampling event. These wells will not be included in future groundwater monitoring events unless requested by Ecology.

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 three groundwater monitoring events. This information is provided in Section 4.1 of this report. Unless requested by Ecology, HydroCon will no longer include vertical gradient data from these wells in future monitoring reports.



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.

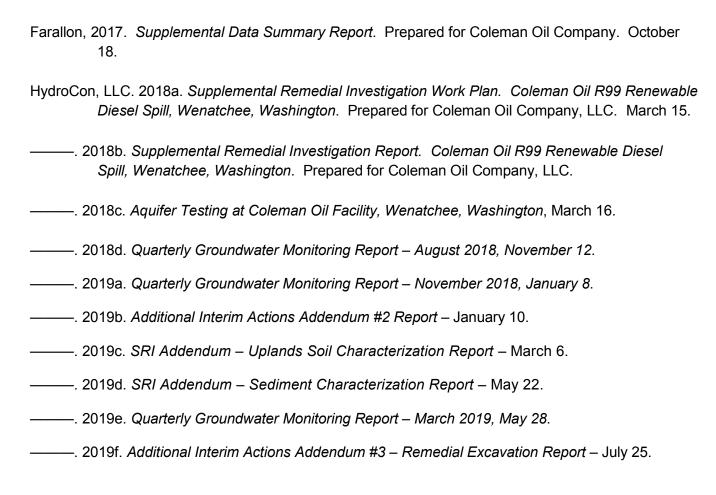
Findings and conclusions resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, 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



FIGURES

TABLES

APPENDIX A GROUNDWATER SAMPLE COLLECTION FORMS

APPENDIX B

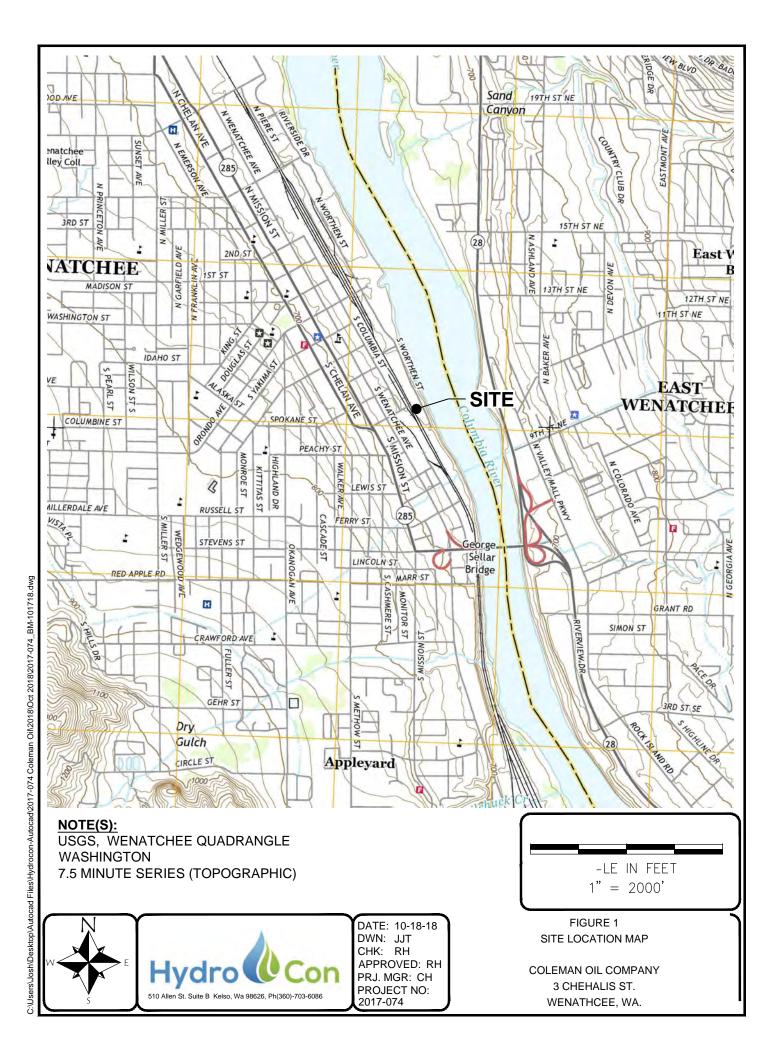
LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

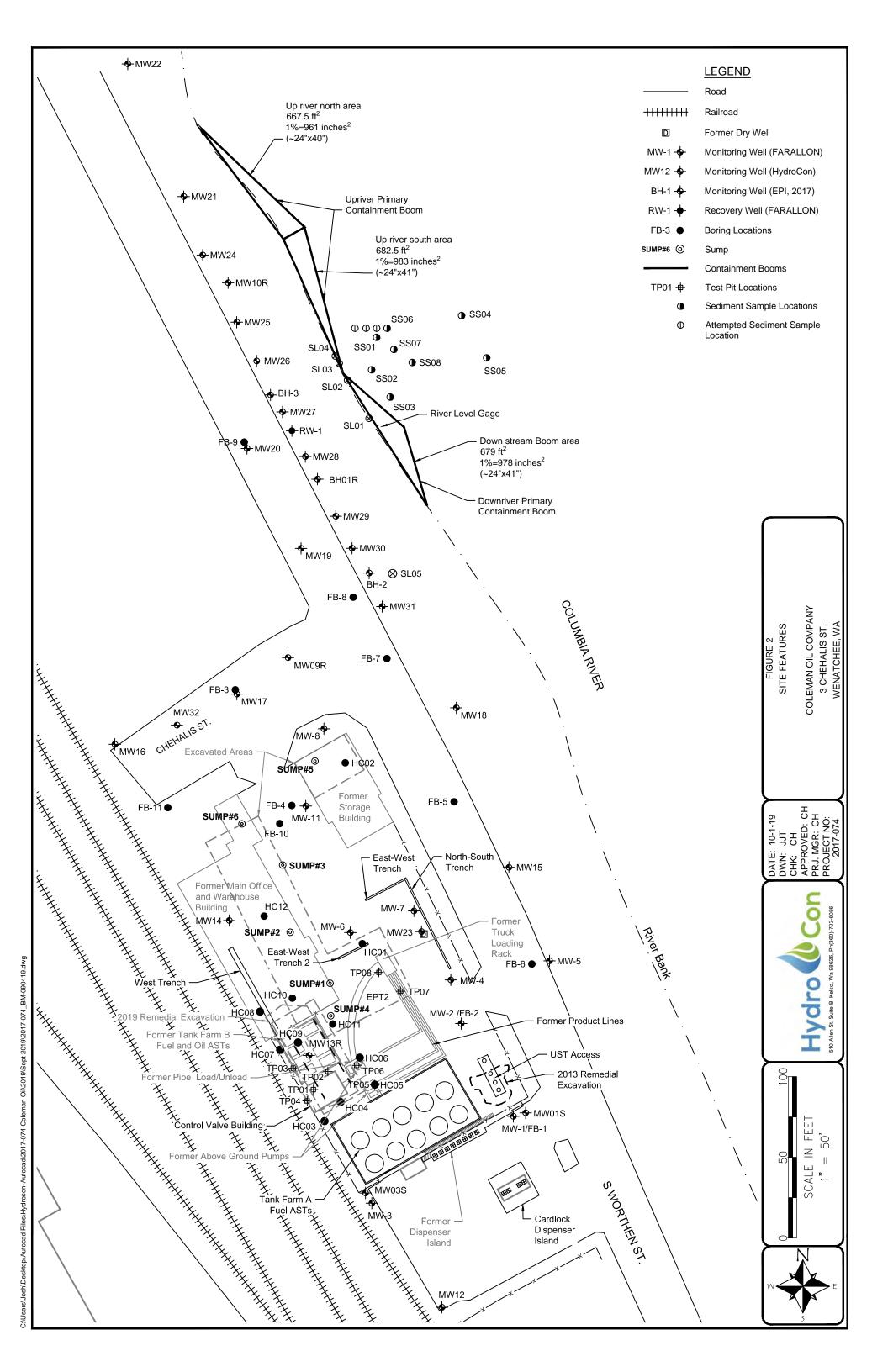
APPENDIX C DATA QUALITY REVIEW REPORT

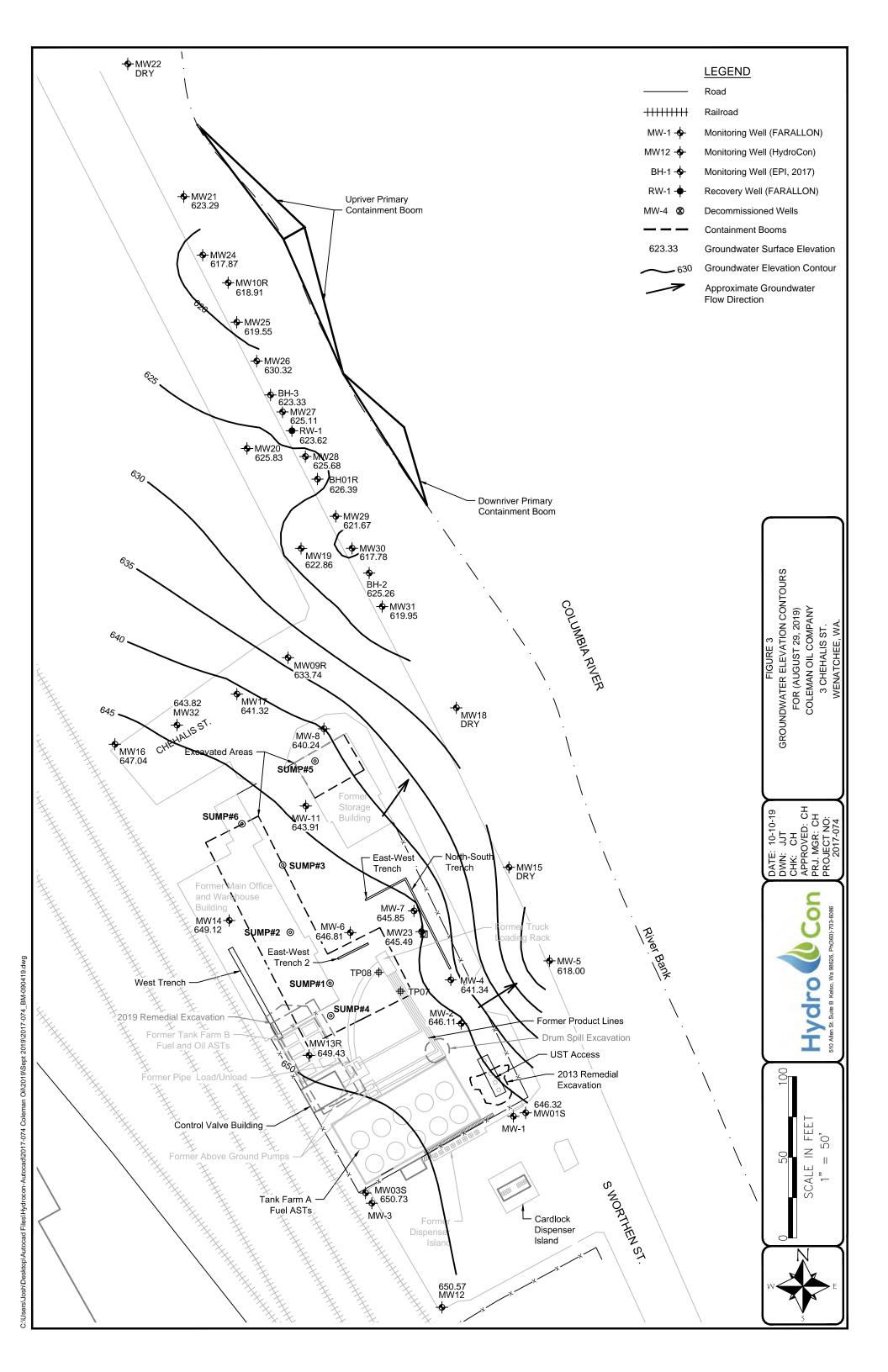
APPENDIX D

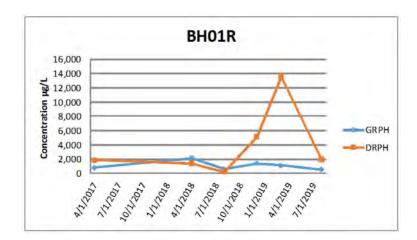
WATER LEVEL AND PRODUCT THICKNESS MEASUREMENTS FORM

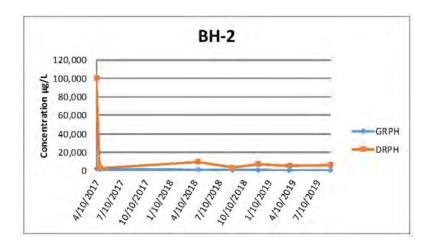
FIGURES











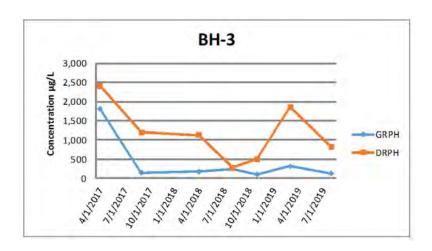
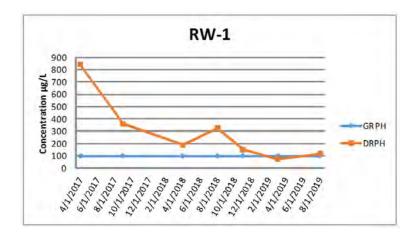
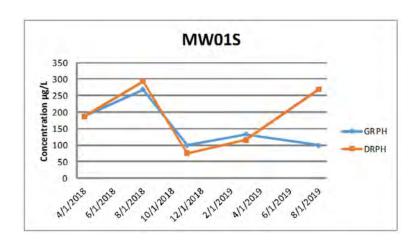






FIGURE 4 TREND PLOTS





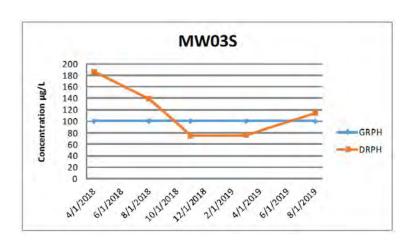
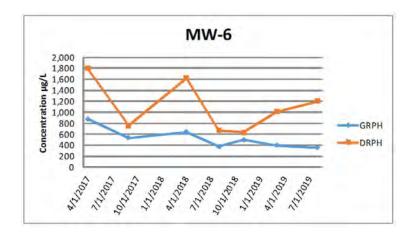


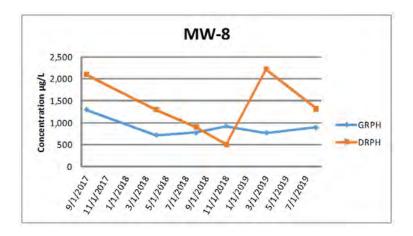




FIGURE 4A TREND PLOTS

3 CHEHALIS ST. WENATCHEE, WA.





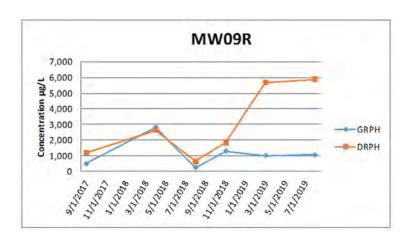
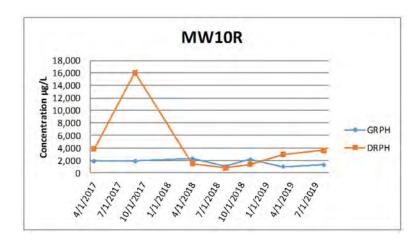
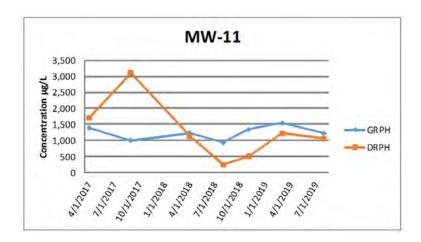






FIGURE 4B TREND PLOTS





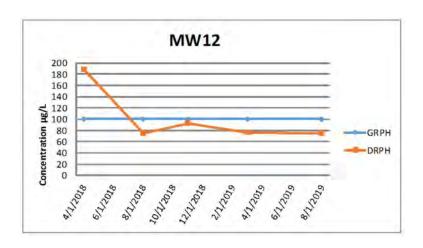
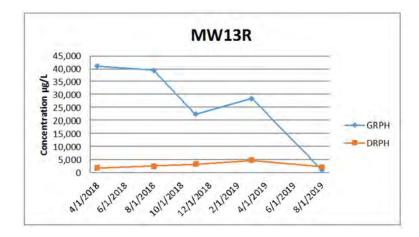
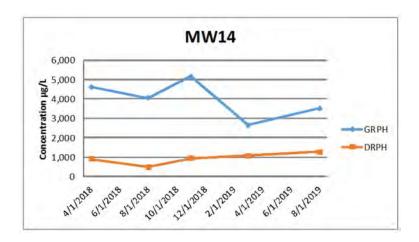






FIGURE 4C TREND PLOTS





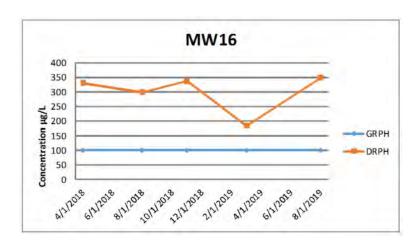
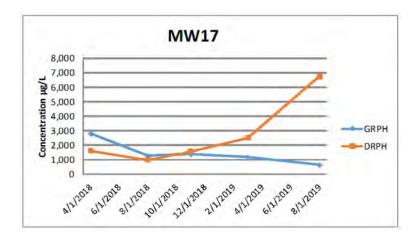
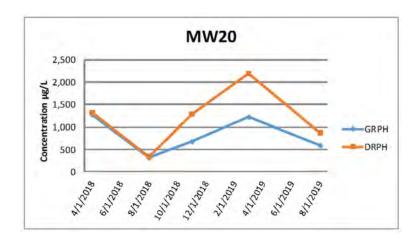






FIGURE 4D TREND PLOTS





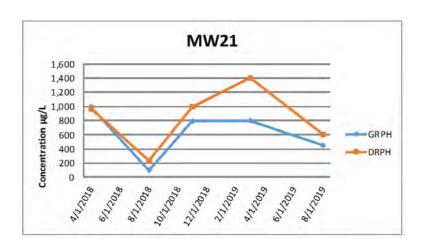
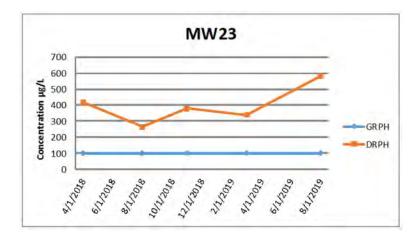
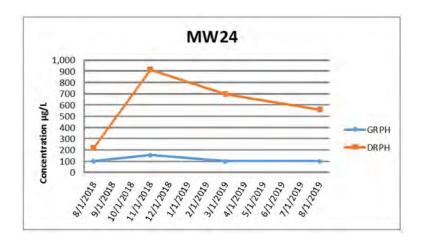






FIGURE 4E TREND PLOTS





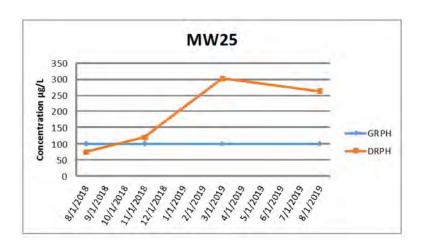
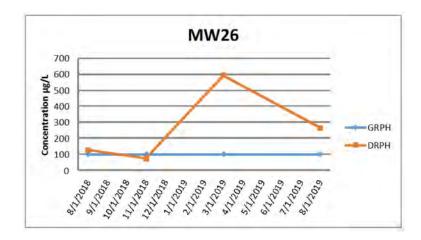
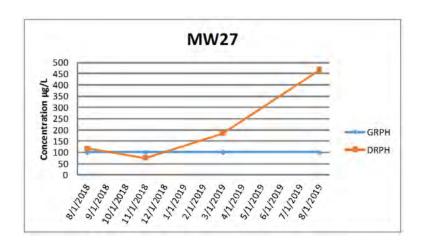






FIGURE 4F TREND PLOTS





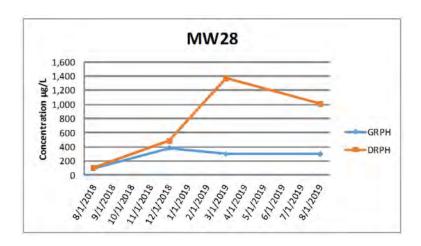
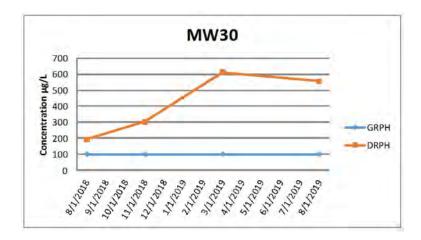
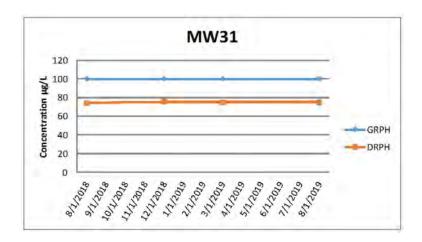






FIGURE 4G TREND PLOTS





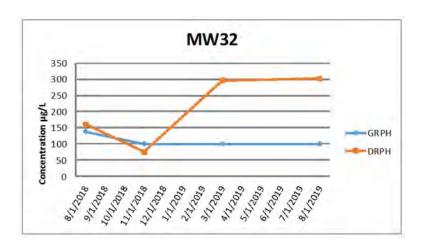
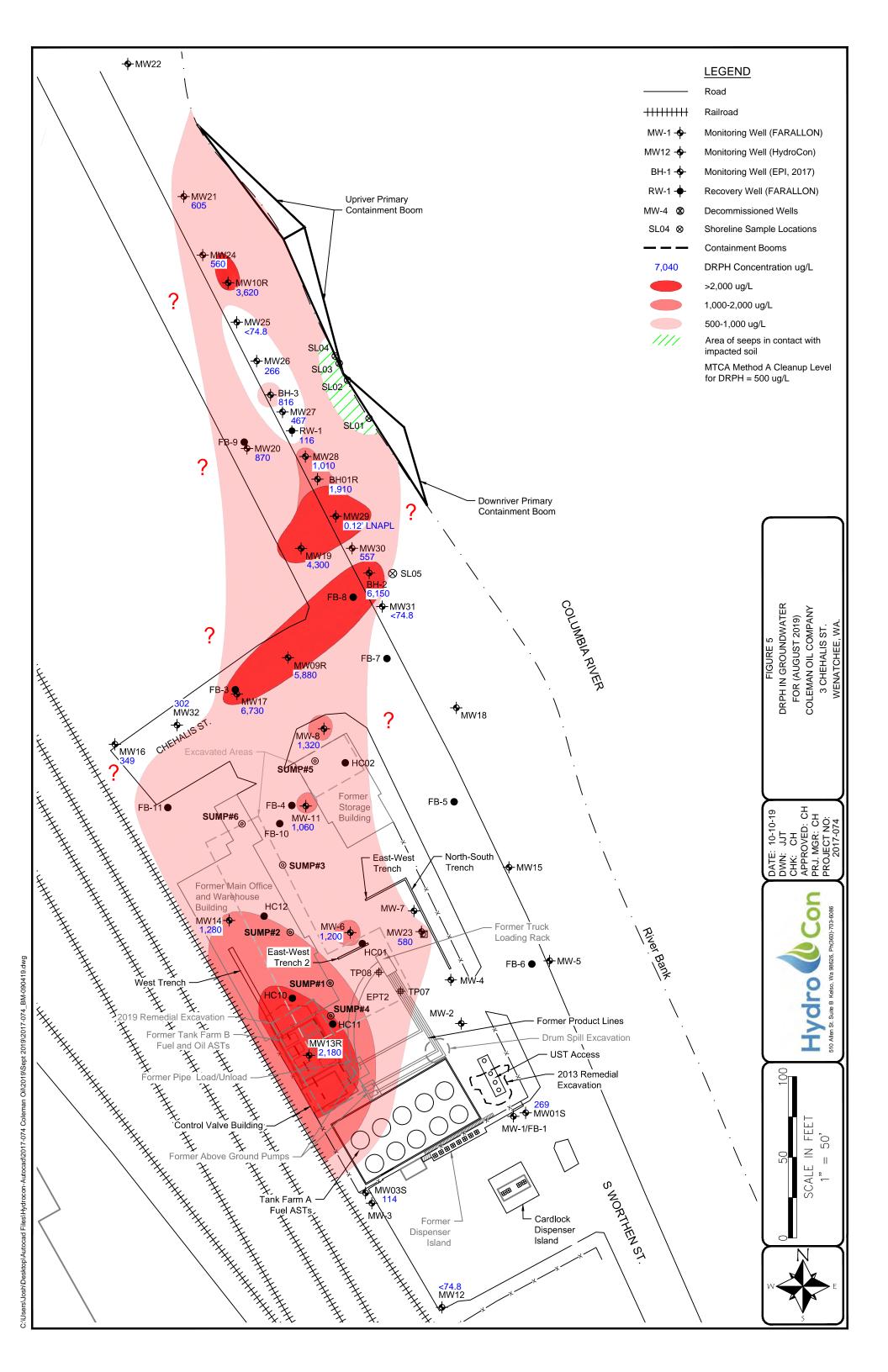
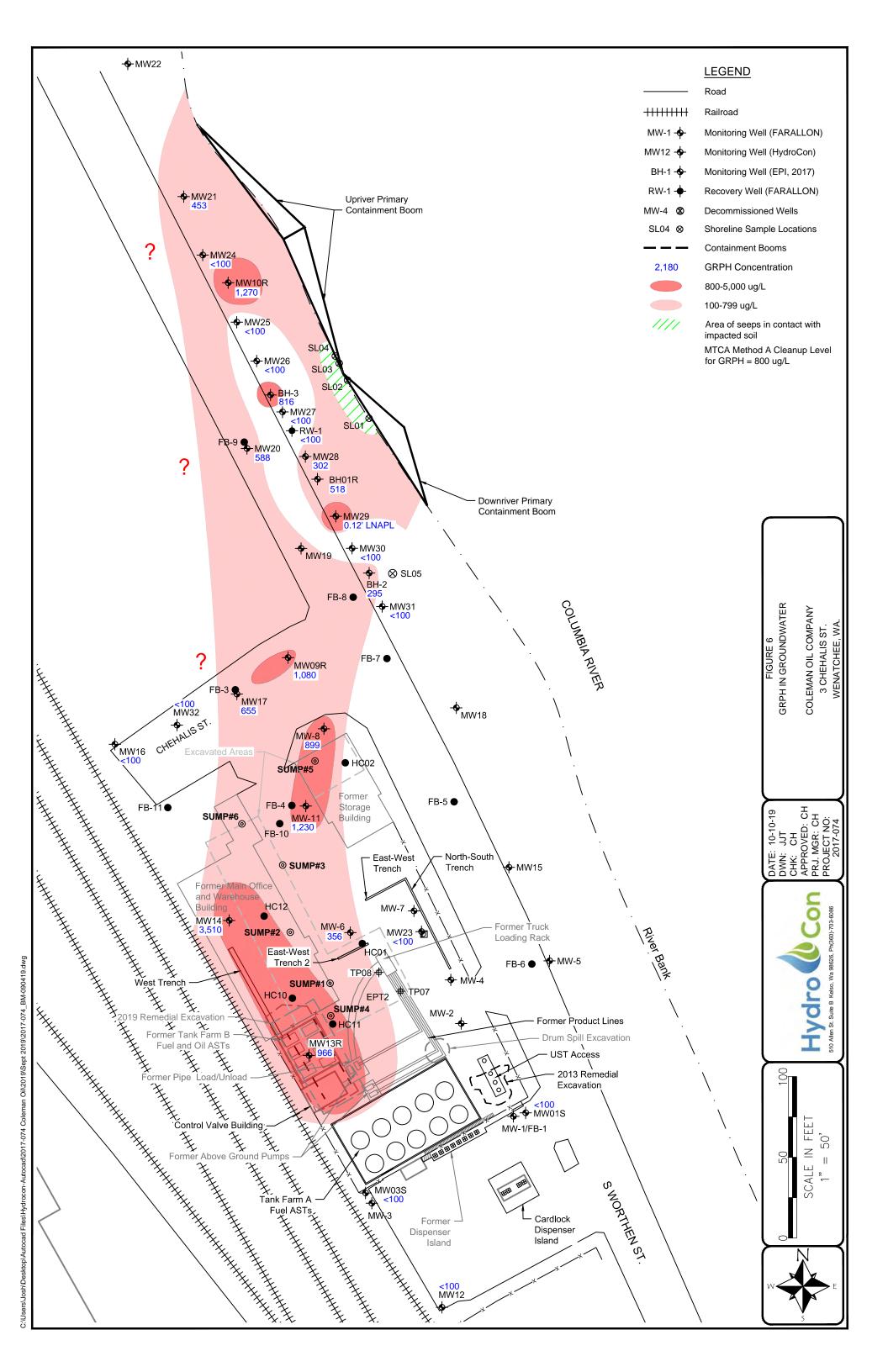






FIGURE 4H TREND PLOTS





TABLES



Table 1 **Well Construction Details** Coleman Oil Wenatchee, Washington

			Drilling	Total Boring Depth	Total Well Depth	Diameter	Well Construction	Slot Size	Length of Screen	Сар	Screened Interval	Well Casing Elevation
Well ID	Date Installed	Installed By	Method	(feet bgs)	(feet bgs)	(inch)	Material	(inch)	(feet)	(feet)	(feet bgs)	(feet¹)
MW-1	7/7/2010	Farallon	Air Rotary	35.50	35.00	2	PVC	0.01	15	- 0.22	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	- 0.22	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
MW13R	7/2/2019	HydroCon	Sonic	19.00	18.46	4	PVC	0.01	14	0.23	4.23 - 18.23	656.67
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:

feet¹ = 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)
	4/17/2017			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		658.01	NM			
MW-1	9/28/2017	20-35		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
	8/29/2019			11.69			646.32
	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
MW01S	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
	8/29/2019			11.81			645.73
	4/17/2017		657.76	9.58			648.18
	4/20/2017			9.61			648.15
	4/27/2017	25-40		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
MW-2	4/25/2018			10.50			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
	8/29/2019			11.65			646.11
	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
MW-3	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			7.80			650.46
	11/26/2018			7.78			650.48
	11/30/2018			7.89			650.37
	3/29/2019			6.42			651.84
	8/29/2019			7.53			650.73

1



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)
	4/25/2018			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
MW03S	11/26/2018	4.43 - 19.43	658.17	7.48			650.33
	11/30/2018			7.93			650.33
	3/29/2019			7.22			650.24
	8/29/2019			7.72			650.45
	4/17/2017			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		657.48	16.93			640.55
	9/28/2017			18.18			639.30
MW-4	4/25/2018	27-37		16.22			641.26
10100-4	4/23/2018	2/-3/		17.59			639.89
				17.25			640.23
	8/27/2018						
	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
	8/29/2019			16.14			641.34
	4/17/2017			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	30-45		38.67			617.33
MW-5	4/25/2018		656.00	NM			
	4/27/2018			35.58			620.42
	8/27/2018			38.21			617.79
	8/31/2018			38.30			617.70
	11/26/2018			38.34			617.66
	11/30/2018			38.44			617.56
	3/29/2019			37.58			618.42
	8/29/2019			38.00			618.00
	4/17/2017			9.57			648.13
MW-6	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	8-18	657.70	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
	8/29/2019]		10.89			646.81



Table 2Depth 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)
	4/17/2017			9.64			647.88
	4/20/2017	1		9.71			647.81
	4/27/2017			10.26			647.26
	5/1/2017	-		10.35			647.17
	6/8/2017	1		11.44			646.08
	7/3/2017			11.91			645.61
	9/28/2017	_	657.52	12.46			645.06
MW-7	4/25/2018	10-20		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
	8/29/2019			11.67			645.85
	4/13/2017			16.71	14.50	2.21	641.21
	4/17/2017		656.20	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	15-25		17.97	17.91	0.07	638.28
	9/28/2017			18.10			638.10
MW-8	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
	8/29/2019			15.96			640.24
	4/17/2017			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	14-24	655.29	18.60	17.33	1.27	637.68
MW-9	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
	8/27/2018		653.55	19.90			635.39
	8/31/2018			19.91			635.38
	11/26/2018	1		28.28			625.27
MW09R	11/30/2018	8.59-33.59		19.94			633.61
	3/29/2019	1		12.82			640.73
	8/29/2019	1		19.81			633.74
	4/17/2017		645.80	16.72			629.08
	4/20/2017	1		17.31			628.49
	4/27/2017	1		18.11			627.69
	5/1/2017	1		18.99			626.81
MW-10	6/8/2017	14-30		19.88			625.92
	7/3/2017	1		25.06	23.62	1.44	621.86
	9/28/2017	1		25.70			620.10
	4/25/2018	1		21.18			624.62
	4/27/2018	1		20.96			624.84



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)
	8/27/2018			24.64			619.66
	8/31/2018			25.71			618.59
MW10R	11/26/2018	14.66-34.64	644.30	27.51			616.79
IVIVVIOR	11/30/2018	14.00-54.04	044.50	26.19	25.95	0.24	618.30
	3/29/2019			18.54			625.76
	8/29/2019			NM			
	4/17/2017			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
MW-11	4/25/2018	12-22	658.00	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
	8/29/2019			14.09			643.91
	4/25/2018			7.37			650.90
	4/27/2018			7.31			650.96
	8/27/2018			8.01			650.26
N 414 2	8/31/2018	4.62.40.62	650.27	8.04			650.23
MW12	11/26/2018	4.63 - 19.63	658.27	7.88			650.39
	11/30/2018			7.93			650.34
	3/29/2019			7.13			651.14
	8/29/2019			7.70			650.57
	4/25/2018			7.39			649.65
	4/27/2018			7.36			649.68
	8/27/2018			8.05			648.99
N 414/1 2	8/31/2018	4.91 - 19.91	CE7.04	8.15			648.89
MW13	11/26/2018	4.91 - 19.91	657.04	8.22			648.82
	11/30/2018			8.17			648.87
	3/29/2019			7.21			649.83
	8/29/2019			7.61			649.43
	4/25/2018			7.81			649.34
	4/27/2018			7.75			649.40
	8/27/2018			8.35			648.80
MW14	8/31/2018	5.23 - 20.23	657.15	8.40			648.75
14144 14	11/26/2018	J.2J - 2U.23	037.13	8.45			648.70
	11/30/2018			8.51			648.64
	3/29/2019			7.70			649.45
	8/29/2019			8.03			649.12
	4/25/2018			NM			
	4/27/2018			34.80			620.19
	8/27/2018			34.76			620.23
MW15	8/31/2018	10.33 - 35.33	654.99	34.82			620.17
IAIAA TO	11/26/2018	10.55 55.55	034.99	dry			
	11/30/2018			dry			
	3/29/2019			dry			
	8/29/2019			dry			



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)
	4/25/2018			9.72			647.21
	4/27/2018			9.70			647.23
	8/27/2018			10.05			646.88
NAVA/16	8/31/2018	0.20.20.20	656.03	10.18			646.75
MW16	11/26/2018	9.28 - 29.28	656.93	10.07			646.86
	11/30/2018			9.73			647.20
	3/29/2019			9.44			647.49
	8/29/2019			9.89			647.04
	4/25/2018			14.25			641.30
	4/27/2018	1		14.22			641.33
	8/27/2018			15.07			640.48
N 4) A / 4 7	8/31/2018	0.52 20.52	655.55	15.14			640.41
MW17	11/26/2018	9.52 - 29.52	655.55	14.78			640.77
	11/30/2018			14.66			640.89
	3/29/2019	-		13.38			642.17
	8/29/2019	-		14.23			641.32
	4/25/2018			NM			
	4/27/2018	-		34.69			619.82
	8/27/2018	-		dry			
	8/31/2018	-		dry			
MW18	11/26/2018	15.86 - 35.86	654.51	dry			
	11/30/2018	-		dry			
	3/29/2019			dry			
	8/29/2019			dry			
	4/25/2018			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
MW19	11/26/2018	11.66 - 31.66	653.31	dry			
	11/30/2018	-		27.72			625.59
	3/29/2019	-		21.30			632.01
	8/29/2019			30.45			622.86
	4/25/2018			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
MW20	11/26/2018	9.79 - 29.79	650.85	25.24			625.65
	11/20/2018	-		24.95			625.90
	3/29/2019	-		13.32			637.53
	8/29/2019	-		25.02			625.83
	4/25/2019			19.40			624.48
	4/23/2018	-					624.48
		-		19.31 20.88			
	8/27/2018 8/31/2018	-					623.00
MW21		12.30 - 32.30	643.88	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
	8/29/2019			20.59			623.29



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)
	4/25/2018			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
MW22	11/26/2018	9.19 - 34.19	641.85	23.49			618.36
	11/30/2018	-		24.74			617.11
	3/29/2019			24.90			616.95
	8/29/2019	-		NM			010.55
	4/25/2018			10.28			646.63
	4/27/2018	-		10.28			646.61
	• •	_					-
	8/27/2018	_		12.16			644.75
MW23	8/31/2018	7.13 - 22.13	656.91	11.99			644.92
	11/26/2018			11.27			645.64
	11/30/2019	-		11.30			645.61
	3/29/2019	-		9.36			647.55
	8/29/2019			11.42			645.49
	8/27/2018			26.03			618.35
	8/31/2018			26.77			617.61
MW24	11/26/2018	14.17 - 34.17	644.38	27.11			617.27
1010024	11/30/2018	14.17 - 34.17	044.36	27.05			617.33
	3/29/2019			24.75			619.63
	8/29/2019	-		26.51			617.87
	8/27/2018			26.01			619.56
	8/31/2018	-		26.49			619.08
	11/26/2018	1		24.96			620.61
MW25	11/30/2018	12.81 - 32.81	645.57	25.19			620.38
	3/29/2019	-		13.45			632.12
	8/29/2019	-		26.02			619.55
	8/27/2018			25.23			621.42
	8/31/2018	-		25.76			620.89
	11/26/2018	_		25.45			621.20
MW26	11/30/2018	13.54 - 33.54	646.65	25.83			620.82
	•						
	3/29/2019	-		16.35			630.30
	8/29/2019			26.33			620.32
	8/27/2018			24.87			624.13
	8/31/2018	-		25.06			623.94
MW27	11/26/2018	13.56 - 38.56	649.00	24.92			624.08
	11/30/2018	-		23.90			625.10
	3/29/2019	_		20.04			628.96
	8/29/2019			23.89			625.11
	8/27/2018			26.04			624.60
	8/31/2018			26.25			624.39
MW28	11/26/2018	13.62 - 38.62	650.64	33.05			617.59
IVIVV∠O	11/30/2018	13.02 - 30.02	030.04	25.00			625.64
	3/29/2019			20.50			630.14
	8/29/2019			24.96			625.68
	8/27/2018			34.43			617.91
	8/31/2018	1		34.84			617.50
	11/26/2018	1		34.92			617.42
MW29	11/30/2018	14.05 - 39.05	652.34	34.25			618.09
	3/29/2019	-		20.80			631.54
	8/29/2019	4		30.67	30.67	<0.01	621.67



Table 2 Depth to Water/Groundwater Elevation Coleman Oil

Wenatchee, Washington

MW30 A	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)
MW30		8/27/2018			34.73			618.10
MW30		8/31/2018			35.01			617.82
11/30/2018 34.84 617.95 8/29/2019 8/29/2019 35.28 617.75 8/29/2018 8/27/2018 8/27/2018 34.55 617.75 8/31/2018 11/30/2019 14.11-39.11 653.97 35.04 618.81 11/30/2019 32.245 618.93 3/29/2019 8/29/2019 34.02 618.93 8/31/2018 8/31/2018 8.95-33.95 655.83 12.24 643.40 11/30/2019 3/29/2019 8/29/2019 8/29/2019 4/17/2017 643.24 11/30/2018 8/29/2019 8/29/2019 652.04 4/17/2017 6/8/2017 6/8/2017 6/8/2017 6/8/2017 6/8/2017 6/8/2017 6/8/2017 6/8/2018 8/31/2018 8/31/2018 8/31/2018 8/31/2018 8/31/2018 8/31/2018 8/31/2018 8/31/2018 8/31/2018 8/31/2018 8/31/2018 8/31/2018 8/31/2018 8/29/2019 14.52-39.52 651.03 20.30 62.65 BHOIR 3/29/2019 14.52-39.52 651.03 652.77 66.66 67.77 67.78	N4N4/20	11/26/2018	1467 2067	652.92	34.91			617.92
	IVI VV 3U	11/30/2018	14.67 - 39.67	652.83	34.84			617.99
MW31 34.55 619.42 35.16 619.42 35.16 618.81 31.70019 31.79/2019 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 619.01 32.45 643.42 12.43 643.42 12.43 643.42 12.43 643.42 12.43 643.45 12.28 643.58 12.25 62.59 12.25 -		3/29/2019			35.28			617.55
MW31		8/29/2019			35.05			617.78
MW31		8/27/2018			34.55			619.42
MW31		8/31/2018			35.16			618.81
11/30/2019 34.96 619.01 3/29/2019 34.02 621.52 34.02 621.52 34.02 621.52 34.02 643.42 34.02 643.42 34.02 643.42 34.02 643.55 34.02 643.55 34.02 643.42 34.02 643.42 34.02 643.42 34.02 643.42 34.02 643.55 3/29/2019 643.55 3/29/2019 643.55 34.02 643.55 34.02 643.55 34.02 643.55 34.02 643.55 34.02 643.55 34.02 643.55 34.02 643.55 34.02 643.55 34.02 643.55 34.02 643.55 34.02 643.55 34.02 643.55 34.02 622.46 34.02	N 41A/24	11/26/2018	1411 2011	CE2 07	35.04			618.93
8/29/2019 34.02 619.95	IVIVV31	11/30/2019	14.11 - 39.11 	653.97	34.96			619.01
MW32		3/29/2019			32.45			621.52
MW32 11/26/2018 11/26/2019 8.95 - 33.95 655.83 12.28		8/29/2019			34.02			619.95
MW32		8/27/2018			12.41			643.42
MW32					12.43			643.40
11/30/2019 8.95-35.95 655.83 12.25 643.58 644.70 8/29/2019 12.01 644.70 645.70 644.70 6				C== 00	12.28			643.55
3/29/2019 11.13 644.70	MW32		8.95 - 33.95	655.83	12.25			643.58
8/29/2019					11.13			
A/17/2017 A/20/2017 A/27/2017 A/27/2017 A/27/2017 A/27/2017 A/25/2018 A/27/2018 A/27/2019 A/27/2017 A/27					12.01			643.82
A/20/2017 A/27/2017 A/27/2017 5/1/2017 5/1/2017 23.16 629.29 29.29 29.20 652.17 23.16 629.21 25.64 626.53 28.46 27.91 0.55 624.14 27.2018 28.46 27.91 0.55 624.14 23.03 623.44 27.2018 26.21 625.90 26.27 625.90 26.27 625.90 26.27 625.90 26.27 625.90 26.27 625.90 27.20 27.20 28.48 26.21 625.90 26.27 625.90 26.27 625.90 26.27 625.90 26.27 625.90 27.20								
A/27/2017 5/1/2017 6/8/2017 23.16 629.29		• •			20.13			
S-1/2017 6/8/2017 7/3/2017 20-30 652.17 23.16 629.01								+
BH-1								+
BH-1 9/28/2017 20-30 652.17 28.46 27.91 0.55 624.14 9/28/2018								-
BH-1						27.91	0.55	†
## A 1/25/2018 A 1/27/2018 A 1/27/2018 A 1/27/2018 A 1/26/2018 A 1/26/2019 A 1/26/2019 A 1/26/2019 A 1/26/2017 A 1/20/2017 A 1/20/2018 A 1/20/2019 A 1/20/2019 A 1/20/2018 A 1/20/2019 A 1/20/2019 A 1/20/2019 A 1/20/2019 A 1/20/2019 A 1/20/2018 A 1/20/2018 A 1/20/2018 A 1/20/2018 A 1/20/2019 A 1/20/2019 A 1/20/2018 A 1/20/2018	BH-1		20-30	652.17				
4/27/2018 8/27/2018 20.03 632.14 8/27/2018 26.21 625.96 8/31/2018 26.27 625.90 11/26/2018 11/30/2018 NM 8/29/2019 3/29/2019 14.52-39.52 651.03 20.30 630.73 8/29/2017 4/20/2017 26.16 627.47 4/27/2017 26.56 26.48 0.08 627.27 5/1/2017 6/8/2017 26.68 26.58 0.10 627.17 6/8/2017 7/3/2017 28.86 624.91 9/28/2017 8/27/2018 20-35 653.77 27.68 626.24 8/31/2018 11/26/2018 11/26/2018 11/26/2018 11/30/2018 28.66 trace 625.11 11/30/2018 3/29/2019 27.75 626.02								
8/27/2018 8/31/2018 26.21								
BH-2								+
11/26/2018 NM								+
BH01R 3/29/2019 14.52-39.52 651.03 20.30 630.73								
BH01R								
BHOIR 8/29/2019 14.52-39.52 651.03 24.64 4/20/2017 4/20/2017 4/27/2017 5/1/2017 6/8/2017 6/8/2017 7/3/2017 9/28/2017 8H-2 4/25/2018 4/28/2017 8/27/2018 8/31/2018 11/26/2018 11/30/2018 3/29/2019 651.03 24.64 26.16 26.30 26.48 0.08 627.27 26.56 26.48 0.08 627.27 26.68 26.58 0.10 627.17 26.73 624.91 31.25 624.91 27.53 626.09 27.53 626.24 28.50 625.27 624.86 11/26/2018 11/30/2018 3/29/2019								630.73
A/17/2017	BH01R		14.52-39.52	651.03				
## A/20/2017 ## A/27/2017 ## A/27/2017 ## BH-2 ## BH-2								
A/27/2017								-
5/1/2017 6/8/2017 26.68 26.58 0.10 627.17 6/8/2017 26.73 627.04 28.86 624.91 31.25 622.52 4/28/2017 27.68 626.09 4/28/2018 20-35 27.53 625.27 8/27/2018 8/31/2018 28.50 625.27 8/31/2018 11/26/2018 28.66 trace 625.11 11/30/2018 3/29/2019 27.75 626.02						26 48		-
BH-2								
BH-2 28.86 624.91 31.25 622.52 4/25/2018 20-35 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-2								-
BH-2 4/25/2018 20-35 653.77 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 3/29/2019 27.75 626.02								
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	RH-2		20-35	653 77				
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	511 2			333.77				+
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								
11/26/2018 28.66 trace 625.11 11/30/2018 28.63 trace 625.14 3/29/2019 27.75 626.02								-
11/30/2018 28.63 trace 625.14 3/29/2019 27.75 626.02								+
3/29/2019 27.75 626.02		• •						
		8/29/2019			28.51			625.26



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)
	4/17/2017			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
BH-3	4/25/2018	15-30	648.76	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
	8/29/2019			25.43			623.33
	4/17/2017			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
RW-1	4/25/2018	15-30	650.42	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
	8/29/2019			26.80			623.62

NOTES:

¹Elevation 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.

⁻⁻⁻ denotes no LNAPL present



	Ī		Fuels					Volatiles				
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	МТВЕ	EDB	EDC
		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 C	Cleanup for Groundwater	800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detect	t)	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 ec	71	13	7.1	64				
	4/21/2017	820 F	1,900	970 N1	15	2.8	8.3	18.5				
BH-1	4/26/2018	2,140	1,390	<377	0.671	<1.00	5.55	12.5				
BH-1	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				
PHOTK	8/27/2019	518	1,910 F-13	<150	0.240	<1.00	<0.500	<1.50				
	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				
BH-2	8/28/2018	639	3,300	<148	<0.200	<1.00	<0.500	<1.50				
<u>-</u>	11/30/2018	509	7,040	<151	<0.200	<1.00	<0.500	<1.50				
-	3/27/2019	354	5,310 F-13, F-15	475 F-03, F-16	<0.200	<1.00	<0.500	<1.50				
	8/27/2019	295	6,150 F-13	<150	<0.200	<1.00	<0.500	<1.50				
	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				
BH-3	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				
<u>-</u> -	8/28/2019	121	816 F-13	<150	<0.200	<1.00	<0.500	<1.50				



	ſĭ				1							
			Fuels				T	Volatiles	; 			
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
	leanup for Groundwater	800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detect	:)	1,000										
Benzene (Detect)		800			<u> </u>							
Field ID	Date											
	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				
RW-1	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				
	8/28/2019	<100	116 F-11	<150	<0.200	<1.00	<0.500	<1.50				
	3/23/2017		520	480								
	4/21/2017	210 F	730	510	<1.0	<1.0	<1.0	<2.0				
D 41 A / 4	9/29/2017	200	410	<410	<1.0	<1.0	<1.0	<2.0				
MW-1	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				
	4/24/2018	188	<187	<374	0.42	<1.00	5.8	9.48				
	8/28/2018	268	294	<151	1.49	<1.00	1.26	<1.50				
MW01S	11/27/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50				
	3/25/2019	133	116 F-11, F-20	<151	<0.200	<1.00	4.18	8.97				
	8/26/2019	<100	269 F-11, F-20	<150	<0.200	<1.00	<0.500	<1.50				
	3/23/2017		<260	<410								
MW-2	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				



			Fuels					Volatiles	•			
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	МТВЕ	EDB	EDC
		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
	Cleanup for Groundwater	800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detec	t)	1,000										
Benzene (Detect)		800										
Field ID	Date			I	-11			T	1		T	Т
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				
	4/25/2018	<100	<187	<374	<0.200	<1.00	<0.500	<1.50	<2.00	<1.00	<0.500 ec	<0.400
	8/29/2018	<100	139	<151	<0.200	<1.00	<0.500	<1.50				
MW03S	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				
	8/26/2019	<100	114 F-11	<150	<0.200	<1.00	<0.500	<1.50				
	3/23/2017		<260	<410								
MW-4	4/20/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0				
IVI VV -4	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				
	3/23/2017		<260	<410								
	4/20/2017	<100	<260	<410	<1.0	<1.0	<1.0	<2.0				
MW-5	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				
	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				
MW-6	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				
-	8/26/2019	356	1,200 F-13	<150	<0.200	<1.00	<0.500	<1.50				



			Fuels					Volatiles				
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		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 Cl	leanup for Groundwater	800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detect)	·	1,000										
Benzene (Detect)		800										
Field ID	Date											
	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				
MW-7	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				
	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				
MW-8	8/29/2018	774	907	<151	<0.200	<1.00	<0.500	3.42				
10100-0	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				
	8/26/2019	899	1,320 F-13,F-20	<151	0.853	<1.00	0.504	2.17				
MW-9	9/29/2017	500 O	1,200	670 N1	<1.0	<1.0	<1.0	1.5				
10100-5	4/26/2018	2,810	2,620	<374	2.73	<1.00	9.95	20.4				
	8/29/2018	234	654	<151	<0.200	<1.00	<0.500	<1.50				
MW-9R	11/28/2018	1,300	1,850	<151	<0.200	<1.00	<0.500	<1.50				
1V1VV-31V	3/26/2019	1,000	5,690 F-13,F-20	<151	5.64	<1.00	0.545	<1.50				
	8/27/2019	1,080	5,880 F-13	<150	<0.200	<1.00	<0.500	<1.50				
	4/21/2017	1,900 F	3,800	730	3.4	< 1.0	11	12.5				
MW-10	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				
	8/30/2018	1,080	838	< 150	< 0.200	< 1.00	1.22	2.42				
MW-10R	11/29/2018	2,160	1,370	< 755 ec	<0.200	<1.00	3.90	5.98				
IAIAA-TOK	3/28/2019	1,020	2,960 F-13	<151	0.401	<1.00	0.837	<1.50				
	8/27/2019	1,270	3,620 F-13	<1,510 ec	<0.200	<1.00	1.44	3.06				



Coleman Oil Site Wenatchee, Washington

	G											
			Fuels					Volatiles				
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
	Cleanup for Groundwater	800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detec	ct)	1,000										
Benzene (Detect)		800										
Field ID	Date	Ţ	Ţ		11	Γ	1	T	1			
	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				
MW-11	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				
	8/26/2019	1,230	1,060 F-13, F-20	<151	<0.200	<1.00	<0.500	<1.50				
	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				
MW12	11/27/2018	<100	92.8	<151	<0.200	<1.00	<0.500	<1.50		<u></u>		
	3/25/2019	<100	<76.2	<152	<0.200	<1.00	<0.500	<1.50				
	8/26/2019	<100	<74.8	<150	<0.200	<1.00	<0.500	<1.50				
	4/25/2018	40,900	1,790	<377	1,500	4,710	627	3,780				
NAVA/4 2	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
MW13	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				
MW13R	8/26/2019	966	2,180 F-11,F-20	<151	96.4	<1.00	8.52	28.5				
	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 ec	<0.400
MW14	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				
	8/26/2019	3,510	1,280 F-11,F-20	<151	44.2	<10.0	5.95	<15				



			Fuels					Volatiles	j			1
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	МТВЕ	EDB	EDC
		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
	Cleanup for Groundwater	800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Dete	ect)	1,000										
Benzene (Detect)		800			_							
ield ID	Date											T
	4/25/2018 iw											
	8/29/20018 iw											
MW15	11/27/2018 iw											
	3/26/2019 iw											
	8/26/2019 iw											
	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				
MW16	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				
	8/26/2019	<100	349 F-11	<150	<0.200	<1.00	<0.500	<1.50				
	4/26/2018	2,800	1,630	<377	1.23	<1.00	1.62	7.66	4.72	<1.00	<0.500 ec	<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
MW17	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				
	8/26/2019	655	6,730 F-13	<150	2.72	<1.00	<0.500	<1.50				
	4/26/2018 iw											
	8/2920018 iw											
MW18	11/27/2018 iw											
	3/26/2019 iw											
	8/26/2019 iw											
	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				
MW19	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				
	8/26/2019											



			Fuels					Volatiles	.			
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
	Cleanup for Groundwater	800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Detec	t)	1,000										
Benzene (Detect)		800			<u> </u>							<u> </u>
Field ID	Date			I	1	T		T	I I		T	
	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				
MW20	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				
	8/28/2019	588	870 F-11,F-20	<150	<0.200	<1.00	<0.500	<1.50				
	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				
MW21	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				
·	8/27/2019	453	605 F-11,F-20	<150	<0.200	<1.00	<0.500	<1.50				
	4/26/2018	6,960	4,690	<377	118	28.8	102	196				
MW22	8/30/2018	2,040	1,150	< 748 ec	30.4	5.34	30.5	55.9				
	4/25/2018	<100	419	<381	<0.200	<1.00	<0.500	<1.50				
·	8/29/2018	<100	266	<150	<0.200	<1.00	<0.500	<1.50				
MW23	11/27/2018	<100	380	<151	<0.200	<1.00	<0.500	<1.50				
ŀ	3/25/2019	<100	339 F-11	<152	<0.200	<1.00	<0.500	<1.50				
·	8/26/2019	<100	580 F-11	<150	<0.200	<1.00	<0.500	<1.50				
	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				
MW24	3/28/2019	<100	696 F-13	<150	<0.200	<1.00	<0.500	<1.50				
ŀ	8/27/2019	<100	560 F-11, F-20	<150	<0.200	<1.00	<0.500	<1.50				
	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				
MW25	3/28/2019	<100	302 F-11	<151	<0.200	<1.00	<0.500	<1.50				
	8/27/2019	<100	262 F-13	<150	<0.200	<1.00	<0.500	<1.50				



8/27/2019

557 F-13

<150

<100

Table 3 Groundwater Analytical Results - Fuels and VOCs

Coleman Oil Site
Wenatchee, Washington

			Fuels	1		ı	1	Volatiles	<u>, </u>		T	
		GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Xylene, Total	Naphthalene	MTBE	EDB	EDC
		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
	Cleanup for Groundwater	800/1000	500	500	5	1,000	700	1,000	160	20	0.01	5
Benzene (Non Dete	ect)	1,000										
Benzene (Detect)		800			<u> </u>							
ield ID	Date	T T		1	Ш	Γ		I			T	
	8/30/2018	<100	128	<150	<0.200	<1.00	<0.500	<1.50				
MW26	11/29/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50				
1010020	3/28/2019	<100	591 F-13	<150	<0.200	<1.00	<0.500	<1.50				
	8/27/2019	<100	266 F-13	<150	<0.200	<1.00	<0.500	<1.50				
	8/30/2018	<100	118	<150	<0.200	<1.00	<0.500	<1.50				
N 4) A / 2 7	11/29/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50				
MW27	3/28/2019	<100	185 F-13	<150	<0.200	<1.00	<0.500	<1.50				
	8/28/2019	<100	467 F-11	<150	<0.200	<1.00	<0.500	<1.50				
	8/30/2018	<100	105	<150	<0.200	<1.00	<0.500	<1.50				
N 414/20	12/1/2018	385	486	<158	0.208	<1.00	<0.500	<1.50				
MW28	3/27/2019	303	1,370 F-13	<151	1.30	<1.00	<0.500	<1.50				
	8/27/2019	302	1,010 F-13	<150	<0.200	<1.00	<0.500	<1.50				
	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				
MW29	3/27/2019	237	2,930 F-13,F-15	928 F-16	1.64	<1.00	<0.500	<1.50				
	8/26/2019											
	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				
MW30	3/27/2019	<100	612 F-13	<150	<0.200	<1.00	<0.500	<1.50				
		1200	VIZ. 1 13	,100	10.200	-1.00	10.500	71.50	ļ			

<0.200

<1.00

<0.500

<1.50



Table 3

Groundwater Analytical Results - Fuels and VOCs

Coleman Oil Site Wenatchee, Washington

		Fuels			Volatiles							
	GRPH	GRPH DRPH ORPH			Toluene	Ethylbenzene	Xylene, Total	Naphthalene	МТВЕ	EDB	EDC	
	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	
Benzene (Non Detect)	1,000											
Benzene (Detect)	800											

Field ID	Date											
	8/28/2018	<100	<74.1	<148	<0.200	<1.00	<0.500	<1.50				
MW31	12/1/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50				
IVIVV31	3/27/2019	<100	<74.8	<150	<0.200	<1.00	<0.500	<1.50				
	8/27/2019	<100	<74.8	<150	<0.200	<1.00	<0.500	<1.50				
	8/29/2018	139	161	<148	<0.200	<1.00	<0.500	<1.50	<2.00	<1.00	<0.500 ec	<0.500
MW32	11/28/2018	<100	<75.5	<151	<0.200	<1.00	<0.500	<1.50				
1717732	3/26/2019	<100	296 F-11	<150	<0.200	<1.00	<0.500	<1.50				
	8/26/2019	<100	302 F-11	<150	<0.200	<1.00	<0.500	<1.50				

Notes:

Red denotes concentration in excess of MTCA Method Cleanup Level for Groundwater.

Blue denotes concentration in excess of laboratory method reporting limit (MRL) but below the 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 Historical 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 MTC	A Method A					0.1		_			
Cleanu	Level for										
Grou	ndwater										
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	<0.0935
MW22	4/26/2018	113	<12.3	8.48	0.284	<0.0943	<0.0943	<0.0943	<0.0943	0.243	<0.0943
IVIVVZZ	8/30/2018	43.4	4.21	3.32	0.156	<0.0374	< 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	<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 MTC	CA Method A		_					160			0.1
Cleanu	p Level for										
Grou	ndwater										
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
NAVA/22	4/26/2018	8.55	3.2	36.7	<0.0943	298	210	692	36.6	4.30	0.0968
MW22	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 Groundwater Analytical Results - Geochemical Indicators Coleman Oil Site Wenatchee, Washington

		Fi	eld Parameter	·s		La	boratory Analy	/tical		Field Test
		Dissolved Oxygen	Redox Potential	рН	Nitrate	Sulfate	Alkalinity	Manganese	Methane	Ferrous Iron
Field ID	Date	mg/L	mV	Unitless	mg/L	mg/L	mg/L	μg/L	mg/L	mg/L
BH01R	8/27/2019	0.30	-83.3	6.16	<0.05	0.50	435	9,780	2,100	5.5
BH-2			-80.3				431			4.0
BH-3	8/27/2019	0.37		6.10	<0.05	1.41		4,410	2,200	
RW-1	8/28/2019	0.29	-79.9	6.16	<0.05	6.78	619	1,570	1,500	6.5
MW01S	8/28/2019	0.92	-17	7.10	<0.05	18.3	487	52.8	340	0.0
MW03S	8/26/2019	0.18	117	6.07	0.75	78.4	185	589	21	0.0
MW-6	8/26/2019	0.18	17	6.44	<0.05	25.4	230	482	29	0.0
MW-8	8/26/2019	0.63	-196	6.42	<0.05	8.79	241	714	3,100	0.0
MW-9R	8/26/2019 8/27/2019	0.65	-87	6.75	<0.05	<0.1	375	3,370 J	8,100	4.5
		0.71	-21	6.70	<0.05	4.97	148	5,800	540	3.0
MW-10R	8/27/2019	0.71	0	6.80	<0.05	0.39	490	4,410 J	1,600	1.5
MW-11	8/26/2019	0.72	-92	6.78	<0.05	<0.1	334	2,030	6,300	6.5
MW12	8/26/2019	0.18	31.7	6.37	<0.05	39.5	175	130	7.3	0.0
MW13R	8/26/2019	0.54	-91	7.09	<0.05	50.6	333	2,160	200	0.0
MW14	8/26/2019	0.63	-90	6.83	<0.05	<0.1	414	1,890	1,400	0.0
MW15	8/26/2019									
MW16	8/26/2019	1.69	85	6.55	2.0	22.2	306	91	<1	0.0
MW17	8/26/2019	0.18	-103.5	6.02	<0.05	0.32	418	3,450	4,100	3.5
MW18	8/26/2019									
MW19	8/26/2019									
MW20	8/28/2019	0.22	-37	5.97	<0.05	0.18	462	6,980	99	5.0
MW21	8/27/2019	1.03	-8	6.64	<0.05	22.8	468	3,450	1,700	2.0
MW23	8/26/2019	0.69	-117	6.29	<0.05	43.1	284	1,590	140	0.5
MW24	8/27/2019	1.01	-22	6.81	<0.05	15.2	450	1,330	640	3.0
MW25	8/27/2019	0.70	12	7.43	<0.05	20.5	396	330	3.1	0.0
MW26	8/27/2019	0.79	17	7.13	<0.05	14.0	487	810	20	2.0
MW27	8/28/2019	0.93	-36	6.90	<0.05	9.60	504	3,920	500	2.5
MW28	8/27/2019	0.22	-61.6	6.16	<0.05	2.39	472	10,700 J	2,100	4.5
MW29	8/27/2019p									
MW30	8/27/2019	0.37	-149.4	6.28	<0.05	2.32	592	1,460	790	3.5
MW31	8/27/2019	0.39	-108.4	6.40	<0.25	63.8	578	413	230	2.5
MW32	8/26/2019	2.77	128.4	6.07	0.35	22.7	279	274	38	0.1

Notes:

 $\label{thm:parameters} \textbf{Field parameters measured during sample collection using a YSI multi-parameter meter.}$

Nitrate analyzed by EPA Method 300.0.

Sulfate analyzed by EPA Method 300.0.

 $\label{eq:manganese} \mbox{Manganese analyzed by EPA Method 200.8.}$

Alkalinity analyzed by Method SM3220-B. Ferrous Iron by Hach test kit.

< = less than method reporting limit shown

- --- = not analyzed. MW15, MW18, and MW19 not sampled due to lack of water in the well.
- p = Product recorded in well. No sample collected.
- J = estimated value Matrix spike and or duplicate analysis was performed on this sample. % recovery or RPD for this analyte is outside laboratory control limits.



Table 6 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
MW-1	8/29/2019	658.01	35	11.69	646.63	23.35	634.67	-6.98	-0.60	0.086
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			
MW01S	8/29/2019	657.54	19.99	11.81	646.03	15.90	641.64			

Mid-Point

Elevation

Difference

-7.62

-7.63

-7.73

-7.74

-7.36

-7.66

GWE

Difference

-0.38

-0.34

-0.15

-0.13

-0.13

-0.13

Gradient

(ft/ft)

0.050

0.045

0.019

0.017

0.018

0.017

Location	Date	TOC	Total Depth	DTW	GWE	Mid-Point	Mid-Point Elevation
							Lievation
MW-3	8/27/2018	658.26	35	7.75	650.51	21.38	636.89
MW-3	8/31/2018	658.26	35	7.80	650.46	21.40	636.86
MW-3	11/26/2018	658.26	35	7.78	650.48	21.39	636.87
MW-3	11/30/2018	658.26	35	7.89	650.37	21.45	636.82
MW-3	3/29/2019	658.26	35	6.42	650.37	20.71	637.55
MW-3	8/29/2019	658.26	35	7.53	650.37	21.27	637.00
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
MW03S	8/29/2019	658.17	19.3	7.72	650.24	13.51	644.66

Notes:

All Units in feet



Table 7 List of Monitoring Wells and Required Laboratory Analysis

Coleman Oil Site Wenatchee, Washington

			T
		Total	
		Depth	
Well ID	Location of Well	(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:

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

APPENDIX A GROUNDWATER SAMPLE COLLECTION FORMS

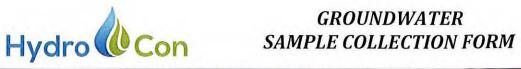


GROUNDWATER

SAMPLE COLLECTION FORM Well I.D. Number: M.Wo15 Project Name: Coleman Oil Wennetchee Time: 1130 Sample I.D. MWOIS-W Hydrocon Project #: 2017-074 Field Duplicate I.D.____ Time: -8/26/19 CO Date Personnel: WELL INFORMATION Monument condition: 🗷 Good 🔲 Needs repair Water in Monument Replaced Needs replacement Surface Water in Well Well cap condition: K Good Not measured Headspace reading: Odor ppm 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 11.75 ft Intake Depth (BTOC) 151 Begin Purging Well: 1107 Depth to water 8.24 ft (H₂O) X 0.65 gal/ft = 5.36 gal. X 3 = 16.08 gal. Casing volume 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_ Water Disposal: ☐ Drummed 🔀 Remediation System ☐ Other Bailer type: None FIELD PARAMETERS Odor and/or Sheen:_ Dissolved Water **Purge Rate** Time Temp. Sp. Cond. Oxygen pH **Turbidity** ORP (±10% or (°C) Level (L/min) (mS/cm) (SU) (NTU) (mV) ≤1.00 ±0.2) (± 10% or ≤10) (BTOC) (±3%) (± 0.1) 11.80 20.6 .817 0.38 6.06 113.7 2.48 1110 1. 31 11.80 20.0 ,817 6.05 115-7 1113 0.41 11.81 0.155 6.06 0.89 .818. 116,0 1116 20.1 0.26 1119 11.81 19.9 .321 0.22 6.07 116.5 0.91 11.81 6.07 1122 19.4 1823 81.0 117.0 101 JOW 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 Preservative		Field Filtered?	Analysis
40ml VOA	5	HCI	No. 0.45 0.10	GX, BTEX, 125K 175
1 Loumber	1	Hel	No 0.45 0.10	bx
250 ml poly	2	-	No 0.45 0.10	Nitroste, Alk, Sulf
250 ml poly	1	14NO2	No 0.45 0.10	Mn
1-7			No 0.45 0.10	

Sampling Comments:	Ferrons	Iron	Field	Kit: 0.0 ma/L	



Well I.D. Number: WW035

		07 W 7-074		ie	Sample I.D Field Duplica Personnel:_	ite I.D		Time: <u>1040</u> Time:
nt condition condition: ce reading: neter:	: 😡 Go	ot measured inch	1	ppm		lor		
Il depthl' product wateri blumei Conversion F	1.30 1.70 60 Factors:	ft Botto ft ft Intak ft (H ₂ O) 2 3/4"=0.02	e Depth	(BTOC) 13	Begi = 구·5닉	n Purging We _gal. X 3 =	ll: 10:19 27.62 g	al.
oe 🗷 Perist oe:	taltic [☐ Centrifug				tion System	Other	
Water Level (BTOC)	Purg		Г етр. (°С)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
7.85 7.95 8.00 9.07 8.13	0.	165 20 20	0.6 2.5 2.4	.454 .450 .450 .460 .449	0.28 0.28 0.24 0.21 0.13	6.44 6.43 6.44 6.44 6.44	12.3 13.1 15.5 14.0	12.5
					ity and Turbidity		xygen are record	ed within their
omments:		A minimidin of	six illeasu	rements should	be recorded.			
VUA	Bottle Count 5	Preservative HCI HCI HNO:	No 0 No 0	.45 0.10 .45 0.10		BTEK, R	SK 175	
	NFORMATI Int condition: condition	NFORMATION Int condition: Good	NFORMATION Int condition: Good Ne condition: Good Rece reading: Not measured neter: 2-inch sts GINFORMATION Il depth 19.30 ft Botto oroduct ft Mater 16.00 ft (H2O) in achieved if three successive measured neters: Water Level (L/min) BY ARAMETERS Water Level (L/min) BY ARAMETERS Water Level (L/min) BY ARAMETERS Water Level (L/min) Conversion Factors: 3/4"=0.02 CONVERSION STANDARD	nt condition: Good Needs representation: Good Replaced Re	NFORMATION Int condition: Good Replaced Needs repair correct reading: Not measured ppm Inter: 2-inch 4-inch 6-incts GINFORMATION If depth 19.30 ft Bottom: Hard Soft or the water 1.20 ft Intake Depth (BTOC) 13 ft Bottom: Hard Soft or the water 1.20 ft Intake Depth (BTOC) 13 ft Bottom: Hard Soft or the water 1.20 ft Intake Depth (BTOC) 13 ft Bottom: Hard Soft or the water 1.20 ft Intake Depth (BTOC) 13 ft Bottom: Hard Soft or the water 1.20 ft Intake Depth (BTOC) 13 ft Bottom: Hard Soft or the water 1.20 ft Intake Depth (BTOC) 13 f	Note Note Needs repair Needs replacement Needs replaceme	NFORMATION	Needs repair



Well I.D. Number: Mwo6

Date 8-	26-19		074			Personnel:_	RAIT	00 -W	
Monumen Well cap Headspac Well diam	e reading: leter:	: \(\sum \) \(\sum \	od Necod Report measured	4-inch	ir Needs re ppm 6-in	placement Och O	Water in Surface V	Monument Water in Well	
PURGING Total well Depth to p Depth to w Casing vol Volume C	GINFORM depth_ roduct vater\0.000	ATION	ft Bottor ft ft Intake ft (H ₂ O) X 3/4"=0.02 g	m: Ha e Depth (: al/ft 1"	ard □ Soft N BTOC) gal/ft =0.04 gal/ft	Not measur Beg = 2"=0.16 gal/	red Screen in Purging We gal. X 3 = ft 4"=0.65 ga	Interval(s): ell:g al/ft 6"= 1.47	 al. gal/ft
Pump typ Bailer typ	e:	taltic [] Centrifuga	ıl De	edicated Blac Drummed	lder □ Non- l ☑ Remedia	tion System	adder Other_ Other	
FIELD P	ARAMETE	RS					Odor and/o	r Sheen:	
Time	Water Level (BTOC)		min)	emp. (°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	11.41			1325	0.590	1.46	6.58	-173	253
000	11.91			-40	0.496	0-78	6.46	-186	164
005	11	_		5.39	0.439	0,64	6.42	-195	163
010	111	_		8.42	0-439	0.63	6.42	-196	156
perspective Purging Co	stabilization	criteria. <i>A</i>	essive measure	ements for ix measur	PH, Conductivi PH, Conductivi PH, Conductivi	ity and Turbidity be recorded.	or Dissolved O	xygen are recordo	ed within their
	er Type	Bottle	Preservative	Field I	Filtered?		Anal	ysis	
		Count		No 0.	45 0.10				
					45 0.10				
					45 0.10				
					45 0.10				
				No O	45 0.10				



Well I.D. Number: MW08

	Project #:		079		Sample I.D. Time: 1 Field Duplicate I.D. Time: Personnel:				
Headspace Well diame	condition ondition: reading: eter:	:	ood	4-inch	ppm 6-in	placement Oo Oo	. □ Water in □ Surface V dor_ her	Monument Vater in Well ——	
PURGING Total well Depth to pr Depth to wa Casing volu Volume Co	depth oduct ater6.0)2	ft Bottor ft ft Intake	n: Ha e Depth (i : gal/ft 1"=	rd	Not measur Begi = 2"=0.16 gal/	red Screen I in Purging Wel gal. X 3 = ft 4"=0.65 gal	nterval(s): ll:ga l/ft 6"= 1.47 g	- al. gal/ft
Bailer type	Perist	taltic [☐ Centrifuga				tion System [ndder Other_ Other	
FIELD PA	RAMETE	RS					Odor and/or	Sheen:	
Time	Water Level (BTOC)		min)	emp. (°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)
1335	16.10	-		1.92	0,670	1.63	6-75	-86	15.7
1340	11	\ \	. /*	1.55	06271	0.73	6.76	-85	148
1345	11			3-	0.671	0.69	6-78	-87	142
+355	er	*			0.671	0,07	0.5 1.50		
4,253									
11,253									
1233								296	
11.253								74	
Stabilization	tabilization on ments:	criteria. A	essive measure A minimum of s				or Dissolved Ox	ygen are recorde	d within their
Stabilization perspective s Purging Cor	tabilization on ments:	criteria. A		ix measure	ements should				d within their
Stabilization perspective s Purging Cor	tabilization on ments:	TION	A minimum of s	ix measure	Piltered?		or Dissolved Ox		d within their
Stabilization perspective s Purging Cor	tabilization on ments:	TION Bottle	A minimum of s	Field F	Filtered?				d within their
Stabilization perspective s Purging Cor	tabilization on ments:	TION Bottle	A minimum of s	Field F No 0.4 No 0.4	Filtered? 45 0.10 45 0.10				d within their
Stabilization perspective s Purging Cor	tabilization on ments:	TION Bottle	A minimum of s	Field F No 0.4 No 0.4 No 0.4	Filtered?				d within their



Well I.D. Number: Ywogi

	me:Qule. Project # <u>:</u> 17-19		074			Field Duplica	te I.D		Time: <u>6780</u> Time:
Monumen Well cap o Headspace Well diam	e reading: ieter:	: ☐ Goo	od	4-inch	ppm 6-in	placement Oc	☐ Water in ☐ Surface V lor_ her	Monument Vater in Well	
Total well Depth to pr Depth to w	depth depth roduct vater \% lume onversion F	- io	ft Botton ft _ft Intake	n: Ha Depth gal/ft 1"	ard Soft[(BTOC)gal/ft '=0.04 gal/ft	Not measur Begi = 2"=0.16 gal/	ed Screen I n Purging Wel _gal. X 3 = ft 4"=0.65 ga	nterval(s): :g /ft 6"= 1.47	_ al. gal/ft
Pump type Bailer type	e:	altic [] Centrifuga	l □ De	edicated Blac	lder ∕□ Non- l ☑ Remedia	tion System	Other	
FIELD PA	ARAMETE	RS					Odor and/or	Sheen:	-
Time	Water Level (BTOC)			emp. (°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)
0720	19.95	(00		5.68	0.856	2.05	6.64	-4	132
0730	11	11	10	5.67	08.38	0.90	6-70	-18	127
0735	11	(1		5.69	0.830	0.10	6-69	- 2 (126
0745	11	(5.65	0.830	0-71	6.70	-21	126
Stabilization perspectives Purging Co	stabilization c	ree succe riteria. A	essive measure minimum of s	ments for ix measur	r pH, Conductiv rements should	ity and Turbidity be recorded.	or Dissolved Ox	l ygen are record	ed within their
	INFORMA	TION							
SAMPLE			Preservative	Field	Filtered?		Analy	ysis	
SAMPLE Contain	er Type	Bottle Count	Preservative						
	er Type	and the second second	Preservative	No 0.	.45 0.10				1
	er Type	and the second second	Preservative	No 0.	.45 0.10				1
	er Type	and the second second	Preservative	No 0. No 0.					



Well I.D. Number: MWIOL Sample I.D. MWWW Time: 1025 Project Name: Coleman or 1 Hydrocon Project #: 2417-079 Field Duplicate I.D.____ Time: Date_ 8-27-16 Personnel: WELL INFORMATION Water in Monument Monument condition: 🛛 Good 🔲 Needs repair Well cap condition:

☐ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well ✓ Not measured Odor Headspace reading: ppm 6-inch Other ____ Well diameter: Varifed well w pump 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 (H₂O) 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_____ Water Disposal: Drummed Remediation System Other Bailer type: FIELD PARAMETERS Odor and/or Sheen: Dissolved **Turbidity** Sp. Cond. Oxygen Water **Purge Rate** Temp. pH Time ORP (±10% or (NTU) (°C) Level (L/min) (mS/cm) (SU) (mV) 0955 ≤1.00 ±0.2) (± 10% or ≤10) (±0.1) (±3%) (BTOC) - 2 204 1-81 6.74 0.860 25.52 100 18.87 25.52 1.04 6-78 + 1 178 11 16.99 0-832 1000 11 +1 0.84 6-76 (77 0.821 wos 11 18.72 16.56 (1 0.820 0.75 0.80 171 WIDID - 1 0810 0.71 6.80 172 11 1215 11 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 Preservative Bottle Field Filtered? Analysis **Container Type** Count No 0.45 0.10 Sampling Comments: from 1.5 m/L



Well I.D. Number: Mull Project Name: Colenz 611 Time: 1310 Sample I.D. Mw11-W Hydrocon Project #: 1017-074 Field Duplicate I.D._____ Time: Date 8-26-19 Personnel: RAH WELL INFORMATION / Monument condition: 🗹 🏿 Good 🔲 Needs repair_____ 🔲 Water in Monument Well cap condition: Good Replaced Needs replacement Surface Water in Well Not measured ppm
2-inch 4-inch 6-in Odor Headspace reading: Well diameter: 6-inch Other____ Comments PURGING INFORMATION Total well depth_____ft Bottom: Mard Soft Not measured Screen Interval(s):_____ Depth to product ft Depth to vater $\frac{19-10}{}$ ft Intake Depth (BTOC) Begin Purging Well: _______ 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_____ Water Disposal:: Drummed Remediation System Other Bailer type: FIELD PARAMETERS Odor and/or Sheen:____ Dissolved Water **Purge Rate** Temp. Sp. Cond. Oxygen pH Turbidity Time ORP (±10% or Level (L/min) (°C) (mS/cm) (NTU) (SU) (mV) ≤1.00 ±0.2) (± 10% or ≤10) (±3%) (± 0.1) (BTOC) 0.72 -89 0.620 14.15 124 1245 100 1927 6-76 127 - 912 0.619 19.43 6-78 1250 11 -92 0.73 1255 0.619 11 1992 6-78 11 " 11 0.618 -97 1200 19.42 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 Bottle Preservative Field Filtered? **Analysis Container Type** Count No 0.45 0.10 Ferrous Iron: 6.5 m3/L Sampling Comments:____



GROUNDWATER

SAMPLE COLLECTION FORM Well I.D. Number: MWIZ Sample I.D. Mwiz -W Time: 1000 Project Name: Coleman Oil Wandthre Time: -Hydrocon Project #: 2017.074 Field Duplicate I.D. 8/22/19 Personnel: CID Date WELL INFORMATION ____ 😾 Water in Monument Monument condition: X Good Needs repair ☑ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well Well cap condition: Not measured Odor ppm Headspace reading: Other____ 4-inch 6-inch Well diameter: 2-inch Comments **PURGING INFORMATION** Total well depth 19.5℃ ft Bottom: Hard Soft Not measured Screen Interval(s): 4-19' 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 Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other _ Bailer type: None Odor and/or Sheen:__ FIELD PARAMETERS Dissolved **Turbidity** Sp. Cond. **Purge Rate** Oxygen pH Water Temp. Time ORP (±10% or (NTU) (°C) Level (L/min) (mS/cm) (SU) (mV) ≤1.00 ±0.2) (± 10% or ≤10) (± 0.1) (±3%) (BTOC) 9.18 40.4 .534 2.32 6.35 7.75 1005 0935 44,1 7,82 6.41 2.34 0938 0.150 19.3 1530 0.42 1.61 7.89 :510 0.30 6.43 37.8 14.2 0941 19.1 0.25 6.41 29.3 1.41 0944 7.98 ,492 0.20 6.40 27.5 1.95 19.2 .486 0947 8.05 8.12 19.2 6.32 31.7 1.33 0.18 0950 6841

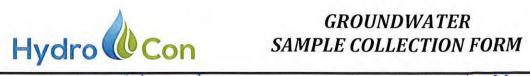
Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded. **Purging Comments:**

CVV

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 ml VOA	5	1+01	No 0.45 0.10	GK, BTEK, RSK 175
1 L omber	1	ital	No 0.45 0.10	Dx .
	2	-	No 0.45 0.10	Nitratrate, Alta, Sult,
250 ml poly	1	HNO3	No 0.45 0.10	Mn
			No 0.45 0.10	

Ferrous Iron: 0.0 mg/L Sampling Comments:_____



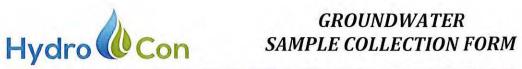
Well I.D. Number: Mw 1312

WELL INI Monument Well cap of Headspace Well diame Comments	t condition condition: creading: eter:	: ☑ Go ☑ Go ☑ No ☐ 2-	ood Ne ood Re ot measured inch	eds repa placed 	irNeeds re ppm 6-in	eplacement	☐ Water in M ☐ Surface Wa lor her	Ionument ater in Well —	
PURGING Total well Depth to pr Depth to wa Casing volu Volume Co	depth oduct= ater 7.6	- :2	ft Botton ft ft Intake	m: Ha e Depth ({ gal/ft 1"	ord □ Soft [BTOC) gal/ft =0.04 gal/ft	Not measur Begi = 2"=0.16 gal/	red Screen In n Purging Well: gal. X 3 = ft 4"=0.65 gal/	terval(s): 	_ al. gal/ft
PURGING Pump type Bailer type	Perist	altic [Centrifuga	al 🗌 De isposal::[dicated Blad	dder □ Non- d ☑ Remedia	Dedicated Blad tion System	lder Other_] Other	
FIELD PA	RAMETE	RS					Odor and/or S	Sheen:	
Time 1100 1105 1110 1115 1120	Water Level (BTOC) 7-89 7-89	(L/	(min)	Cemp. (°C)	Sp. Cond. (mS/cm) (±3%) 0.619 0.615 0.615 0.615	Dissolved Oxygen (±10% or ≤1.00 ±0.2) 1.05 0-77 0.48 0.54	pH (SU) (±0.1) (-88 27.05 7.09 7.09	ORP (mV) -87 -89 -91	Turbidity (NTU) (± 10% or ≤10) (5 0) 1 4 2 (5 0) 1 3 4
1120	(()'	8.50	0.075	0 3 1			
perspective s Purging Con	tabilization c nments:	riteria. A	A minimum of s	six measur	ements should	ity and Turbidity be recorded.	or Dissolved Oxyş		d within their
Containe	r Type	Bottle Count	Preservative	No 0.4	45 0.10 45 0.10 45 0.10 45 0.10		Analys	sis	



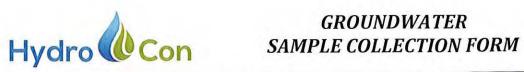


Hydrocon	me:. <u>Coler</u> Project# <u>:</u> [6-19	2017-0	574	_		Sample I.D. 1 Field Duplica Personnel: 1	1014. w nte I.D		Time: <u>(2 5</u> Time:
Monumen Well cap o Headspace Well diam	e reading: eter:	:	od	4-inch	airNeeds re ppm 6-in	pplacement	☐ Water in I ☐ Surface W lor her	Monument Vater in Well	
PURGINO Total well Depth to po Depth to w Casing vol Volume Co	depth depth roduct ater_& ume onversion I	ATION	ft Botto _ft _ft Intak _ft (H ₂ O) > 3/4"=0.02 ;	m: He	ard Soft [(BTOC)gal/ft "=0.04 gal/ft	Not measur Begi = 2"=0.16 gal/	red Screen In n Purging Wellgal. X 3 =_ ft 4"=0.65 gal	nterval(s): ::	al. gal/ft
Pump type Bailer type	e:	taltic [Centrifug	al 🔲 D isposal:	edicated Blac :[] Drumme	dder □ Non- d ☑ Remedia	tion System [dder Other_ Other Sheen:	
Time	Time Water Level (BTOC) Purge Rate (1/min) (90)				Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1150 1155 1200 1205 1210	37.75	100		7.26 8-76 8-61 8.55	0.663	1.76 0.83 6.66 0.62 6.63	6.93 6.83 6.83 6.83	-86 -86 -89 -90 -90	190 189 177 172 171
perspective Purging Co	stabilization mments:	criteria. A	essive measur a minimum of	ements fo	or pH, Conductiv	ity and Turbidity be recorded.	or Dissolved Ox	ygen are record	ed within their
	inform/ er Type	Bottle Count	Preservative	Field	Filtered?		Analy	/sis	
Contain		Count		No (0.45 0.10				



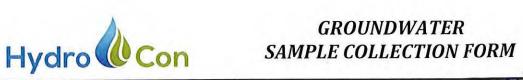
Well I.D. Number: M.WI6

Hydrocon		100 + 105			Sample I.D Field Duplica Personnel:	ate I.D		_Time: <u>+Z 50</u>
Monumer Well cap Headspac Well diam	condition: ce reading:	Good [Good [Good [Not meas 2-inch	Replaced	☐ Needs re ppm	eplacement Od Od	☐ Surface V lor	Water in Well ——	
Total well Depth to p Depth to w Casing vol	oroduct water9.3 olume	9.15 ft - ft 82 ft 1851 7.33 ft (H	Intake Depth	(BTOC) <u>1</u>	Not measur Begii = 12.56 2"=0.16 gal/i	n Purging We	1157 37.68 g	 gal.
Pump typ Bailer typ	pe 🗵 Perista pe:	Wa	rifugal 🔲 D	edicated Blac	dder □ Non- d ☑ Remedia	tion System	adder Other Other r Sheen:^	
Time	Water Level (BTOC)	Purge Rate (L/min)	Temp.	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1200 (203 (206 1209 1207	9.95 10.04 10.12 10.19	0.195	70.1 19.0 18.9 18.9	, 754 , 740 , 738 , 735 , 731	2.16 1.06 1.12 1.21 1.36	6.55 6.54 6.56 6.56 6.56	81.3 83.6 81.6 80.1 82.1	2.50 125 1.59 1.44 3.60
1215 1218 1221 1224	10.36		19.0 19.1 19.0 18.9	· 728 • 727 • 726 • 724	1.96	6.56 6.56 6.55	79.5 82-0 92.2 86-0	2.5+ 1.59 2.19 1.75
Stabilization perspective Purging Co	stabilization cr	ree successive m riteria. A minimu	easurements fo	or pH, Conductivi	ity and Turbidity be recorded.	or Dissolved Ox	kygen are record	led within their
	INFORMAT	TION Bottle Preserv	vative Field	Filtered?		Analy	ysis	
16 ml 16 amb 250 ml	ber roly		No 0 No 0 No 0	0.45 0.10 0.45 0.10 0.45 0.10 0.45 0.10 0.45 0.10	WE,	BTEK, RSK DX Houte, Allic, My	(175 , Sulf	
Sampling (Comments:		Ferron	s Iron	Field Kit:	0.0 mg	L	



Well I.D. Number: MW17W

Hydr	ect Name:. <u>C</u> rocon Project # e&	#: 2017-	074		e	Sample I.D. Field Dupli Personnel:	icate I.D	MWIOT-W CO	Time: 1420 Time: 1430
Moni Well Head Well	LL INFORMA' nument condition ll cap condition dspace reading l diameter: nments	on: Goo n: Goo g: No	t measured nch	L4-inch	ppm	ich 🗍	Odor Other	er in Monument ace Water in Wel	1
Total	RGING INFOR al well depth th to product th to water_ ng volume ime Conversion	29.41	ft Botton	n: Ha Depth (. <u>0.65</u> gal/ft 1"	BTOC) IC gal/ft = 0.04 gal/ft	Not meas $\frac{1}{2}$ Be $\frac{1}{2} = \frac{1}{2}$ 2"=0.16 ga	ured Scr egin Purginç gal. X .l/ft 4"=0.6	reen Interval(s):_ g Well:1356 3 =29.13 65 gal/ft 6"= 1.47	9 - 29' gal. 7 gal/ft
Pum _j Baile	er type:	ristaltic [Centrifuga	ıl De	edicated Blac	lder □ No 1 🗷 Remed	liation Syst	ed Bladder Other tem Other nd/or Sheen:	
11-14	me Water Level (BTOO	r Purge		'emp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)		ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
135	9 14.51 12 14.57 15 14.53 18 14.53	2 0.0	19. 19.; 70 19. 18.	2	.916 .912 .911 .913	0.86 0.31 0.23 0.21 0.18	6.02 6.02 6.02 6.02 6.03	-97.8 Nov.b 2 -102.6	55.4 50.6 52.4 47.7 44.5
persp	lization achieved i pective stabilizatio ging Comments:_	on criteria. A	essive measure minimum of s	ements for six measur	rements should	rity and Turbid	Α.	ved Oxygen are recor	ded within their
	APLE INFORM		Preservative	Field	Filtered?		,	Analysis	
40 1 hv 250 25	oml VoA	Count 5 × 2 1 × 2 2 × 2 1 × 2	Hey Hey	No 0. No 0. No 0. No 0.	.45 0.10 .45 0.10 .45 0.10 .45 0.10 .45 0.10		X, BTEX DX I i trate, My		



	Cor		.1	Sa	mnle I D			mber: MW Time:
	. <u>Coleman</u> ject # <u>: 2</u>				ield Duplicat	eID	-	Time:
	Jecc #				ersonnel:		CD	
				73.1	ALL MINNING -			
WELL INFOR								
Ionument co	ndition: 🛚 🗘 G	ood 🔲 Nee	ds repair			Water in I	Monument	
Well cap cond	dition: 🔀 G	ood 🔲 Rep	laced 🔲 Ne	eds repla	acement	∐ Surface W	ater in Well	
leadspace rea	ading: N	ot measured		ppm		or		
Vell diameter	:: L 2	-inch 🔼	4-inch	6-inch	☐ Oth	ier	-	
omments				No.				
URGING IN	FORMATIO	V						
otal well dep	oth 31.48 act 30.45 e	ft Botton	n: 🗌 Hard 📗] Soft 🔲 I	Not measure	ed Screen Ir	nterval(s):	11-31
epth to produ	ct	tt tt Intake	Depth (BTOC	1 29'	Regin	Puraina Well		
epin to water.	50, (3	ft (H ₂ O) X	0.65	7) gal/ft =	Dogiii	gal X 3 =	a	— al.
asing volunie	ersion Factors	$\frac{1}{3}$ /4"=0.02 g	al/ft 1"=0.04	gal/ft 2	"=0.16 gal/ft	4"=0.65 gal	/ft 6"= 1.47	gal/ft
ordine conve	2131011 1 400013	. 5/1 -0.02 6	ai/10 1 -0.0 1	gar/re 2	0110 801/11		/ - z . z	8 7
URGING/D	ISPOSAL ME	THOD						
ump type [Peristaltic	Centrifuga	Dedicate	ed Bladde	er Non-D	edicated Bla	dder Other_	
Bailer type:		Water Di	sposal:: Dru	ummed [Remediat	ion System [Other	
FIELD PARA							Sheen:	
TELD TAKE	IVILI LIG				Dissolved	The state of the s		4 1 2 2 2 2 2 2
Time V	Water Pur	ge Rate To	emp. Sp. C	Cond.	Oxygen	рН	ORP	Turbidity
The state of the s				(/cm)	(±10% or	(SU)	(mV)	(NTU)
	BTOC)	/		3%)	≤1.00 ±0.2)	(±0.1)	(,)	(± 10% or ≤10
		1						
		116)	Clin	De.			
					1			
								1 111 1
tabilization achi	ieved if three suc	cessive measure	ments for pH, Co	onductivity	and Turbidity	or Dissolved Oxy	ygen are record	ed within their
erspective stabi	ilization criteria.	A minimum of S	x measurement	s siloulu be	recorded.			
urging commi	circs							
SAMPLE INF	FORMATION							
	I n at	I no secondo	p: 11 p24	.10		4 - 91		
Container 7	Type Bottle	Preservative	Field Filtere	ed?		Analy	SIS	
	The second second	1401	No 0.45 0		Gx,	BTEK, RS	SK 175	
HOMI VOA	1	Hel	No 0.45 0			DX		
			No 0.45 0		N-10	ter Alpala	ity, Sulfato	2.5
L amber					IA LI	A THING OF	1	~
HOMI VOA Lamber 150 ml pol 1250 ml pol	4 2	HNO3	No 0.45 0 No 0.45 0	.10	- Wi Fil	Mn	, , , , , , , ,	



Well I.D. Number: MW 20 Project Name: Colemn Oil Wantchie MW20-W Time: 07-70 Sample I.D. Hydrocon Project #: 2017 - 074 Time: Field Duplicate I.D. CD Date Personnel: WELL INFORMATION Monument condition: X Good Needs repair _____ 🔀 Water in Monument ☑ Good ☐ Replaced ☐ Needs replacement Well cap condition: ☐ Surface Water in Well Not measured Headspace reading: ppm Odor Well diameter: 2-inch Other_ 4-inch 6-inch 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 25.02 ft Intake Depth (BTOC) 28 Begin Purging Well: 0649 Casing volume $\frac{1.48}{}$ ft (H₂O) X $\frac{0.65}{}$ gal/ft = $\frac{2.91}{}$ gal. X 3 = $\frac{8.73}{}$ 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 Odor and/or Sheen: Light setre oder FIELD PARAMETERS Dissolved Time Water **Purge Rate** Temp. Sp. Cond. Oxygen **Turbidity** pH ORP (±10% or Level (L/min) (°C) (mS/cm) (NTU) (SU) (mV) ≤1.00 ±0.2) (± 10% or ≤10) (BTOC) (±3%) (± 0.1) 0.64 0654 26-20 16.7 1991 -16.6 5.87 24.8 . 998 0657 25.28 16.4 0.35 5.93 -29.2 6.79 25.33 0.135 . 993 16.3 85.0 5,94 -33,0 6.47 07-00 25.38 5.98 16.3 997 5.96 -35.2 0703 0.24 25.42 ,997 5,96 0706 16.3 0.23 -36.6 5.87 5.97 070 16.3 .997 25.46 7,08 0.22 -37.4 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. Trace Adust on top water column during Purging Comments: SAMPLE INFORMATION Preservative Rottle Field Filtered? **Container Type Analysis** Count 40ml VOA No 0.45 0.10 5 GX, BTEX, RSK 175 HCI 1 L amber No 0.45 0.10 1 HCI 250 ml poly 2 No 0.45 0.10 Nitrate, Alk, Sulf No 0.45 0.10 HN03 250 ml soky 1 No 0.45 0.10 Iron: 5.0 mol ELLOUS Sampling Comments:



Well I.D. Number: Tw2 ! Time:0845 Sample I.D. MWSI-W Project Name: 2017-074 Hydrocon Project #: 2017-074 ______Time:_____ Field Duplicate LD.___ Personnel: Date 8-27-19 WELL INFORMATION Monument condition: \(\square\) Good \(\square\) Needs repair_____ ☐ Water in Monument Monument condition: ☐ Good ☐ Needs repair ☐ Water in Monument

Well cap condition: ☐ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well Odor Headspace reading: Not measured _____ ppm 4-inch 6-inch Other 2-inch Well diameter: 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 (H₂O) 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 Water Disposal:: Drummed Remediation System Other Bailer type: Odor and/or Sheen:_____ FIELD PARAMETERS Dissolved Turbidity **Purge Rate** Sp. Cond. Oxygen Water Temp. pH Time ORP (±10% or (NTU) (°C) (mS/cm) (L/min) (SU) Level (mV) ≤1.00 ±0.2) (± 10% or ≤10) (±3%) (± 0.1) (BTOC) 0.813 131 0820 20.97 1,94 6-71 100 16.99 6-64 129 11 0.812 1.18 0825 11 16.95 6.64 127 11 11 0.813 0830 16-81 1.07 11 6-64 158 11 0.812 0835 16.80 1,03 top-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 Bottle Preservative Field Filtered? **Analysis Container Type** Count No 0.45 0.10 Sampling Comments: Jun 20 mg/L



Well I.D. Number: MUZ?

Sample I.D. Mw23-w Time: 0930 Project Name: Coloman Oil Field Duplicate I.D.____ Time: Hydrocon Project #: 2017-074 Personnel: RAM Date 8-26-19 WELL INFORMATION Water in Monument Monument condition: 🗹 🌠 ood 🔲 Needs repair___ Good Replaced Needs replacement Surface Water in Well Well cap condition: ☐ Not measured / _____ ppm Odor Headspace reading: 2-inch 4-inch 6-inch Other Well diameter: Comments __ PURGING INFORMATION Total well depth_____ft Bottom: Hard Soft Not measured Screen Interval(s):_____ Depth to water N-41 ft Intake Depth (BTOC) Begin Purging Well: Casing volume gal/ft = gal. X 3 = N-41Volume 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 Water Disposal:: ☐ Drummed ☐ Remediation System ☐ Other _____ Bailer type: Odor and/or Sheen:___ FIELD PARAMETERS Dissolved **Turbidity** Temp. Sp. Cond. Oxygen **Purge Rate** pH Water ORP Time (NTU) (±10% or (L/min) (°C) (mS/cm) (SU) Level (mV) ≤1.00 ±0.2) (± 10% or ≤10) (±3%) (± 0.1) (BTOC) 136 0-576 -118 100 18.55 1.18 6.23 11.50 0910 -120 6-28 136 18.62 0-571 0-73 11.50 11 0915 -117 6-29 18.61 0.59 135 0,571 11.52 0920 11 6.29 132 0.69 0975 18.59 . 11 11 0.574 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 Bottle Preservative Field Filtered? **Analysis Container Type** Count No 0.45 0.10 GX BTIEX 110A HLL 5 No 0.45 0.10 IL Aulur HU 1 2 Itom L Plue No 0.45 0.10 250 NL Police Nitrice 1 No 0.45 0.10 No 0.45 0.10 Ferrous Iron: 0.5 mg/L Sampling Comments:



Well I.D. Number: Mw24

	me:. <u>Cole</u> Project # <u>:</u> ไ٦-19	2017	-074			Field Duplica Personnel:	MU29-W Ite I.D KAH		Time: <u>OG3</u>	
Monumen Well cap Headspac Well diam	condition: e reading: eter:	n: □ G □ G □ N □ 2-	ood Re	placed L l 4-inch	Needs re ppm 6-in	placement	Surface V	Vater in Well		
PURGING Total well Depth to p Depth to w Casing vol Volume Co	depthroductater27 umeonversion	IATION 03 Factors:	Nft Botto ft ft Intak ft (H ₂ O) X : 3/4"=0.02 {	m: Hard e Depth (BT < gal/ft 1"=0	□ Softᡚ OC)gal/ft .04 gal/ft	Not measur Begin 2"=0.16 gal/	ed Screen I n Purging Wel _gal. X 3 = ft 4"=0.65 ga	nterval(s): ll:ga l/ft 6"= 1.47 g	.l. ral/ft	
Bailer type	e MPeris e:	taltic [Centrifuga	al Dedio	cated Blad Drummed	lder / Non-l l Memedia	tion System	ndder Other_ Other		
FIELD PA	ARAMETI	ERS				T	Odor and/or	Sheen:		
Time	Water Level (BTOC)	(L)	min)	(°C) (p. Cond. mS/cm) (±3%)	Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)	
0905	27-10	10			0.88C	1.89	6.82	~22	139	
0915	11	-	170		0.884	1.00	6.81	- 23	136	
0910	CI	((\ \	6.73	0.884	1,01	6-81	-22	140	
									l within their	
perspective s Purging Co	stabilization	criteria. <i>I</i>	essive measure A minimum of s			ty and Turbidity be recorded.	or Dissolved Ox	ygen are recorded		
perspective serspective serspective serving Con	stabilization on ments:	criteria. <i>I</i>			ents should					
perspective s Purging Con	stabilization on ments:	TION	A minimum of s	Field Filt	ents should		or Dissolved Ox Analy			
perspective serspective serspective serving Cor	stabilization on ments:	TION Bottle	A minimum of s	ix measureme	ered?					
perspective serspective serspective serving Cor	stabilization on ments:	TION Bottle	A minimum of s	Field Filto No 0.45 No 0.45 No 0.45	ered? 0.10 0.10 0.10					
perspective s Purging Cor	stabilization on ments:	TION Bottle	A minimum of s	Field Filto No 0.45 No 0.45	ered? 0.10 0.10 0.10 0.10 0.10					



Hydrocon	me:. 2 C	2019-	णप	_			nte I.D —	vveii i.D. Nui	mber: Mw25 Time: 1100 Time:
Monumer Well cap Headspac Well diam	e reading: ieter:	: Good Good Not 2-in	d Needd Rep	/ 4-inch	nir_ Needs re ppm 6-in	placement Oc Och Ot	☐ Water in ☐ Surface V lor her	Monument Vater in Well ——	
Total well Depth to p Depth to w Casing vo	roduct /ater lume		_ft _ft Intake _ft (H ₂ O) X	Depth ((BTOC)	Not measur Begi = 2"=0.16 gal/	n Purging Wel	II:g	_ al.
Pump typ	G/DISPOS e ☑ Peris e:	taltic \square	Centrifugal	☐ D∈ posal::	edicated Blac	lder/ 🔲 Non- l 🚺 Remedia	Dedicated Bla tion System	adder Other_ Other_	
FIELD P	ARAMETE	RS					Odor and/or	r Sheen:	
Time	Water Level (BTOC)	Purge (L/m		mp. °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)
1055	2531	(20		92	0.46	02,48	7-13	+10	140
1100	IX.	11		95	0-758	0.88	7-41	+10	142
1105	٠,	(1		97	0.755	0.78	7.43	412	136
Stabilization perspective Purging Co	stabilization of	hree success	sive measurer ninimum of si	nents for x measur	r pH, Conductiv rements should	ity and Turbidity be recorded.	or Dissolved Ox	tygen are record	ed within their
SAMPLE	INFORMA	TION							
Contain	er Type	Bottle I	Preservative		Filtered?		Anal	ysis	
				No 0.	.45 0.10 .45 0.10				
				No 0.	.45 0.10 .45 0.10				



Well I.D. Number: Mw 26

Hydrocon Date	me: <u> </u>	2017-6	74			Sample I.D Field Duplic Personnel:_	ate I.D		_Time: _Time:
Monumer Well cap Headspac Well diam	e reading: leter:	:	t measured	4-inch	ppm	placement 0 0 Och 0	dor	n Monument Water in Well 	
Total well Depth to p Depth to w	GINFORM depth roduct vater25 lume onversion I	.84	ft Bottor ft ft Intake ft (H ₂ O) X 3/4"=0.02 g	al/ft 1"=	·d	Not measur Beg = 2"=0.16 gal/	red Screen in Purging We gal. X 3 = ft 4"=0.65 ga	Interval(s): ell:g al/ft 6"= 1.47	al. gal/ft
Pump type Bailer type	e:	taltic [Γ ΗΟD] Centrifuga	l Dec	licated Blac] Drummed	lder □ Non- l □ Remedia	Dedicated Bl tion System	adder Other_ Other	
FIELD P	ARAMETE	RS					Odor and/o	r Sheen:	
Time	Water Level (BTOC)	(L/n	min)	(°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)
1135	25.95	101			0.931	1-79	7-17	19	150
1145		1	1-	7-35	0.880	0-17	7.13	417	139
1150	- (1	()		7-32	0-860	0.79	7.13	417	156
1130		Water Street							
1130									
1130									
1130									
Stabilization perspective: Purging Con	stabilization o	eriteria. A	ssive measure minimum of si	ments for p x measure	H, Conductivi nents should	ty and Turbidity be recorded.	or Dissolved Ox	xygen are recorde	ed within their
Stabilization perspective : Purging Con	stabilization on the stabilization of the stabiliza	TION Bottle	ssive measure minimum of si	ments for p	ments should	ty and Turbidity be recorded.			ed within their
Stabilization perspective: Purging Con	stabilization on the stabilization of the stabiliza	TION	minimum of si	x measurer	nents should	ty and Turbidity be recorded.	or Dissolved Ox Analy		ed within their
Stabilization perspective : Purging Con	stabilization on the mments:	TION Bottle	minimum of si	Field Fi No 0.4	ltered? 5 0.10 5 0.10	ty and Turbidity be recorded.			ed within their
Stabilization perspective : Purging Con	stabilization on the mments:	TION Bottle	minimum of si	Field Fi	ltered? 5 0.10 5 0.10 5 0.10	ty and Turbidity be recorded.			ed within their



MW27

Well I.D. Number:

Date	Project # <u>:</u> 28 - 14	2017 6					ate I.D		Time:
Well cap of Headspace Well diam	t condition condition: e reading: eter:	n:	ood IIR	eplaced d 4-inch	I Needs re	placement	_ □ Water in M □ Surface Wa dor_ ther _	ater in Well	8
PURGING Total well Depth to pr Depth to we Casing volution	depth	ATION	ft Bott ft Inta ft (H ₂ O) 3/4"=0.02	om:	ard Soft (BTOC)gal/ft "=0.04 gal/ft	Not measur Beg = 2"=0.16 gal/	red Screen Int in Purging Well: gal. X 3 = ft 4"=0.65 gal/	terval(s): g ft 6"= 1.47	al. gal/ft
Bailer type	Peris	taltic [Centrifug	gal 🔲 De Disposal::	edicated Blac	lder │ Non- l ☑ Remedia	Dedicated Blad ation System	der Other_] Other	
FIELD PA	ARAMETE	ERS					Odor and/or S	heen:	
Time	Water Level (BTOC)		ge Rate (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)
	24.11	io	i d	7.23	0.842	1-87	6.85	- 23	107
49+				5.47	0.806	1. 11	6-89	-30	101
0700	7-18	- (000				
0700	7-18	ι	(6.42	0.702	1.04	6- 88 88	-35	110
0700 0705 0710	7-19	1	1	16.42	0.707	0-98	6-808	-35	106
0700	7-18	ι	1	6.42	0.702	0-98	6-8088 6-90	-35 -37	103
0705	7-19	1	1	6.42	0.702	0-98	6-808	-35	106
Stabilization perspective s	achieved if the stabilization comments:	hree succeriteria. A	essive measur	6-42 (1.42 (1.436 (1.36)	0.702	1-04 0-98 0-63 0-63 ty and Turbidity	6-8088 6-90	-35 -37 -37 -36	103
Stabilization perspective s Purging Cor	achieved if the stabilization on ments:	hree succeriteria. A	essive measur	rements for	0.707 0.771 0.747 0.745	1-04 0-98 0-63 0-63 ty and Turbidity	G. SE	- 35 - 37 - 36 en are recorde	103
Stabilization perspective s	achieved if the stabilization on ments:	hree succertieria. A	essive measu	rements for six measure	O.707 O.747 O.745 r pH, Conductivirements should	1-04 0-98 0-63 0-63 ty and Turbidity	6-8288 6-80 6-90 0-90	- 35 - 37 - 36 en are recorde	103
Stabilization perspective s Purging Cor	achieved if the stabilization on ments:	hree succeriteria. A	essive measu	rements for six measure. Prield No 0.	pH, Conductivirements should	1-04 0-98 0-63 0-63 ty and Turbidity	G. SE	- 35 - 37 - 36 en are recorde	103
Stabilization perspective s Purging Cor	achieved if the stabilization on ments:	hree succeriteria. A	essive measu	rements for six measure. Pried No 0. No 0.	777 0.747 0.745 0.745 rpH, Conductivirements should Filtered?	1-04 0-98 0-63 0-63 ty and Turbidity	G. SE	- 35 - 37 - 36 en are recorde	103
Stabilization perspectives Purging Cor	achieved if the stabilization on ments:	hree succeriteria. A	essive measu	rements for six measure. Priedd: No 0. No 0. No 0.	pH, Conductivirements should	1-04 0-98 0-63 0-63 ty and Turbidity	G. SE	- 35 - 37 - 36 en are recorde	103



SAMPLE COLLECTION FORM Well I.D. Number: Mw 25 Sample I.D. MW 28-W Time: 1300 Project Name: Coleman Oil Wenatcher Hydrocon Project #: 2017
Date 8/27/19 _Time:_ = Field Duplicate I.D._____ 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 2-inch 4-inch 6-inch Other Well diameter: Vaulted well I/ system pump Comments PURGING INFORMATION Total well depth 38-74 ft Bottom: ☐ Hard ☐ Soft 🗹 Not measured Screen Interval(s): 13-38' Depth to product_____ft 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_____ Water Disposal:: ☐ Drummed 🔀 Remediation System ☐ Other Bailer type: Odor and/or Sheen: V faint petro alor FIELD PARAMETERS Dissolved **Turbidity Purge Rate** Sp. Cond. Oxygen Water Temp. Time pH ORP (±10% or (NTU) (L/min) (°C) (mS/cm) Level (SU) (mV) ≤1.00 ±0.2) (± 10% or ≤10) (±3%) (± 0.1) (BTOC) .985 44.9 6.17 -66.1 29.50 1.11 17.6 1233 22.9 981 6.15 -63.2 17.1 1236 25.56 0.418 16.8 -62.1 25.63 . 976 0.35 6.15 0.140 16.8 1737 15.6 25-71 .977 0.29 -62.0 16.7 6.15 1242 12.2 -61.8 25,73 16.6 .976 0.24 6-16 1245 16-6 0.22 1248 75.78 975 6.16 -61.6 11.8 30€ 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	5	Ha	No 0.45 0.10	Gx, BTEX, RSK 175
1 h amber	1	Ita	No 0.45 0.10	Dx
	2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250 ml poly	Ī	HNO3	No 0.45 0.10	Mp
119			No 0.45 0.10	

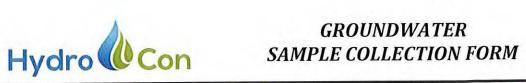
Sampling Comments:	Ferrous Iron!	1.5 molu



Well I.D. Number: MW29 Sample I.D. MW29-W Time: -Project Name: Colongan Oil Wenotine Field Duplicate I.D. Hydrocon Project #: 2517-074

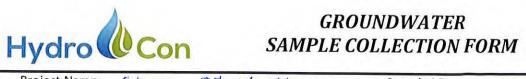
Date 227/19 Time: CO Personnel: WELL INFORMATION Monument condition: ☐ Good ☐ Needs repair ☐ Water in Monument ☐ Well cap condition: ☐ Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well Headspace reading:

Not measured ppm □ Odor Well diameter: □ 2-inch ☑ 4-inch □ 6-inch □ Other □ Othe Well diameter: Varilted well of system pump Comments ____ **PURGING INFORMATION** Total well depth 39.11 ft Bottom: ★ Hard Soft Not measured Screen Interval(s): 14 ~ 39.1 Depth to product 736.08ft
Depth to water 36.08ft
Intake Depth (BTOC) 38'
Begin Purging Well: 1059 Casing volume _____ft (H_2O) X _O.65 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 _____ Odor and/or Sheen:____ FIELD PARAMETERS Dissolved **Turbidity Purge Rate** Sp. Cond. Oxygen Temp. pH Time Water ORP (±10% or (NTU) (L/min) (°C) (mS/cm) (SU) Level (mV) ≤1.00 ±0.2) (± 10% or ≤10) (±3%) (± 0.1) (BTOC) -100.9 1,76 3.67 6.38 25,7 1114 -103.5 6.40 2.74 25.3 3510000 1129 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 Bottle Preservative Field Filtered? **Analysis Container Type** Count No 0.45 0.10 Sampling Comments:_____



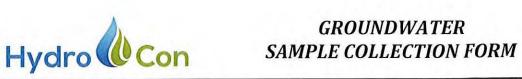
Well I.D. Number: MW30

Hydrocon	ne:. <u>Colem</u> Project # <u>:</u> &/27	2017	-074	chee		Sample I.D Field Duplica Personnel:	MW30 te I.D	-W 1	Fime: <u>)020</u> Fime: <u>-</u>
Monument Well cap of Headspace Well diamo	reading: eter:	☐ Go ☐ No ☐ 2-i	t measured nch 🔣	4-inch	ppm 6-in	placement	lor her	_	
Total well Depth to pr Depth to we	ime 4	7.79	_ft Botton _ft _ft Intake _ft (H ₂ O) X	0.65	gai/it	Not measur Begi 3.17 2"=0.16 gal/	gal. A 3 =_	7.51 ya	U.
Pump type	A/DISPOSA Perist	altic [1 Centrifuga	l De	dicated Blac	lder ⊠Non- l ⊠ Remedia	tion System L	Other	ž.
FIELD PA	RAMETE	RS					Odor and/or	Sheen: organ	ic shor/sheer
Time	Water Level (BTOC)			e mp. [°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)
0958	35,44		16		1.18	2.54	6.31	108.0	OK
1001	35,49	.70.	16.		1.17	0.46	6.28	-132.5	612 012
1004	35.67	0.13		7	1.13	0.36	6.27	-146.4	902
1010	35,72			.2	1.18	0.37	6.28	-149,4	735
			San	npl	e (w	102	D		
perspective	stabilization c	riteria. A	essive measure minimum of s	ix measur	ements should	ity and Turbidity be recorded.	or Dissolved Ox	ygen are recorde	
SAMPLE	INFORMA	TION							
Contain	er Type	Bottle Count	Preservative	Field l	Filtered?		Analy		
40m/	10A	5	1401		45 0.10	(b- x	BTEX ,	125K 175	
1 L w	mber	ı	1406		45 0.10		Dx	- IN	
250 ml		2	- 10	1000	45 0.10		Vitrate, Alla	L, Sult	
250 m	poly	(HNO3		45 0.10 45 0.10				
Sampling C	omments:					on: 3.5 "	ng/L		



Well I.D. Number: MM/31

Hydrocon	Project #:_	2017-074 119	Wenatchar 1				-	_Time:
Monumen Well cap o Headspace Well diam	condition: e reading:	: ☑ Good ☑ Good ☑ Not mea ☑ 2-inch	∟ Replaced asured _	l ∐ Needs re ppm	eplacement	☐ Surface \ dor	Water in Well	
Total well Depth to pr Depth to we Casing vol	roduct <u> </u>	9.28 ft - ft 74 ft 54 ft (1	Intake Depth	h (BTOC) <u>3</u> 5	Not measur ' Begi = 3.60 : 2"=0.16 gal/	n Purging We	ell: 0745	 aal.
Pump type Bailer type	e Perista e:	W	trifugal 🔲 I	Dedicated Blac ::□ Drummed	dder ⊠Non-l d ⊠ Remedia	tion System	Other	
FIELD PA	ARAMETEI	RS				Odor and/or	r Sheen:	-
Time	Water Level (BTOC)	Purge Rate (L/min)	Temp.	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
0748	33.78		16.2	1.23	2.95	6.413	-74.8	151
0754	33.84		15.6	1.29	0.70	6.40	-100.2	76.3 65.8
0757	34.01	0.160	15.6	1.28	0.42	6.40	-105-0	49.2
0800	34.10		15,4	1, 28	0.39	6.40	-108.4	38.0
			Samo	le C	2 08	10		
Stabilization perspective s Purging Con	stabilization cri	lee successive miteria. A minim	leasurements fo um of six measu	or pH, Conductivi urements should	ity and Turbidity be recorded.	or Dissolved Ox	ygen are recorde	ed within their
SAMPLE I	INFORMAT	ΓΙΟΝ						
Containe	LI IVUC	Bottle Preser	vative Field	Filtered?		Analy	ysis	
4001	100	5 140		0.45 0.10	Ge	ISTEX ISS	SK 175	
1 L am	ber	1 1+0		0.45 0.10		Dx		
250 ml		2 -	1 1	0.45 0.10 0.45 0.10	N:	trater, All	k, Sulf	
750 ,1	Pay	1 HW		0.45 0.10		190		
Sampling Co	omments:		1		ron: 2.5 mg	1.		



Well I.D. Number: MW32

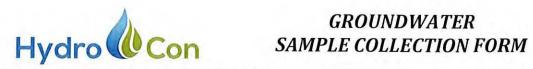
Project N Hydroco Date	Name: on Project # <u>:</u> S	20 b (26/1	07 M	enutelm	ve	Sample I.D Field Duplica Personnel:	te I.D	-	_Time: <u>(3'20</u> _Time: <u>-</u>
Monume Well cap Headspa Well dia	ace reading: imeter:	: ☐ Good Good Good Good Good Good Good Go	t measured nch	4-inch	ppm 6-in	placement Od	or ner		
Total we Depth to Depth to Casing v	product	4.02 - .48	ft Bottom ft ft Intake ft (H ₂ O) X	Depth ((BTOC) <u>17</u>	Not measur Mot measur Begin ' 14.00 2"=0.16 gal/i	n Purging We _gal. X 3 =	ell: 1255	gal.
Pump ty Bailer ty	/pe:	altic [] Centrifugal	l □ De sposal::[dicated Blac Drummed	dder □ Non-l d ☑ Remedia	tion System	Other	
FIELD	PARAMETE	RS					Odor and/o	or Sheen:	Jone
Time	Water Level (BTOC)			emp. (°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)
1258	12.62		19	-11	,825	3.83	6.07	122.1	4.60
1301	12,71		18.		.821	2.99	6.06	126.7	3.02
1304	12.80	0.1	The second secon	-3	.319	2,90	6.07	127.9	4.89
1307	12.90		18.		.820	2.84	6.07	128.2	3.78
1310	12,99		12.	,4	.8/9	2.77	6.07	128.4	3.71
			Sa	~~	le W	1320			
perspectiv	ve stabilization c	criteria. A	essive measurer minimum of si	ments for x measur	pH, Conductive ements should	l ity and Turbidity be recorded.	or Dissolved O	lxygen are record	led within their
	E INFORMA	TION	Preservative	Field	Filtered?		Ana	lysis	
	iner Type	Count	110301144115	July 1					The state of the s
	nl VOA	5	Ha		45 0.10	GX	, BTEX, I		
	umber	(Hol		45 0.10	Al-()	DX	0.15	
	poly	2			45 0.10	Nitrat		Sulp	
250m	of poly	1	HNO3		.45 0.10 .45 0.10		Mn		
Sampling	g Comments:		J.			0.1 mg/L			



Well I.D. Number: BHO - W Sample I.D. BHOI - W Time: 1350 Project Name: Coleman Oil Wannitchee Field Duplicate I.D. MW102 - W Time: 1400 Hydrocon Project #: 2017-074 8/27/19 CD Personnel: Date WELL INFORMATION ☐ Water in Monument Monument condition: K Good Needs repair K Good ☐ Replaced ☐ Needs replacement ☐ Surface Water in Well Well cap condition: ppm Not measured Odor Headspace reading: 6-inch Other____ 2-inch 4-inch Well diameter: Vomitted well w/ system pump Comments **PURGING INFORMATION** Total well depth 32.82 ft Bottom: Hard Soft Not measured Screen Interval(s): 17-32 Depth to product _____ft
Depth to water _____ft ft Intake Depth (BTOC) 27' Begin Purging Well: 1327 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____ Water Disposal:: ☐ Drummed ☑ Remediation System ☐ Other Bailer type: Odor and/or Sheen: mod retro where wisher FIELD PARAMETERS Dissolved Turbidity Oxygen pН **Purge Rate** Temp. Sp. Cond. Time Water ORP (±10% or (NTU) (°C) (mS/cm) Level (L/min) (SU) (mV) ≤1.00 ±0.2) (± 10% or ≤10) (± 0.1) (±3%) (BTOC) 17.4 2.7 0.63 6.27 -820 947 1326 25.21 6.21 -84.3 11.1 1943 0.45 21,1 1329 25,24 0,35 -83.4 9.97 .939 6-18 0.135 25.28 71.15 1332 -83.6 8.82 0.32 6.17 25-31 21.0 1335 ,941 - 83.3 25.33 1939 0.30 6.16 1338 21.0 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	542	1401	No 0.45 0.10	GX BTEX RSK 175
16 cm ber	1×2	HCI	No 0.45 0.10	Dx
250 ml poly	2×2	-	No 0.45 0.10	Nitrate, Alk, Sulf
250 ml pory	1×2	HNO3	No 0.45 0.10	Mn
1019			No 0.45 0.10	

Sampling Comments:	Ferrous Iron: 5.5 moll	
bamping commence		



Well I.D. Number: 31402

Hydrocon		2017	071 Wend -074 7/19				ate I.D	CD _	Time: 0910 Time:
Monumer Well cap Headspac Well diam	e reading: neter:	n: 😡 G 😡 G 🖳 N 🗷 2-	ood Ne ood Re ot measured inch C	4-inc	pair_ l	eplacement	_	n Monument Water in Well	
Total well Depth to p Depth to w Casing vol	roduct /ater lume	35.00 - 2.55 6.45	ft Botton ft ft Intake ft (H ₂ O) X	Dept	h (BTOC) <u>3</u> i6 gal/ft	1.51 Beg	in Purging We	Interval(s):_ ell:	 gal.
Pump type Bailer typ	e:	taltic [☐ Centrifuga	l 🔲 l sposa	Dedicated Bla I:: Drumme	dder ⊠ Non∙ d ⊠ Remedia	ition System	ladder Other	- W/ Sheen
FIELD P.	ARAMETI	ERS					Odor and/o	or Sheen: olor	- W/ Sheen
Time	Water Level (BTOC)			e mp. (°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)
0845	28.76		15	.7	,950	1.89	6.14	-72.9	363
0848	28.92			2	.929	0.52	6.10	-+0.4	121
0851	29.12		16		.924	0.44	6.10	8.55-	74.7
0854	29.35	0,	175 16.	3	1917	0-34	6.10	~75.3	60.1
0857	29.52		16	.2	,913	0.36	6.10	-77.7	46.6
OPPO	24.45		16	- 2	-911	0-37	6.10	-20.3	35.5
			VA.	m	ole a	091	7		
	stabilization		essive measure	ments f	1		or Dissolved O	xygen are record	ed within their
SAMPLE									
Contain		Bottle Count	Preservative	5	l Filtered?		Anal	ysis	
40ml	The state of the s	5	1401		0.45 0.10	Gx,	BTEX, RS	K ITS	
16 ambe)	401		0.45 0.10		DY		
250 ml		2	-		0.45 0.10	Nit	rate, Alle,	Sulf	
250 m	ال المالح	- 1	HN03		0.45 0.10 0.45 0.10		Mn		
72					-	was/.			
Sampling Co	omments:			Ferro	w Iron:	4.0 m3/L			

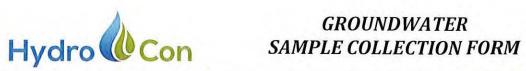


Well I.D. Number: 131403 Time: 0815 Sample I.D. SHO3-W Project Name: Coleman Oil Wencotche Hydrocon Project #: 2017 - 074

Date 2/21/17 Time: -Field Duplicate I.D._____ CD Personnel: 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 2-inch 4-inch 6-inch Other Well diameter: Comments **PURGING INFORMATION** Total well depth 💃 👓 ft Bottom: 🗌 Hard 🔲 Soft 🔀 Not measured Screen Interval(s): 15-30/ Depth to product _______ Depth to water 23 04 ft Intake Depth (BTOC) 27 Begin Purging Well: 0748

Casing volume 6,96 ft (H₂O) X 0.16 gal/ft = 1.11 gal. X 3 = 3.33 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______ Water Disposal:: Drummed 🔀 Remediation System 🗌 Other _____ Bailer type: FIELD PARAMETERS Odor and/or Sheen:___ Dissolved Oxygen Turbidity Water **Purge Rate** Temp. Sp. Cond. Time pH ORP (°C) (±10% or (NTU) Level (L/min) (mS/cm) (SU) (mV) ≤1.00 ±0.2) (±3%) (± 0.1) $(\pm 10\% \text{ or } \le 10)$ (BTOC) -65.7 16.2 1.29 15,9 1.29 6.19 0752 22.41 -70,1 14.1 22.54 15.9 0.56 0755 1,29 6.16 6.16 ~73.4 22.65 14.0 6.36 10.4 1.29 0758 9.57 16-1 0.32 6.16 -77.1 1080 22.81 1-29 0.105 6.16 -79.9 1.29 65.0 0804 22.95 16.1 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: Inger of algee on too of water colonn SAMPLE INFORMATION Bottle Preservative Field Filtered? **Analysis Container Type** Count GX, BTEX, RSK 175 No 0.45 0.10 400ml 1/0A 5 HCI No 0.45 0.10 1 HU 16 comber 2 No 0.45 0.10 Nitrate, Alk, Sulf "Basil 250ml poly No 0.45 0.10 250ml poly 1 HNOE No 0.45 0.10 Sampling Comments: Ferrows Iron: 6.5 ms/L



Well I.D. Number: Rwol

Project Name: Hydrocon Proje Date_\$-28-19	ect #: 2017.	-079	_		Sample I.D Field Duplic Personnel:_	ate I.D.		Time: CKIF
WELL INFORM Monument conditions well cap conditions Headspace read Well diameter: Comments	dition: G tion: G ling: N 2	ood	eds repair_ olaced	Needs rep _ ppm 6-ind	olacement	□ Water in □ Surface V dor ther 3	Monument Water in Well	
PURGING INF Total well depth Depth to product Depth to water_ Casing volume Volume Convers	26.35	ft Botton ft ft Intake ft (H ₂ O) X	Depth (BTC	DC) _gal/ft =	Begi	in Purging We gal. X 3 =	ıll:ga	al. gal/ft
PURGING/DIS Pump type Bailer type:	Peristaltic [☐ Centrifuga	I □ Dedica sposal::□ D	ated Blad Fummed	der/ □ Non- ☑ Remedia	Dedicated Bla tion System	adder Other_ Other	
FIELD PARAN	METERS					Odor and/or	r Sheen:	
0750 26 0750 26 0750 26		/min) (7-1-1 (7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	(n)	. Cond. nS/cm) (±3%) -54.9	Dissolved Oxygen (±10% or ≤1.00 ±0.2) 1-67 1-10 0-97 0-92	pH (SU) (±0.1) 7-16 7-11 7-11 7-ω	ORP (mV) -18 -18 -18	Turbidity (NTU) (± 10% or ≤10) 70.6 97.5
Stabilization achiev perspective stabiliz Purging Comment SAMPLE INFO	ation criteria.		Field Filter No 0.45 No 0.45 No 0.45	red? 0.10 0.10		or Dissolved Ox Analy		d within their
Sampling Comme	nts: I w	Org	No 0.45					

APPENDIX B

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

Apex Laboratories, LLC



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

Wednesday, September 18, 2019 Craig Hultgren HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660

RE: A9H0906 - 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 A9H0906, which was received by the laboratory on 8/29/2019 at 5:35:00PM.

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 Recei	ot Information		
	(See Cooler Recei	pt Form for details)		
Cooler #1	5.3 degC	Cooler #2	1.4 degC	
Cooler #3	3.3 degC	Cooler #4	5.6 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.

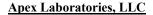




Apex Laboratories

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.

Awa A Zmenyhini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFORMA	ATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01S-W	А9Н0906-01	Water	08/26/19 11:30	08/29/19 17:35
MW03S-W	А9Н0906-02	Water	08/26/19 10:40	08/29/19 17:35
MW06-W	А9Н0906-03	Water	08/26/19 10:20	08/29/19 17:35
MW08-W	А9Н0906-04	Water	08/26/19 14:00	08/29/19 17:35
MW09R-W	А9Н0906-05	Water	08/27/19 07:50	08/29/19 17:35
MW11-W	А9Н0906-06	Water	08/26/19 13:10	08/29/19 17:35
MW12-W	А9Н0906-07	Water	08/26/19 10:00	08/29/19 17:35
MW13R-W	А9Н0906-08	Water	08/26/19 11:30	08/29/19 17:35
MW14-W	А9Н0906-09	Water	08/26/19 12:15	08/29/19 17:35
MW16-W	А9Н0906-10	Water	08/26/19 12:30	08/29/19 17:35
MW17-W	А9Н0906-11	Water	08/26/19 14:20	08/29/19 17:35
MW20-W	А9Н0906-12	Water	08/28/19 07:20	08/29/19 17:35
MW21-W	А9Н0906-13	Water	08/27/19 08:45	08/29/19 17:35
MW23-W	А9Н0906-14	Water	08/26/19 09:30	08/29/19 17:35
MW24-W	А9Н0906-15	Water	08/27/19 09:30	08/29/19 17:35
MW25-W	А9Н0906-16	Water	08/27/19 11:20	08/29/19 17:35
MW26-W	А9Н0906-17	Water	08/27/19 12:00	08/29/19 17:35
MW27-W	А9Н0906-18	Water	08/28/19 07:30	08/29/19 17:35
MW28-W	А9Н0906-19	Water	08/27/19 13:00	08/29/19 17:35
MW30-W	А9Н0906-20	Water	08/27/19 10:20	08/29/19 17:35
MW31-W	А9Н0906-21	Water	08/27/19 08:10	08/29/19 17:35
MW32-W	А9Н0906-22	Water	08/26/19 13:20	08/29/19 17:35
BH01-W	А9Н0906-23	Water	08/27/19 13:50	08/29/19 17:35
BH02-W	А9Н0906-24	Water	08/27/19 09:10	08/29/19 17:35
BH03-W	А9Н0906-25	Water	08/28/19 08:15	08/29/19 17:35
RW01-W	А9Н0906-26	Water	08/28/19 08:15	08/29/19 17:35
MW100-W	А9Н0906-27	Water	08/26/19 10:20	08/29/19 17:35
MW101-W	А9Н0906-28	Water	08/26/19 14:30	08/29/19 17:35
MW102-W	А9Н0906-29	Water	08/27/19 14:00	08/29/19 17:35
190827Blank-W	А9Н0906-30	Water	08/27/19 07:15	08/29/19 17:35
MW10R-W	А9Н0906-31	Water	08/27/19 10:25	08/29/19 17:35
Trip Blank	А9Н0906-32	Water	08/26/19 00:00	08/29/19 17:35

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.

Goast Jamenghini



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID Laboratory ID Matrix Date Sampled Date Received

ANALYTICAL CASE NARRATIVE

Work Order: A9H0906

Preservation Nonconformance: Analyses Cancelled

A temperature excursion occurred during sample storage. Due to a refrigeration malfunction, samples in work order A9H0906 were stored for Alkalinity by SM 2320 B-2011 and Sulfate by EPA 300.0 analysis at room temperature for an unknown period of time.

At client request, these tests were not performed.

Autumn R. Fetty Technical Compliance Officer 09/09/19

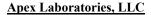
Subcontract

This report is not complete without the attached subcontract laboratory report for RSK 175 from Air Technology.

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.

Doas Somerighini





HydroCon LLCProject:Coleman Wenatchee314 W 15th Street Suite 300Project Number:2017-074

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

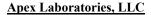
ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	il Hydrocar	bons by NWTP	H-Dx			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW01S-W (A9H0906-01)				Matrix: Wat	er	Batch:	9081504	
Diesel	269		74.8	ug/L	1	08/30/19 23:48	NWTPH-Dx	F-11, F-20
Oil	ND		150	ug/L	1	08/30/19 23:48	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 94 %	Limits: 50-150 %	6 1	08/30/19 23:48	NWTPH-Dx	
MW03S-W (A9H0906-02)				Matrix: Wat	er	Batch:	9081504	
Diesel	114		74.8	ug/L	1	08/31/19 00:08	NWTPH-Dx	F-11
Oil	ND		150	ug/L	1	08/31/19 00:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 90 %	Limits: 50-150 %	6 1	08/31/19 00:08	NWTPH-Dx	
MW06-W (A9H0906-03)				Matrix: Wat	er	Batch:	9081504	
Diesel	1200		74.8	ug/L	1	08/31/19 00:28	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	08/31/19 00:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 89 %	Limits: 50-150 %	6 1	08/31/19 00:28	NWTPH-Dx	
MW08-W (A9H0906-04)				Matrix: Wat	er	Batch:	9081504	
Diesel	1320		75.5	ug/L	1	08/31/19 00:48	NWTPH-Dx	F-13, F-20
Oil	ND		151	ug/L	1	08/31/19 00:48	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 86 %	Limits: 50-150 %	6 1	08/31/19 00:48	NWTPH-Dx	
MW09R-W (A9H0906-05)				Matrix: Wat	er	Batch:	9081504	
Diesel	5880		74.8	ug/L	1	08/31/19 01:08	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	08/31/19 01:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 56 %	Limits: 50-150 %	6 I	08/31/19 01:08	NWTPH-Dx	
MW11-W (A9H0906-06)				Matrix: Wat	er	Batch:	9081504	
Diesel	1060		75.5	ug/L	1	08/31/19 01:28	NWTPH-Dx	F-13, F-20
Oil	ND		151	ug/L	1	08/31/19 01:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 92 %	Limits: 50-150 %	6 I	08/31/19 01:28	NWTPH-Dx	
MW12-W (A9H0906-07RE1)				Matrix: Wat	er	Batch:	9081504	
Diesel	ND		74.8	ug/L	1	09/03/19 09:04	NWTPH-Dx	
Oil	ND		150	ug/L	1	09/03/19 09:04	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 81 %	Limits: 50-150 %	6 1	09/03/19 09:04	NWTPH-Dx	
MW13R-W (A9H0906-08)				Matrix: Wat	er	Batch:	9081504	
Diesel	2180		75.5	ug/L	1	08/31/19 02:08	NWTPH-Dx	F-11, F-20

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.

Gwa A Zomenighini





HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660 Project: <u>Coleman Wenatchee</u>

Project Number: **2017-074**Project Manager: **Craig Hultgren**

Report ID: A9H0906 - 09 18 19 0843

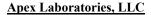
ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	II Hydrocar	bons by NWTP	H-Dx			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW13R-W (A9H0906-08)				Matrix: Wat	er	Batch:	9081504	
Oil	ND		151	ug/L	1	08/31/19 02:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 65 %	Limits: 50-150 %	% I	08/31/19 02:08	NWTPH-Dx	
MW14-W (A9H0906-09)				Matrix: Wat	er	Batch:	9081504	
Diesel	1280		75.5	ug/L	1	08/31/19 02:27	NWTPH-Dx	F-11, F-20
Oil	ND		151	ug/L	1	08/31/19 02:27	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 86 %	Limits: 50-150 %	6 1	08/31/19 02:27	NWTPH-Dx	
MW16-W (A9H0906-10)				Matrix: Wat	er	Batch:	9081504	
Diesel	349		74.8	ug/L	1	08/31/19 02:47	NWTPH-Dx	F-11
Oil	ND		150	ug/L	1	08/31/19 02:47	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 97%	Limits: 50-150 %	% 1	08/31/19 02:47	NWTPH-Dx	
MW17-W (A9H0906-11)				Matrix: Wat	er	Batch:	9081504	
Diesel	6730		74.8	ug/L	1	08/31/19 03:07	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	08/31/19 03:07	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 82 %	Limits: 50-150 %	6 1	08/31/19 03:07	NWTPH-Dx	
MW20-W (A9H0906-12)				Matrix: Wat	er	Batch:	9081504	
Diesel	870		74.8	ug/L	1	08/31/19 03:27	NWTPH-Dx	F-11, F-20
Oil	ND		150	ug/L	1	08/31/19 03:27	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 86 %	Limits: 50-150 %	% 1	08/31/19 03:27	NWTPH-Dx	
MW21-W (A9H0906-13)				Matrix: Wat	er	Batch:	9081504	
Diesel	605		74.8	ug/L	1	08/31/19 05:08	NWTPH-Dx	F-11, F-20
Oil	ND		150	ug/L	1	08/31/19 05:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 98 %	Limits: 50-150 %	6 1	08/31/19 05:08	NWTPH-Dx	
MW23-W (A9H0906-14)				Matrix: Wat	er	Batch:	9081504	
Diesel	580		74.8	ug/L	1	08/31/19 05:28	NWTPH-Dx	F-11
Oil	ND		150	ug/L	1	08/31/19 05:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 93 %	Limits: 50-150 %	6 1	08/31/19 05:28	NWTPH-Dx	
MW24-W (A9H0906-15)				Matrix: Wat	er	Batch:	9081504	
Diesel	560		74.8	ug/L	1	08/31/19 05:48	NWTPH-Dx	F-11, F-20
Oil	ND		150	ug/L	1	08/31/19 05:48	NWTPH-Dx	

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.

Gwa A Jamenghini





HydroCon LLC
314 W 15th Street Suite 300

Vancouver, WA 98660

Project: <u>Coleman Wenatchee</u>

Project Number: **2017-074**Project Manager: **Craig Hultgren**

Report ID: A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	il Hydrocar	bons by NWTP	H-Dx			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW24-W (A9H0906-15)				Matrix: Wate	er	Batch:	9081504	
Surrogate: o-Terphenyl (Surr)		Reco	very: 92 %	Limits: 50-150 %	<i>i</i> 1	08/31/19 05:48	NWTPH-Dx	
MW25-W (A9H0906-16RE1)				Matrix: Wate	er	Batch:	9081504	
Diesel	262		74.8	ug/L	1	09/03/19 23:47	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	09/03/19 23:47	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 71 %	Limits: 50-150 %	1	09/03/19 23:47	NWTPH-Dx	
MW26-W (A9H0906-17RE1)				Matrix: Wate	er	Batch:	9081504	
Diesel	266		74.8	ug/L	1	09/04/19 00:11	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	09/04/19 00:11	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 82 %	Limits: 50-150 %	<i>I</i>	09/04/19 00:11	NWTPH-Dx	
MW27-W (A9H0906-18)				Matrix: Wate	er	Batch:	9081504	
Diesel	467		74.8	ug/L	1	08/30/19 22:48	NWTPH-Dx	F-11
Oil	ND		150	ug/L	1	08/30/19 22:48	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 81 %	Limits: 50-150 %	1	08/30/19 22:48	NWTPH-Dx	
MW28-W (A9H0906-19)				Matrix: Wate	er	Batch:	9081504	
Diesel	1010		74.8	ug/L	1	08/30/19 23:08	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	08/30/19 23:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 82 %	Limits: 50-150 %	1	08/30/19 23:08	NWTPH-Dx	
MW30-W (A9H0906-20)				Matrix: Wate	er	Batch:	9081504	
Diesel	557		74.8	ug/L	1	08/30/19 23:28	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	08/30/19 23:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 78 %	Limits: 50-150 %	1	08/30/19 23:28	NWTPH-Dx	
MW31-W (A9H0906-21)				Matrix: Wate	er	Batch:	9081518	
Diesel	ND		74.8	ug/L	1	08/31/19 01:08	NWTPH-Dx	
Oil	ND		150	ug/L	1	08/31/19 01:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 88 %	Limits: 50-150 %	1	08/31/19 01:08	NWTPH-Dx	
MW32-W (A9H0906-22)			·	Matrix: Wate	er	Batch: 9081518		
Diesel	302		74.8	ug/L	1	08/31/19 01:28	NWTPH-Dx	F-11
Oil	ND		150	ug/L	1	08/31/19 01:28	NWTPH-Dx	

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.

Gusa A Zmenighini





Report ID:

HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660 Project: <u>Coleman Wenatchee</u>

Project Number: 2017-074

Project Manager: Craig Hultgren A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	ıı Hydrocar	bons by NWTP	H-Dx			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW32-W (A9H0906-22)				Matrix: Wate	er	Batch:	9081518	
Surrogate: o-Terphenyl (Surr)		Reco	very: 85 %	Limits: 50-150 %	5 1	08/31/19 01:28	NWTPH-Dx	
BH01-W (A9H0906-23)				Matrix: Wate	er	Batch:	9081518	
Diesel	1910		74.8	ug/L	1	08/31/19 01:48	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	08/31/19 01:48	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 53 %	Limits: 50-150 %	5 1	08/31/19 01:48	NWTPH-Dx	
BH02-W (A9H0906-24)				Matrix: Wate	er	Batch:	9081518	
Diesel	6150		74.8	ug/L	1	08/31/19 02:08	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	08/31/19 02:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 81 %	Limits: 50-150 %	5 1	08/31/19 02:08	NWTPH-Dx	
BH03-W (A9H0906-25)				Matrix: Wate	er	Batch:	9081518	
Diesel	816		74.8	ug/L	1	08/31/19 02:27	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	08/31/19 02:27	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 80 %	Limits: 50-150 %	5 1	08/31/19 02:27	NWTPH-Dx	
RW01-W (A9H0906-26)				Matrix: Wate	er	Batch:	9081518	
Diesel	116		74.8	ug/L	1	08/31/19 02:47	NWTPH-Dx	F-11
Oil	ND		150	ug/L	1	08/31/19 02:47	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 85 %	Limits: 50-150 %	5 1	08/31/19 02:47	NWTPH-Dx	
MW100-W (A9H0906-27)				Matrix: Wate	er	Batch:	9081518	
Diesel	1320		74.8	ug/L	1	08/31/19 03:07	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	08/31/19 03:07	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 88 %	Limits: 50-150 %	5 1	08/31/19 03:07	NWTPH-Dx	
MW101-W (A9H0906-28)				Matrix: Wate	er	Batch:	9081518	
Diesel	5800		74.8	ug/L	1	08/31/19 03:27	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	08/31/19 03:27	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 66 %	Limits: 50-150 %	5 1	08/31/19 03:27	NWTPH-Dx	
MW102-W (A9H0906-29)				Matrix: Wate	er	Batch:	9081518	
Diesel	2300		74.8	ug/L	1	08/31/19 03:47	NWTPH-Dx	F-13
Oil	ND		150	ug/L	1	08/31/19 03:47	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 67 %	Limits: 50-150 %	5 1	08/31/19 03:47	NWTPH-Dx	

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.

Josa A Zomenighini



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 <u>EPA ID: OR01039</u>

<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

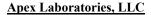
ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	il Hydrocar	bons by NWTP	H-Dx			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
190827Blank-W (A9H0906-30)				Matrix: Wate	er	Batch:	9081518	
Diesel	ND		74.8	ug/L	1	08/31/19 05:28	NWTPH-Dx	
Oil	ND		150	ug/L	1	08/31/19 05:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 95 %	Limits: 50-150 %	6 <i>1</i>	08/31/19 05:28	NWTPH-Dx	
MW10R-W (A9H0906-31)				Matrix: Wate	er	Batch:	9081518	
Diesel	3620		755	ug/L	10	08/31/19 10:08	NWTPH-Dx	F-13
Oil	ND		1510	ug/L	10	08/31/19 10:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 85 %	Limits: 50-150 %	6 10	08/31/19 10:08	NWTPH-Dx	S-05

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.

Doas Smerighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons (E	Benzene th	rough Nap	htha	lene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units		Dilution	Date Analyzed	Method Ref.	Notes
MW01S-W (A9H0906-01)				Matrix:	Wate	r	Batch	: 9081530	
Gasoline Range Organics	ND		100	ug/L		1	08/30/19 15:31	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 94 %	Limits: 50-1	50 %	1	08/30/19 15:31	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			107 %	50-1	50 %	1	08/30/19 15:31	NWTPH-Gx (MS)	
MW03S-W (A9H0906-02)				Matrix:	Wate	r	Batch	: 9081530	
Gasoline Range Organics	ND		100	ug/L		1	08/30/19 15:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 98 %	Limits: 50-1	50 %	1	08/30/19 15:58	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			111 %	50-1	50 %	1	08/30/19 15:58	NWTPH-Gx (MS)	
MW06-W (A9H0906-03RE1)				Matrix:	Wate	r	Batch	: 9090422	
Gasoline Range Organics	356		100	ug/L		1	09/03/19 18:40	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 106%	Limits: 50-1	50 %	1	09/03/19 18:40	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			98 %	50-1	50 %	1	09/03/19 18:40	NWTPH-Gx (MS)	
MW08-W (A9H0906-04RE1)				Matrix:	Wate	r	Batch	: 9090422	
Gasoline Range Organics	899		100	ug/L		1	09/03/19 19:07	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 105 %	Limits: 50-1	50 %	1	09/03/19 19:07	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			101 %	50-1	50 %	1	09/03/19 19:07	NWTPH-Gx (MS)	
MW09R-W (A9H0906-05RE1)				Matrix:	Wate	r	Batch	: 9090422	
Gasoline Range Organics	1080		100	ug/L		1	09/03/19 19:34	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 105 %	Limits: 50-1	50 %	1	09/03/19 19:34	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			97 %	50-1	50 %	1	09/03/19 19:34	NWTPH-Gx (MS)	
MW11-W (A9H0906-06RE1)				Matrix:	Wate	r	Batch	: 9090422	
Gasoline Range Organics	1230		100	ug/L		1	09/03/19 20:02	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 105 %	Limits: 50-1	50 %	1	09/03/19 20:02	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			102 %	50-1	50 %	1	09/03/19 20:02	NWTPH-Gx (MS)	
MW12-W (A9H0906-07)				Matrix:	Wate	r	Batch	: 9081530	
Gasoline Range Organics	ND		100	ug/L		1	08/30/19 18:40	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 99 %	Limits: 50-1	50 %	1	08/30/19 18:40	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %	50-1	50 %	1	08/30/19 18:40	NWTPH-Gx (MS)	
MW13R-W (A9H0906-08)				Matrix:	Wate	r	Batch	: 9081530	
Gasoline Range Organics	966		100	ug/L		1	08/30/19 19:07	NWTPH-Gx (MS)	

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.

Josa A Zomenighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	ydrocarbons (E	senzene th	rough Napht	nalene) by	/ NWTPH-Gx		
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW13R-W (A9H0906-08)				Matrix: Wa	ater	Batch	n: 9081530	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	ry: 99 %	Limits: 50-150	% 1	08/30/19 19:07	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150	% 1	08/30/19 19:07	NWTPH-Gx (MS)	
MW14-W (A9H0906-09)				Matrix: Wa	ater	Batch	ı: 9081530	R-04
Gasoline Range Organics	3510		1000	ug/L	10	08/30/19 19:34	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	ry: 93 %	Limits: 50-150	% 1	08/30/19 19:34	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150	% I	08/30/19 19:34	NWTPH-Gx (MS)	
MW16-W (A9H0906-10)				Matrix: Wa	ater	Batch	ı: 9081530	
Gasoline Range Organics	ND		100	ug/L	1	08/30/19 20:01	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	ry: 98 %	Limits: 50-150	% 1	08/30/19 20:01	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %	50-150	% 1	08/30/19 20:01	NWTPH-Gx (MS)	
MW17-W (A9H0906-11RE1)				Matrix: Wa	ater	Batch	ı: 9090422	
Gasoline Range Organics	655		100	ug/L	1	09/03/19 20:29	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 107 %	Limits: 50-150	% 1	09/03/19 20:29	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			117 %	50-150	% I	09/03/19 20:29	NWTPH-Gx (MS)	
MW20-W (A9H0906-12)				Matrix: Wa	ater	Batch	ı: 9081530	
Gasoline Range Organics	588		100	ug/L	1	08/30/19 21:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 100 %	Limits: 50-150	% 1	08/30/19 21:22	NWTPH-Gx (MS)	
I,4-Difluorobenzene (Sur)			108 %	50-150	% 1	08/30/19 21:22	NWTPH-Gx (MS)	
MW21-W (A9H0906-13)				Matrix: Wa	ater	Batch	ı: 9081530	
Gasoline Range Organics	453		100	ug/L	1	08/30/19 21:49	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	ry: 98 %	Limits: 50-150	% 1	08/30/19 21:49	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			103 %	50-150	% 1	08/30/19 21:49	NWTPH-Gx (MS)	
MW23-W (A9H0906-14)				Matrix: Wa	ater	Batch	ı: 9081530	
Gasoline Range Organics	ND		100	ug/L	1	08/30/19 22:16	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	ry: 95 %	Limits: 50-150	% 1	08/30/19 22:16	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150	% 1	08/30/19 22:16	NWTPH-Gx (MS)	
MW24-W (A9H0906-15)				Matrix: Wa	ater	Batch	n: 9081530	
Gasoline Range Organics	ND		100	ug/L	1	08/30/19 22:43	NWTPH-Gx (MS)	

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.

Grand Zmenighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

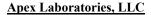
ANALYTICAL SAMPLE RESULTS

	C- 1	Detect	D '				Dete		
Analyte	Sample Result	Detection Limit	Reporting Limit	ŢI	nits	Dilution	Date Analyzed	Method Ref.	Notes
MW24-W (A9H0906-15)	Result	Limit	Limit		rix: Wate			: 9081530	11010
· · · · · · · · · · · · · · · · · · ·			100.07						
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recovery	v: 102 % 109 %	Limits:	50-150 % 50-150 %		08/30/19 22:43 08/30/19 22:43	NWTPH-Gx (MS) NWTPH-Gx (MS)	
			10770					. ,	
MW25-W (A9H0906-16)				Matı	rix: Wate	er	Batch	: 9081530	
Gasoline Range Organics	ND		100	u	ıg/L	1	08/30/19 23:10	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	ry: 98 %	Limits:	50-150 %		08/30/19 23:10	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %		50-150 %	6 I	08/30/19 23:10	NWTPH-Gx (MS)	
MW26-W (A9H0906-17)				Matı	rix: Wate	ər	Batch	: 9081530	
Gasoline Range Organics	ND		100	u	ıg/L	1	08/30/19 23:37	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	ry: 99 %	Limits:	50-150 %	5 1	08/30/19 23:37	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %		50-150 %	6 1	08/30/19 23:37	NWTPH-Gx (MS)	
MW27-W (A9H0906-18)				Matı	rix: Wate	er	Batch	: 9081530	
Gasoline Range Organics	ND		100	u	ıg/L	1	08/31/19 00:30	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 101 %	Limits:	50-150 %	6 1	08/31/19 00:30	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %		50-150 %	6 I	08/31/19 00:30	NWTPH-Gx (MS)	
MW28-W (A9H0906-19)				Matı	rix: Wate	er	Batch	: 9081530	
Gasoline Range Organics	302		100	u	ıg/L	1	08/31/19 00:03	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 105 %	Limits:	50-150 %	6 1	08/31/19 00:03	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %		50-150 %	6 I	08/31/19 00:03	NWTPH-Gx (MS)	
MW30-W (A9H0906-20)				Matı	rix: Wate	er	Batch	: 9081511	
Gasoline Range Organics	ND		100	u	ıg/L	1	08/30/19 17:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 107 %	Limits:	50-150 %	6 1	08/30/19 17:22	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %		50-150 %	5 1	08/30/19 17:22	NWTPH-Gx (MS)	
MW31-W (A9H0906-21)				Matı	rix: Wate	er	Batch	: 9081511	
Gasoline Range Organics	ND		100	u	ıg/L	1	08/30/19 18:16	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 107 %	Limits:	50-150 %	6 1	08/30/19 18:16	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %		50-150 %	5 I	08/30/19 18:16	NWTPH-Gx (MS)	
MW32-W (A9H0906-22)				Matı	rix: Wate	er	Batch	: 9081511	
Gasoline Range Organics	ND		100	u	ıg/L	1	08/30/19 18:43	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 102 %	Limits	50-150 %	<u> </u>	08/30/19 18:43	NWTPH-Gx (MS)	

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.

Gwa A Zmenghini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons (E	Benzene tl	hrough Naphth	alene) by	NWTPH-Gx		
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW32-W (A9H0906-22)				Matrix: Wat	er	Batch	: 9081511	
Surrogate: 1,4-Difluorobenzene (Sur)		Recovery	: 103 %	Limits: 50-150 %	6 1	08/30/19 18:43	NWTPH-Gx (MS)	
BH01-W (A9H0906-23)				Matrix: Wat	er	Batch	: 9081511	
Gasoline Range Organics	518		100	ug/L	1	08/30/19 19:10	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 110 %	Limits: 50-150 %	6 1	08/30/19 19:10	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			105 %	50-150 %	6 1	08/30/19 19:10	NWTPH-Gx (MS)	
BH02-W (A9H0906-24)				Matrix: Wat	er	Batch	: 9081511	
Gasoline Range Organics	295		100	ug/L	1	08/30/19 19:37	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 107 %	Limits: 50-150 %	% I	08/30/19 19:37	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			102 %	50-150 %	6 1	08/30/19 19:37	NWTPH-Gx (MS)	
BH03-W (A9H0906-25)				Matrix: Wat	er	Batch	: 9081511	
Gasoline Range Organics	121		100	ug/L	1	08/30/19 20:04	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 108 %	Limits: 50-150 %	% 1	08/30/19 20:04	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			104 %	50-150 %	6 1	08/30/19 20:04	NWTPH-Gx (MS)	
RW01-W (A9H0906-26)				Matrix: Wat	er	Batch	: 9081511	
Gasoline Range Organics	ND		100	ug/L	1	08/30/19 20:31	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 104 %	Limits: 50-150 %	% 1	08/30/19 20:31	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			103 %	50-150 %	% I	08/30/19 20:31	NWTPH-Gx (MS)	
MW100-W (A9H0906-27)				Matrix: Wat	er	Batch	: 9081511	
Gasoline Range Organics	334		100	ug/L	1	08/30/19 20:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	7: 108 %	Limits: 50-150 %	6 I	08/30/19 20:58	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			102 %	50-150 %	6 1	08/30/19 20:58	NWTPH-Gx (MS)	
MW101-W (A9H0906-28RE1)				Matrix: Wat	er	Batch	: 9090423	
Gasoline Range Organics	535		100	ug/L	1	09/03/19 13:21	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 104 %	Limits: 50-150 %	% I	09/03/19 13:21	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			99 %	50-150 %	% 1	09/03/19 13:21	NWTPH-Gx (MS)	
MW102-W (A9H0906-29RE1)				Matrix: Wat	er	Batch	: 9090423	
Gasoline Range Organics	472		100	ug/L	1	09/03/19 13:48	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 109 %	Limits: 50-150 %	% I	09/03/19 13:48	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			102 %	50-150 %	6 1	09/03/19 13:48	NWTPH-Gx (MS)	

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.

Goa A Zmenichini



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 <u>EPA ID: OR01039</u>

<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	/drocarbons (E	Benzene tl	hrough Naphth	alene) by	NWTPH-Gx		
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
190827Blank-W (A9H0906-30)				Matrix: Wate	er	Batch	: 9081511	
Gasoline Range Organics	ND		100	ug/L	1	08/30/19 15:59	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 105 %	Limits: 50-150 %	6 I	08/30/19 15:59	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			105 %	50-150 %	6 I	08/30/19 15:59	NWTPH-Gx (MS)	
MW10R-W (A9H0906-31RE1)				Matrix: Wate	er	Batch	: 9090423	
Gasoline Range Organics	1270		100	ug/L	1	09/03/19 14:15	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 108 %	Limits: 50-150 %	6 I	09/03/19 14:15	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			100 %	50-150 %	6 I	09/03/19 14:15	NWTPH-Gx (MS)	

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.

Doas Smerighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

		BTEX Co	mpounds b	y EPA 8260C				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW01S-W (A9H0906-01)				Matrix: Wate	er	Batch:	9081530	
Benzene	ND		0.200	ug/L	1	08/30/19 15:31	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 15:31	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 15:31	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 15:31	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recov	ery: 103 %	Limits: 80-120 %	1	08/30/19 15:31	EPA 8260C	
Toluene-d8 (Surr)			102 %	80-120 %	1	08/30/19 15:31	EPA 8260C	
4-Bromofluorobenzene (Surr)			102 %	80-120 %	I	08/30/19 15:31	EPA 8260C	
MW03S-W (A9H0906-02)				Matrix: Wate	er	Batch:	9081530	
Benzene	ND		0.200	ug/L	1	08/30/19 15:58	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 15:58	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 15:58	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 15:58	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recov	ery: 106%	Limits: 80-120 %	1	08/30/19 15:58	EPA 8260C	
Toluene-d8 (Surr)			99 %	80-120 %	1	08/30/19 15:58	EPA 8260C	
4-Bromofluorobenzene (Surr)			101 %	80-120 %	I	08/30/19 15:58	EPA 8260C	
MW06-W (A9H0906-03RE1)				Matrix: Wate	er	Batch: 9090422		
Benzene	ND		0.200	ug/L	1	09/03/19 18:40	EPA 8260C	
Toluene	ND		1.00	ug/L	1	09/03/19 18:40	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	09/03/19 18:40	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	09/03/19 18:40	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recov	ery: 107%	Limits: 80-120 %	1	09/03/19 18:40	EPA 8260C	
Toluene-d8 (Surr)			102 %	80-120 %	1	09/03/19 18:40	EPA 8260C	
4-Bromofluorobenzene (Surr)			103 %	80-120 %	1	09/03/19 18:40	EPA 8260C	
MW08-W (A9H0906-04RE1)				Matrix: Wate	er	Batch:	9090422	
Benzene	0.853		0.200	ug/L	1	09/03/19 19:07	EPA 8260C	
Toluene	ND		1.00	ug/L	1	09/03/19 19:07	EPA 8260C	
Ethylbenzene	0.504		0.500	ug/L	1	09/03/19 19:07	EPA 8260C	
Xylenes, total	2.17		1.50	ug/L	1	09/03/19 19:07	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recov	ery: 105 %	Limits: 80-120 %	1	09/03/19 19:07	EPA 8260C	
Toluene-d8 (Surr)			101 %	80-120 %	1	09/03/19 19:07	EPA 8260C	
4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	09/03/19 19:07	EPA 8260C	
MW09R-W (A9H0906-05RE1)				Matrix: Wate	er	Batch:	9090422	
Benzene	ND		0.200	ug/L	1	09/03/19 19:34	EPA 8260C	
				-				

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.

Josa A Zomenighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

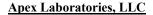
ANALYTICAL SAMPLE RESULTS

		BTEX Com	pounds b	y EPA 8260C				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW09R-W (A9H0906-05RE1)				Matrix: Wate	r	Batch:	9090422	
Toluene	ND		1.00	ug/L	1	09/03/19 19:34	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	09/03/19 19:34	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	09/03/19 19:34	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 105 %	Limits: 80-120 %	1	09/03/19 19:34	EPA 8260C	
Toluene-d8 (Surr)			100 %	80-120 %	1	09/03/19 19:34	EPA 8260C	
4-Bromofluorobenzene (Surr)			102 %	80-120 %	1	09/03/19 19:34	EPA 8260C	
MW11-W (A9H0906-06RE1)				Matrix: Wate	r	Batch:	9090422	
Benzene	ND		0.200	ug/L	1	09/03/19 20:02	EPA 8260C	
Toluene	ND		1.00	ug/L	1	09/03/19 20:02	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	09/03/19 20:02	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	09/03/19 20:02	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 104%	Limits: 80-120 %	1	09/03/19 20:02	EPA 8260C	
Toluene-d8 (Surr)			102 %	80-120 %	1	09/03/19 20:02	EPA 8260C	
4-Bromofluorobenzene (Surr)			104 %	80-120 %	1	09/03/19 20:02	EPA 8260C	
MW12-W (A9H0906-07)				Matrix: Wate	r	Batch:	9081530	
Benzene	ND		0.200	ug/L	1	08/30/19 18:40	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 18:40	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 18:40	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 18:40	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 104%	Limits: 80-120 %	1	08/30/19 18:40	EPA 8260C	
Toluene-d8 (Surr)			100 %	80-120 %	1	08/30/19 18:40	EPA 8260C	
4-Bromofluorobenzene (Surr)			102 %	80-120 %	1	08/30/19 18:40	EPA 8260C	
MW13R-W (A9H0906-08)				Matrix: Wate	r	Batch:	9081530	
Benzene	96.4		0.200	ug/L	1	08/30/19 19:07	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 19:07	EPA 8260C	
Ethylbenzene	8.52		0.500	ug/L	1	08/30/19 19:07	EPA 8260C	
Xylenes, total	28.5		1.50	ug/L	1	08/30/19 19:07	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 103 %	Limits: 80-120 %	1	08/30/19 19:07	EPA 8260C	
Toluene-d8 (Surr)			100 %	80-120 %	1	08/30/19 19:07	EPA 8260C	
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	08/30/19 19:07	EPA 8260C	
MW14-W (A9H0906-09)				Matrix: Wate	r	Batch:	9081530	R-04
Benzene	44.2		2.00	ug/L	10	08/30/19 19:34	EPA 8260C	
Toluene	ND		10.0	ug/L	10	08/30/19 19:34	EPA 8260C	

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.

Grand Zmenighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

		BTEX Co	mpounds b	y EPA 8260C				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
MW14-W (A9H0906-09)				Matrix: Wate	r	Batch:	9081530	R-04
Ethylbenzene	5.95		5.00	ug/L	10	08/30/19 19:34	EPA 8260C	
Xylenes, total	ND		15.0	ug/L	10	08/30/19 19:34	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 103 %	Limits: 80-120 %	1	08/30/19 19:34	EPA 8260C	
Toluene-d8 (Surr)			101 %	80-120 %	1	08/30/19 19:34	EPA 8260C	
4-Bromofluorobenzene (Surr)			101 %	80-120 %	1	08/30/19 19:34	EPA 8260C	
MW16-W (A9H0906-10)				Matrix: Wate	r	Batch:	9081530	
Benzene	ND		0.200	ug/L	1	08/30/19 20:01	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 20:01	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 20:01	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 20:01	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 106 %	Limits: 80-120 %	1	08/30/19 20:01	EPA 8260C	
Toluene-d8 (Surr)			100 %	80-120 %	1	08/30/19 20:01	EPA 8260C	
4-Bromofluorobenzene (Surr)			101 %	80-120 %	1	08/30/19 20:01	EPA 8260C	
MW17-W (A9H0906-11RE1)		Matrix: Water Batch: 9090422		9090422				
Benzene	2.72		0.200	ug/L	1	09/03/19 20:29	EPA 8260C	
Toluene	ND		1.00	ug/L	1	09/03/19 20:29	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	09/03/19 20:29	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	09/03/19 20:29	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 104 %	Limits: 80-120 %	1	09/03/19 20:29	EPA 8260C	
Toluene-d8 (Surr)			102 %	80-120 %	1	09/03/19 20:29	EPA 8260C	
4-Bromofluorobenzene (Surr)			106 %	80-120 %	1	09/03/19 20:29	EPA 8260C	
MW20-W (A9H0906-12)				Matrix: Wate	r	Batch:	9081530	
Benzene	ND		0.200	ug/L	1	08/30/19 21:22	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 21:22	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 21:22	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 21:22	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 105 %	Limits: 80-120 %	1	08/30/19 21:22	EPA 8260C	
Toluene-d8 (Surr)			99 %	80-120 %	1	08/30/19 21:22	EPA 8260C	
4-Bromofluorobenzene (Surr)			97 %	80-120 %	1	08/30/19 21:22	EPA 8260C	
MW21-W (A9H0906-13)				Matrix: Wate	r	Batch:	9081530	
Benzene	ND		0.200	ug/L	1	08/30/19 21:49	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 21:49	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 21:49	EPA 8260C	

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 Domenighini, Client Services Manager

Awa & Smerighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

		BTEX Con	npounds b	y EPA 8260C				
	Sample	Detection	Reporting			Date		<u> </u>
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW21-W (A9H0906-13)				Matrix: Wate	er	Batch:	9081530	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 21:49	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	v: 103 %	Limits: 80-120 %	1	08/30/19 21:49	EPA 8260C	
Toluene-d8 (Surr)			98 %	80-120 %	1	08/30/19 21:49	EPA 8260C	
4-Bromofluorobenzene (Surr)			101 %	80-120 %	1	08/30/19 21:49	EPA 8260C	
MW23-W (A9H0906-14)				Matrix: Wate	er	Batch:	9081530	
Benzene	ND		0.200	ug/L	1	08/30/19 22:16	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 22:16	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 22:16	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 22:16	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	v: 104 %	Limits: 80-120 %	1	08/30/19 22:16	EPA 8260C	
Toluene-d8 (Surr)			100 %	80-120 %	1	08/30/19 22:16	EPA 8260C	
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	08/30/19 22:16	EPA 8260C	
MW24-W (A9H0906-15)		Matrix: Water Batch: 9081530				9081530		
Benzene	ND		0.200	ug/L	1	08/30/19 22:43	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 22:43	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 22:43	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 22:43	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	v: 105 %	Limits: 80-120 %	1	08/30/19 22:43	EPA 8260C	
Toluene-d8 (Surr)			99 %	80-120 %	1	08/30/19 22:43	EPA 8260C	
4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	08/30/19 22:43	EPA 8260C	
MW25-W (A9H0906-16)				Matrix: Wate	er	Batch:	9081530	
Benzene	ND		0.200	ug/L	1	08/30/19 23:10	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 23:10	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 23:10	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 23:10	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	v: 107 %	Limits: 80-120 %	1	08/30/19 23:10	EPA 8260C	
Toluene-d8 (Surr)			100 %	80-120 %	1	08/30/19 23:10	EPA 8260C	
4-Bromofluorobenzene (Surr)			103 %	80-120 %	1	08/30/19 23:10	EPA 8260C	
MW26-W (A9H0906-17)				Matrix: Wate	er	Batch:	9081530	
Benzene	ND		0.200	ug/L	1	08/30/19 23:37	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 23:37	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 23:37	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 23:37	EPA 8260C	

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.

Gra A Jamenghini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

		BTEX Con	npounds b	y EPA 8260C				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW26-W (A9H0906-17)				Matrix: Wate	r	Batch:	9081530	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 108 %	Limits: 80-120 %	1	08/30/19 23:37	EPA 8260C	
Toluene-d8 (Surr)			100 %	80-120 %	1	08/30/19 23:37	EPA 8260C	
4-Bromofluorobenzene (Surr)			103 %	80-120 %	1	08/30/19 23:37	EPA 8260C	
MW27-W (A9H0906-18)				Matrix: Wate	r	Batch:	9081530	
Benzene	ND		0.200	ug/L	1	08/31/19 00:30	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/31/19 00:30	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/31/19 00:30	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/31/19 00:30	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 105 %	Limits: 80-120 %	1	08/31/19 00:30	EPA 8260C	
Toluene-d8 (Surr)			100 %	80-120 %	1	08/31/19 00:30	EPA 8260C	
4-Bromofluorobenzene (Surr)			102 %	80-120 %	1	08/31/19 00:30	EPA 8260C	
MW28-W (A9H0906-19)				Matrix: Wate	r	Batch:	9081530	
Benzene	ND		0.200	ug/L	1	08/31/19 00:03	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/31/19 00:03	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/31/19 00:03	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/31/19 00:03	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 106 %	Limits: 80-120 %	1	08/31/19 00:03	EPA 8260C	
Toluene-d8 (Surr)			98 %	80-120 %	1	08/31/19 00:03	EPA 8260C	
4-Bromofluorobenzene (Surr)			101 %	80-120 %	1	08/31/19 00:03	EPA 8260C	
MW30-W (A9H0906-20)				Matrix: Wate	r	Batch: 9081511		
Benzene	ND		0.200	ug/L	1	08/30/19 17:22	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 17:22	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 17:22	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 17:22	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 107 %	Limits: 80-120 %	1	08/30/19 17:22	EPA 8260C	
Toluene-d8 (Surr)			97 %	80-120 %	1	08/30/19 17:22	EPA 8260C	
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	08/30/19 17:22	EPA 8260C	
MW31-W (A9H0906-21)		Matrix: Water		r	Batch:	9081511		
Benzene	ND		0.200	ug/L	1	08/30/19 18:16	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 18:16	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 18:16	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 18:16	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 107 %	Limits: 80-120 %	1	08/30/19 18:16	EPA 8260C	

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.

Gwa A Zmenghini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number:
 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager:
 Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

		BTEX Cor	npounds b	y EPA 8260C				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
MW31-W (A9H0906-21)				Matrix: Wate	er	Batch:	9081511	
Surrogate: Toluene-d8 (Surr)		Recove	ery: 97%	Limits: 80-120 %	1	08/30/19 18:16	EPA 8260C	
4-Bromofluorobenzene (Surr)			95 %	80-120 %	1	08/30/19 18:16	EPA 8260C	
MW32-W (A9H0906-22)				Matrix: Wate	er	Batch:	Batch: 9081511	
Benzene	ND		0.200	ug/L	1	08/30/19 18:43	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 18:43	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 18:43	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 18:43	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 105 %	Limits: 80-120 %	1	08/30/19 18:43	EPA 8260C	
Toluene-d8 (Surr)			98 %	80-120 %	1	08/30/19 18:43	EPA 8260C	
4-Bromofluorobenzene (Surr)			96 %	80-120 %	1	08/30/19 18:43	EPA 8260C	
BH01-W (A9H0906-23)		Matrix: Water		er	Batch:			
Benzene	0.240		0.200	ug/L	1	08/30/19 19:10	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 19:10	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 19:10	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 19:10	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 106 %	Limits: 80-120 %	1	08/30/19 19:10	EPA 8260C	
Toluene-d8 (Surr)			96 %	80-120 %	1	08/30/19 19:10	EPA 8260C	
4-Bromofluorobenzene (Surr)			97 %	80-120 %	1	08/30/19 19:10	EPA 8260C	
BH02-W (A9H0906-24)				Matrix: Wate	er	Batch:	9081511	
Benzene	ND		0.200	ug/L	1	08/30/19 19:37	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 19:37	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 19:37	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 19:37	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 107 %	Limits: 80-120 %	1	08/30/19 19:37	EPA 8260C	
Toluene-d8 (Surr)			95 %	80-120 %	1	08/30/19 19:37	EPA 8260C	
4-Bromofluorobenzene (Surr)			97 %	80-120 %	I	08/30/19 19:37	EPA 8260C	
BH03-W (A9H0906-25)		Matrix: Water		er	Batch: 9081511			
Benzene	ND		0.200	ug/L	1	08/30/19 20:04	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 20:04	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 20:04	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 20:04	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 105 %	Limits: 80-120 %	1	08/30/19 20:04	EPA 8260C	
Toluene-d8 (Surr)			96 %	80-120 %	1	08/30/19 20:04	EPA 8260C	

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.

Jose & Zmenighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

		BTEX Co	mpounds b	y EPA 8260C				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
BH03-W (A9H0906-25)				Matrix: Wate	Matrix: Water		Batch: 9081511	
Surrogate: 4-Bromofluorobenzene (Surr)		Reco	very: 97 %	Limits: 80-120 %	1	08/30/19 20:04	EPA 8260C	
RW01-W (A9H0906-26)				Matrix: Wate	r	Batch:	9081511	
Benzene	ND		0.200	ug/L	1	08/30/19 20:31	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 20:31	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 20:31	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 20:31	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ry: 105 %	Limits: 80-120 %	1	08/30/19 20:31	EPA 8260C	
Toluene-d8 (Surr)			97 %	80-120 %	1	08/30/19 20:31	EPA 8260C	
4-Bromofluorobenzene (Surr)			96 %	80-120 %	1	08/30/19 20:31	EPA 8260C	
MW100-W (A9H0906-27)				Matrix: Water		Batch:	9081511	
Benzene	ND		0.200	ug/L	1	08/30/19 20:58	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 20:58	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 20:58	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 20:58	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ry: 105 %	Limits: 80-120 %	1	08/30/19 20:58	EPA 8260C	
Toluene-d8 (Surr)			96 %	80-120 %	1	08/30/19 20:58	EPA 8260C	
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	08/30/19 20:58	EPA 8260C	
MW101-W (A9H0906-28RE1)				Matrix: Water		Batch: 9090423		
Benzene	2.43		0.200	ug/L	1	09/03/19 13:21	EPA 8260C	
Toluene	ND		1.00	ug/L	1	09/03/19 13:21	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	09/03/19 13:21	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	09/03/19 13:21	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ry: 103 %	Limits: 80-120 %	1	09/03/19 13:21	EPA 8260C	
Toluene-d8 (Surr)			95 %	80-120 %	1	09/03/19 13:21	EPA 8260C	
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	09/03/19 13:21	EPA 8260C	
MW102-W (A9H0906-29RE1)				Matrix: Wate	r	Batch:	9090423	
Benzene	0.240		0.200	ug/L	1	09/03/19 13:48	EPA 8260C	
Toluene	ND		1.00	ug/L	1	09/03/19 13:48	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	09/03/19 13:48	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	09/03/19 13:48	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ry: 103 %	Limits: 80-120 %	1	09/03/19 13:48	EPA 8260C	
Toluene-d8 (Surr)			96 %	80-120 %	1	09/03/19 13:48	EPA 8260C	
4-Bromofluorobenzene (Surr)			97 %	80-120 %	1	09/03/19 13:48	EPA 8260C	

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.

Grass Jamenghini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number:
 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager:
 Craig Hultgren
 A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

		BTEX Com	pounds b	y EPA 8260C				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
190827Blank-W (A9H0906-30)				Matrix: Wate	er	Batch:	9081511	
Benzene	ND		0.200	ug/L	1	08/30/19 15:59	EPA 8260C	
Toluene	ND		1.00	ug/L	1	08/30/19 15:59	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	08/30/19 15:59	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	08/30/19 15:59	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	v: 107 %	Limits: 80-120 %	1	08/30/19 15:59	EPA 8260C	
Toluene-d8 (Surr)			98 %	80-120 %	1	08/30/19 15:59	EPA 8260C	
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	08/30/19 15:59	EPA 8260C	
MW10R-W (A9H0906-31RE1)				Matrix: Water Batch: 9090423				
Benzene	ND		0.200	ug/L	1	09/03/19 14:15	EPA 8260C	
Toluene	ND		1.00	ug/L	1	09/03/19 14:15	EPA 8260C	
Ethylbenzene	1.44		0.500	ug/L	1	09/03/19 14:15	EPA 8260C	
Xylenes, total	3.06		1.50	ug/L	1	09/03/19 14:15	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 103 %	Limits: 80-120 %	1	09/03/19 14:15	EPA 8260C	
Toluene-d8 (Surr)			95 %	80-120 %	1	09/03/19 14:15	EPA 8260C	
4-Bromofluorobenzene (Surr)			97 %	80-120 %	1	09/03/19 14:15	EPA 8260C	
Trip Blank (A9H0906-32)				Matrix: Wate	er	Batch:	9090809	H-01
Benzene	ND		0.200	ug/L	1	09/13/19 12:28	EPA 8260C	
Toluene	ND		1.00	ug/L	1	09/13/19 12:28	EPA 8260C	
Ethylbenzene	ND		0.500	ug/L	1	09/13/19 12:28	EPA 8260C	
Xylenes, total	ND		1.50	ug/L	1	09/13/19 12:28	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 106 %	Limits: 80-120 %	1	09/13/19 12:28	EPA 8260C	
Toluene-d8 (Surr)			106 %	80-120 %	1	09/13/19 12:28	EPA 8260C	
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	09/13/19 12:28	EPA 8260C	

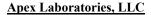
Apex Laboratories

Doas Smerighini

Lisa Domenighini, Client Services Manager

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.

Page 21 of 53





HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660 Project: <u>Coleman Wenatchee</u>

Project Number: 2017-074

Project Manager: Craig Hultgren

Report ID: A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)											
	Sample	Detection	Reporting			Date					
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes			
MW01S-W (A9H0906-01)				Matrix: Wa	ater						
Batch: 9081505											
Manganese	589		1.00	ug/L	1	09/03/19 20:57	EPA 200.8				
MW03S-W (A9H0906-02)				Matrix: Wa	ater						
Batch: 9081505											
Manganese	482		1.00	ug/L	1	09/03/19 21:02	EPA 200.8				
MW06-W (A9H0906-03)				Matrix: Wa	ater						
Batch: 9081505											
Manganese	714		1.00	ug/L	1	09/03/19 21:07	EPA 200.8				
MW08-W (A9H0906-04RE1)				Matrix: Wa	ater						
Batch: 9081505											
Manganese	3370		50.0	ug/L	50	09/04/19 18:54	EPA 200.8	Q-42			
MW09R-W (A9H0906-05RE1)				Matrix: Wa	ater						
Batch: 9081505											
Manganese	5800		50.0	ug/L	50	09/04/19 19:08	EPA 200.8				
MW11-W (A9H0906-06)				Matrix: Wa	ater						
Batch: 9081505											
Manganese	2030		1.00	ug/L	1	09/03/19 21:41	EPA 200.8				
MW12-W (A9H0906-07)				Matrix: Wa	ater						
Batch: 9081505											
Manganese	130		1.00	ug/L	1	09/03/19 21:46	EPA 200.8				
MW13R-W (A9H0906-08)				Matrix: Wa	ater						
Batch: 9081505											
Manganese	2160		1.00	ug/L	1	09/03/19 21:51	EPA 200.8				
MW14-W (A9H0906-09)				Matrix: Wa	ater						
Batch: 9081505											
Manganese	1890		1.00	ug/L	1	09/03/19 21:55	EPA 200.8				

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.

Doas Smerighini





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

Project: Coleman Wenatchee

Project Number: 2017-074

Project Manager: Craig Hultgren

Report ID: А9Н0906 - 09 18 19 0843

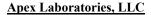
ANALYTICAL SAMPLE RESULTS

		Total Meta	als by EPA 20	0.8 (ICPMS)					
	Sample	Detection	Reporting			Date				
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes		
MW16-W (A9H0906-10)		Matrix: Water								
Batch: 9081505										
Manganese	91.0		1.00	ug/L	1	09/03/19 22:00	EPA 200.8			
MW17-W (A9H0906-11RE1)				Matrix: W	ater					
Batch: 9081505										
Manganese	3450		50.0	ug/L	50	09/04/19 19:12	EPA 200.8			
MW20-W (A9H0906-12RE1)				Matrix: W	ater					
Batch: 9081505										
Manganese	6980		50.0	ug/L	50	09/04/19 19:17	EPA 200.8			
MW21-W (A9H0906-13RE1)				Matrix: W	ater					
Batch: 9081505										
Manganese	3450		50.0	ug/L	50	09/04/19 19:22	EPA 200.8			
MW23-W (A9H0906-14)				Matrix: W	ater					
Batch: 9081505										
Manganese	1590		1.00	ug/L	1	09/03/19 22:30	EPA 200.8			
MW24-W (A9H0906-15)				Matrix: W	ater					
Batch: 9081505										
Manganese	1330		1.00	ug/L	1	09/03/19 22:34	EPA 200.8			
MW25-W (A9H0906-16)				Matrix: W	ater					
Batch: 9081505										
Manganese	330		1.00	ug/L	1	09/03/19 22:39	EPA 200.8			
MW26-W (A9H0906-17)				Matrix: W	ater					
Batch: 9081505										
Manganese	810		1.00	ug/L	1	09/03/19 22:44	EPA 200.8			
MW27-W (A9H0906-18RE1)				Matrix: W	ater					
Batch: 9081505										
Manganese	3920		50.0	ug/L	50	09/04/19 19:35	EPA 200.8			

Apex Laboratories

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

Grand Jamenghini





HydroCon LLC 314 W 15th Street Suite 300 Vancouver, WA 98660 Project: <u>Coleman Wenatchee</u>

Project Number: 2017-074

Project Manager: Craig Hultgren

Report ID: A9H0906 - 09 18 19 0843

ANALYTICAL SAMPLE RESULTS

		Total Meta	als by EPA 20	00.8 (ICPMS)			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW28-W (A9H0906-19RE1)				Matrix: Wa	ater			
Batch: 9081505								
Manganese	10700		50.0	ug/L	50	09/04/19 19:40	EPA 200.8	Q-42
MW30-W (A9H0906-20)				Matrix: Wa	ater			
Batch: 9081522								
Manganese	1460		1.00	ug/L	1	09/03/19 23:23	EPA 200.8	
MW31-W (A9H0906-21)				Matrix: Wa	ater			
Batch: 9081522								
Manganese	413		1.00	ug/L	1	09/03/19 23:28	EPA 200.8	
MW32-W (A9H0906-22)				Matrix: Wa	ater			
Batch: 9081522								
Manganese	274		1.00	ug/L	1	09/03/19 23:32	EPA 200.8	
BH01-W (A9H0906-23RE1)				Matrix: Wa	ater			
Batch: 9081522								
Manganese	9780		50.0	ug/L	50	09/04/19 19:49	EPA 200.8	Q-42
BH02-W (A9H0906-24RE1)				Matrix: Wa	ater			
Batch: 9081522								
Manganese	4410		50.0	ug/L	50	09/04/19 20:03	EPA 200.8	
BH03-W (A9H0906-25)				Matrix: Wa	ater			
Batch: 9081522								
Manganese	1570		1.00	ug/L	1	09/03/19 23:57	EPA 200.8	
RW01-W (A9H0906-26)				Matrix: Wa	ater			
Batch: 9081522								
Manganese	52.8		1.00	ug/L	1	09/04/19 00:02	EPA 200.8	
MW100-W (A9H0906-27)				Matrix: Wa	ater			
Batch: 9081522								
Manganese	691		1.00	ug/L	1	09/04/19 00:16	EPA 200.8	

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.

Grand Jamenghini



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 <u>EPA ID: OR01039</u>

<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

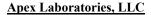
ANALYTICAL SAMPLE RESULTS

		Total Met	als by EPA 20	0.8 (ICPMS)			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
MW101-W (A9H0906-28RE1)				Matrix: W	ater			
Batch: 9081522								
Manganese	3460		50.0	ug/L	50	09/04/19 20:08	EPA 200.8	
MW102-W (A9H0906-29RE1)				Matrix: W	ater			
Batch: 9081522								
Manganese	9680		50.0	ug/L	50	09/04/19 20:12	EPA 200.8	
MW10R-W (A9H0906-31RE1)				Matrix: W	ater			
Batch: 9081522								
Manganese	4410		50.0	ug/L	50	09/04/19 20:17	EPA 200.8	Q-42

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.

Grand Jamenghini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

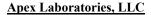
QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/o	r Oil Hyd	rocarbon	s by NW	ГРН-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081504 - EPA 3510C	(Fuels/Acid	Ext.)					Wat	er				
Blank (9081504-BLK1)		Prepared	: 08/30/19 06:	56 Analyz	ed: 08/30/19	9 22:48						
NWTPH-Dx												
Diesel	ND		72.7	ug/L	1							
Oil	ND		145	ug/L	1							
Surr: o-Terphenyl (Surr)		Reco	overy: 96%	Limits: 50	-150 %	Dili	ution: Ix					
LCS (9081504-BS1)		Prepared	: 08/30/19 06:	56 Analyz	ed: 08/30/19	9 23:08						
NWTPH-Dx												
Diesel	425		80.0	ug/L	1	500		85	58 - 115%			
Surr: o-Terphenyl (Surr)		Reco	very: 106 %	Limits: 50	-150 %	Dila	ution: 1x					
LCS Dup (9081504-BSD1)		Prepared	: 08/30/19 06:	56 Analyz	ed: 08/30/19	9 23:28						Q-1
NWTPH-Dx												
Diesel	387		80.0	ug/L	1	500		77	58 - 115%	9	20%	
Surr: o-Terphenyl (Surr)		Reco	overy: 94 %	Limits: 50	-150 %	Dili	ution: 1x					
Batch 9081518 - EPA 3510C	(Fuels/Acid	Ext.)					Wat	er				
Blank (9081518-BLK1)		Prepared	: 08/30/19 10:	29 Analyz	ed: 08/31/19	80:00						
NWTPH-Dx												
Diesel	ND		72.7	ug/L	1							
Oil	ND		145	ug/L	1							
Surr: o-Terphenyl (Surr)		Reco	overy: 96 %	Limits: 50	-150 %	Dili	ution: 1x					
LCS (9081518-BS1)		Prepared	: 08/30/19 10:	29 Analyz	ed: 08/31/19	9 00:28						
NWTPH-Dx												
Diesel	354		80.0	ug/L	1	500		71	58 - 115%			
		Reco	overy: 97%	Limits: 50	-150 %	Dilı	ution: 1x					
Surr: o-Terphenyl (Surr)												
		Prepared	: 08/30/19 10:	29 Analyz	ed: 08/31/19	9 00:48						Q-1
		Prepared	: 08/30/19 10:	29 Analyz	ed: 08/31/19	9 00:48						Q-1
LCS Dup (9081518-BSD1)	374	Prepared	80.0	29 Analyz ug/L	ed: 08/31/19	500		75	58 - 115%	6	20%	Q-1

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.

Goa A Smerighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

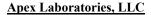
 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range F	lydrocarbo	ns (Benz	zene thro	ugh Naph	thalene)	by NWT	PH-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REO	% REC Limits	RPD	RPD Limit	Notes
Batch 9081511 - EPA 5030B							Wat	er				
Blank (9081511-BLK1)		Prepared	08/30/19 12:	00 Analyz	zed: 08/30/1	9 15:32						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		100	ug/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Recon	very: 102 %	Limits: 50	0-150 %	Dili	ution: 1x					
1,4-Difluorobenzene (Sur)			106 %	50	0-150 %		"					
LCS (9081511-BS2)		Prepared	08/30/19 12:	00 Analyz	zed: 08/30/1	9 15:04						
NWTPH-Gx (MS)												
Gasoline Range Organics	513		100	ug/L	1	500		103	80 - 120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 99 %	Limits: 50	0-150 %	Dila	ution: 1x					
1,4-Difluorobenzene (Sur)			99 %	50	0-150 %		"					
Duplicate (9081511-DUP1)		Prepared	08/30/19 15:	05 Analyz	zed: 08/30/1	9 17:49						
QC Source Sample: MW30-W (A NWTPH-Gx (MS)	9H0906-20)											
Gasoline Range Organics	ND		100	ug/L	1		ND				30%	Q-05
Surr: 4-Bromofluorobenzene (Sur)		Recon	very: 108 %	Limits: 50	0-150 %	Dili	ution: 1x					
1,4-Difluorobenzene (Sur)			105 %	50	0-150 %		"					
Duplicate (9081511-DUP2)		Prepared	08/30/19 15:	05 Analyz	zed: 08/30/1	9 22:19						
OC Source Sample: MW102-W (ANWTPH-Gx (MS)	A9H0906-29	1										
Gasoline Range Organics	ND		1000	ug/L	10		ND				30%	Q-17
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 106 %	Limits: 50	0-150 %	Dili	ution: 1x					
1,4-Difluorobenzene (Sur)			103 %	50	0-150 %		"					

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.





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

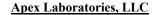
 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	lydrocarbo	ns (Benz	ene throu	ugh Naphi	thalene) l	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081530 - EPA 5030B							Wat	er				
Blank (9081530-BLK1)		Prepared	08/30/19 13:	43 Analyz	ed: 08/30/19	9 15:04						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		100	ug/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Rece	overy: 95 %	Limits: 50	-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			110 %	50	-150 %		"					
LCS (9081530-BS2)		Prepared	08/30/19 13:	43 Analyz	ed: 08/30/19	9 14:37						
NWTPH-Gx (MS)												
Gasoline Range Organics	465		100	ug/L	1	500		93 8	80 - 120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 97%	Limits: 50	-150 %	Dilu	ıtion: 1x					
1,4-Difluorobenzene (Sur)			104 %	50	-150 %		"					
Duplicate (9081530-DUP1)		Prepared	08/30/19 13:	43 Analyz	ed: 08/30/19	9 16:52						
QC Source Sample: MW06-W (A9)H0906-03)											
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		1000	ug/L	10		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Rece	overy: 99 %	Limits: 50	-150 %	Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			111 %	50	-150 %		"					
Duplicate (9081530-DUP2)		Prepared	08/30/19 13:	43 Analyz	ed: 08/30/19	9 20:55						
QC Source Sample: MW17-W (A9)H0906-11)											
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		1000	ug/L	10		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 98 %	Limits: 50	-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			110 %	50	-150 %		"					

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.





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

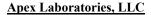
 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasoli	ne Range H	lydrocarbo	ns (Benz	ene thro	ıgh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9090422 - EPA 5030B							Wat	er				
Blank (9090422-BLK1)		Prepared:	09/03/19 09:	00 Analyz	ed: 09/03/19	9 12:48						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		100	ug/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 97 %	Limits: 50	0-150 %	Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			95 %	50)-150 %		"					
LCS (9090422-BS1)		Prepared:	09/03/19 09:	00 Analyz	zed: 09/03/19	9 11:27						
NWTPH-Gx (MS)												
Gasoline Range Organics	539		100	ug/L	1	500		108	80 - 120%			
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 104 %	Limits: 50	0-150 %	Dilı	ution: 1x	•	•			
1,4-Difluorobenzene (Sur)			117 %	50	-150 %		"					

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.





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

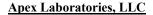
 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasoli	ne Range H	lydrocarbo	ns (Benz	ene thro	ıgh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9090423 - EPA 5030B							Wat	er				
Blank (9090423-BLK1)		Prepared:	09/03/19 10:	00 Analyz	zed: 09/03/19	9 12:27						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		100	ug/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 103 %	Limits: 50	0-150 %	Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			103 %	50	0-150 %		"					
LCS (9090423-BS2)		Prepared:	09/03/19 10:	00 Analyz	zed: 09/03/1	9 12:00						
NWTPH-Gx (MS)												
Gasoline Range Organics	476		100	ug/L	1	500		95	80 - 120%			
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 101 %	Limits: 50	0-150 %	Dilı	ution: 1x	•	•			
1,4-Difluorobenzene (Sur)			96 %	50	0-150 %		"					

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.





6700 S.W. Sandburg Street 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 А9Н0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	ınds by E	PA 8260C	;					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081511 - EPA 5030B							Wat	er				
Blank (9081511-BLK1)		Prepared:	08/30/19 12:	00 Analyz	ed: 08/30/1	9 15:32						
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)		Recov	ery: 107 %	Limits: 80	1-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			98 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			98 %	80	-120 %		"					
LCS (9081511-BS1)		Prepared:	08/30/19 12:	00 Analyz	ed: 08/30/1	9 14:37						
EPA 8260C												
Benzene	20.9		0.200	ug/L	1	20.0		105	80 - 120%			
Toluene	19.3		1.00	ug/L	1	20.0		96	80 - 120%			
Ethylbenzene	20.2		0.500	ug/L	1	20.0		101	80 - 120%			
Xylenes, total	59.3		1.50	ug/L	1	60.0		99	80 - 120%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 100 %	Limits: 80	-120 %	Dili	ution: 1x					
Toluene-d8 (Surr)			97 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			96 %	80	-120 %		"					
Duplicate (9081511-DUP1)		Prepared:	08/30/19 15:	05 Analyz	ed: 08/30/1	9 17:49						
QC Source Sample: MW30-W (A9	H0906-20)											
<u>EPA 8260C</u>	NID		0.200	/r	1		NID				200/	
Benzene	ND ND		0.200	ug/L	1		ND				30%	
Toluene	ND		1.00	ug/L	1		ND				30%	
Ethylbenzene Yvlenes, total	ND ND		0.500	ug/L	1		ND ND				30% 30%	
Xylenes, total	ND		1.50	ug/L	1		-				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	•	Limits: 80		Dili	ution: 1x					
Toluene-d8 (Surr)			96 %		-120 %		"					
4-Bromofluorobenzene (Surr)			97 %	80	-120 %							
Duplicate (9081511-DUP2)		Prepared:	08/30/19 15:	05 Analyz	ed: 08/30/1	9 22:19						

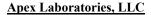
QC Source Sample: MW102-W (A9H0906-29)

EPA 8260C

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.

Doa & Smerighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

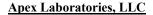
 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

			ВТЕХ	Compou	ınds by E	PA 8260C	<u> </u>					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081511 - EPA 5030B							Wat	er				
Duplicate (9081511-DUP2)		Prepared	: 08/30/19 15:	05 Analyz	ed: 08/30/1	9 22:19						
QC Source Sample: MW102-W (A	УЭН0906-29)										
Benzene	ND		2.00	ug/L	10		ND				30%	
Toluene	ND		10.0	ug/L	10		ND				30%	
Ethylbenzene	ND		5.00	ug/L	10		ND				30%	
Xylenes, total	ND		15.0	ug/L	10		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 105 %	Limits: 80)-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			97 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			97 %	80	-120 %		"					
Matrix Spike (9081511-MS1)		Prepared	: 08/30/19 15:	05 Analyz	ed: 08/30/1	9 23:13						
QC Source Sample: MW10R-W (AEPA 8260C	A9H0906-31	<u>)</u>										
Benzene	227		2.00	ug/L	10	200	ND	114	79 - 120%			
Toluene	211		10.0	ug/L	10	200	ND	106	80 - 121%			
Ethylbenzene	226		5.00	ug/L	10	200	ND	113	79 - 121%			
Xylenes, total	659		15.0	ug/L	10	600	ND	110	79 - 121%			
Surr: 1,4-Difluorobenzene (Surr)		Rece	overy: 99 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			97 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			95 %	80	-120 %		"					

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.





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

Prepared:	Malyre				BTEX	Compou	ınds by E	PA 8260C	;					
Prepared: 08/30/19 13:43 Analyzed: 08/30/19 15:04	Prepared: 08/30/19 13:43 Analyzed: 08/30/19 15:04 September September	Analyte	Result			Units	Dilution			% REC		RPD		Notes
Part Part	Part	Batch 9081530 - EPA 5030B							Wat	er				
Penzene	Benzene ND	Blank (9081530-BLK1)		Prepared	: 08/30/19 13:	43 Analyz	ed: 08/30/1	9 15:04						
Toluene ND 1.00 ug/L 1	Toluene ND 1.00 ug/L 1	EPA 8260C												
Ethylberzene ND 0.500 ug/L 1 Nylenes, total ND 1.50 ug/L 1	Ethylbenzene ND 0.500 ug/L 1 Nylenes, total ND 1.50 ug/L 1 20.0 1.50 80 - 120% ND Nylenes, total ND 1.50 ug/L 1 20.0 1.50 80 - 120% ND ND ND	Benzene	ND		0.200	ug/L	1							
No	ND	Toluene	ND		1.00	ug/L	1							
Name	Name	Ethylbenzene	ND		0.500	ug/L	1							
Toluene-d8 (Surr)	Toluene-d8 (Surr)	Xylenes, total	ND		1.50	ug/L	1							
A-Bromofluorobenzene (Surr)	## Abromofluorobenzene (Surr) 104 % 80-120 % " "	Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 105 %	Limits: 80	-120 %	Dilı	ution: 1x					
Prepared: 08/30/19 13:43 Analyzed: 08/30/19 14:10	Prepared: 08/30/19 13:43 Analyzed: 08/30/19 14:10	Toluene-d8 (Surr)			101 %	80	-120 %		"					
EPA 8260C Benzene 21.6 0.200 ug/L 1 20.0 108 80 - 120% Toluene 20.2 1.00 ug/L 1 20.0 101 80 - 120% Ethylbenzene 21.0 0.500 ug/L 1 20.0 105 80 - 120% Sylvenes, total 64.7 1.50 ug/L 1 60.0 108 80 - 120% Sylvenes, total 64.7 1.50 ug/L 1 60.0 108 80 - 120% Sylvenes, total 64.7 1.50 ug/L 1 60.0 108 80 - 120% Sylvenes, total 64.7 1.50 ug/L 1 60.0 108 80 - 120% Sylvenes, total 64.7 1.50 ug/L 1 60.0 108 80 - 120% Sylvenes, total 64.7 1.50 ug/L 1 60.0 108 80 - 120% Sylvenes, total 64.7 1.50 ug/L 1 60.0 108 80 - 120% Sylvenes, total 64.7 1.50 ug/L 10 ND 1.00 ug/L 10 ND 30% Sylvenes, total ND 1.00 ug/L 10 ND 30% Sylvenes, total ND 1.50 ug/L 10 ND	EPA 8260C Benzene 21.6 0.200 ug/L 1 20.0 108 80 - 120% Toluene 20.2 1.00 ug/L 1 20.0 101 80 - 120% Ethylbenzene 21.0 0.500 ug/L 1 20.0 105 80 - 120% Xylenes, total 64.7 1.50 ug/L 1 60.0 108 80 - 120% Surr: 1,4-Difluorobenzene (Surr)	4-Bromofluorobenzene (Surr)			104 %	80	-120 %		"					
Benzene 21.6	Benzene 21.6 0.200 ug/L 1 20.0 108 80 - 120% 100	LCS (9081530-BS1)		Prepared	: 08/30/19 13:	43 Analyz	ed: 08/30/19	9 14:10						
Toluene 20.2 1.00 ug/L 1 20.0 101 80 - 120% 101 80	Toluene 20.2 1.00 ug/L 1 20.0 101 80 -120% Ethylbenzene 21.0 0.500 ug/L 1 20.0 105 80 -120%	EPA 8260C												
Ethylbenzene 21.0 0.500 ug/L 1 20.0 105 80 - 120%	Ethylbenzene 21.0 0.500 ug/L 1 20.0 105 80 - 120% Xylenes, total 64.7 1.50 ug/L 1 60.0 108 80 - 120% Surr: 1,4-Difluorobenzene (Surr)	Benzene	21.6		0.200	ug/L	1	20.0		108	80 - 120%			
Xylenes, total 64.7	Xylenes, total 64.7	Toluene	20.2		1.00	ug/L	1	20.0		101	80 - 120%			
Surr: 1,4-Difluorobenzene (Surr)	Sur: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % Dilution: Ix	Ethylbenzene	21.0		0.500	ug/L	1	20.0		105	80 - 120%			
Toluene-d8 (Surr) 98 % 80-120 % "	Toluene-d8 (Surr)	Xylenes, total	64.7		1.50	ug/L	1	60.0		108	80 - 120%			
### A-Bromofluorobenzene (Surr) ### Prepared: 08/30/19 13:43 Analyzed: 08/30/19 16:52 OC Source Sample: MW06-W (A9H0906-03)	### A-Bromofluorobenzene (Surr) ### Prepared: 08/30/19 13:43 Analyzed: 08/30/19 16:52 OC Source Sample: MW06-W (A9H0906-03)	Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 100 %	Limits: 80	-120 %	Dilı	ution: 1x					
Duplicate (9081530-DUP1) Prepared: 08/30/19 13:43 Analyzed: 08/30/19 16:52	Duplicate (9081530-DUP1) Prepared: 08/30/19 13:43 Analyzed: 08/30/19 16:52	Toluene-d8 (Surr)			98 %	80	-120 %		"					
OC Source Sample: MW06-W (A9H0906-03) EPA 8260C Benzene ND 2.00 ug/L 10 ND 30% Toluene ND 10.0 ug/L 10 ND 30% Ethylbenzene ND 5.00 ug/L 10 ND 30% Xylenes, total ND 15.0 ug/L 10 ND 30% Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 101 % 80-120 % Dilution: 1x	OC Source Sample: MW06-W (A9H0906-03) EPA 8260C Benzene ND 2.00 ug/L 10 ND 30% Toluene ND 10.0 ug/L 10 ND 30% Ethylbenzene ND 5.00 ug/L 10 ND 30% Xylenes, total ND 15.0 ug/L 10 ND 30% Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 101 % 80-120 % Dilution: 1x	4-Bromofluorobenzene (Surr)			95 %	80	-120 %		"					
EPA 8260C	EPA 8260C	Duplicate (9081530-DUP1)		Prepared	: 08/30/19 13:	43 Analyz	ed: 08/30/1	9 16:52						
EPA 8260C	EPA 8260C	QC Source Sample: MW06-W (AS)H0906-03)											
Toluene ND 10.0 ug/L 10 ND 30% Ethylbenzene ND 5.00 ug/L 10 ND 30% Xylenes, total ND 15.0 ug/L 10 ND 30% Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: Ix Toluene-d8 (Surr) "	Toluene													
Ethylbenzene ND 5.00 ug/L 10 ND 30% Xylenes, total ND 15.0 ug/L 10 ND 30% Surr: 1,4-Diftuorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 101 % 80-120 % "	Ethylbenzene ND 5.00 ug/L 10 ND 30% Xylenes, total ND 15.0 ug/L 10 ND 30% Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) "	Benzene	ND		2.00	ug/L	10		ND				30%	
Xylenes, total ND 15.0 ug/L 10 ND 30% Surr: 1,4-Difluorobenzene (Surr) Recovery: 106% Limits: 80-120% Dilution: 1x Toluene-d8 (Surr) 101% 80-120% "	Xylenes, total ND 15.0 ug/L 10 ND 30% Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 101 % 80-120 % "	Toluene	ND		10.0	ug/L	10		ND				30%	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 101 % 80-120 % "	Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 101 % 80-120 % "	Ethylbenzene	ND		5.00	ug/L	10		ND				30%	
Toluene-d8 (Surr) 101 % 80-120 % "	Toluene-d8 (Surr) 101 % 80-120 % "	Xylenes, total	ND		15.0	ug/L	10		ND				30%	
Toluene-d8 (Surr) 101 % 80-120 % "	Toluene-d8 (Surr) 101 % 80-120 % "	Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 106 %	Limits: 80	-120 %	Dilı	ution: 1x					
		Toluene-d8 (Surr)				80	-120 %		"					
					102 %	80	-120 %		"					

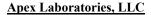
QC Source Sample: MW17-W (A9H0906-11)

EPA 8260C

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 Domenighini, Client Services Manager





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	ınds by E	PA 8260C	;					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081530 - EPA 5030B							Wat	er				
Duplicate (9081530-DUP2)		Prepared	08/30/19 13:	43 Analyz	ed: 08/30/1	9 20:55						
QC Source Sample: MW17-W (AS)H0906-11)											
Benzene	ND		2.00	ug/L	10		2.23			***	30%	
Toluene	ND		10.0	ug/L	10		ND				30%	
Ethylbenzene	ND		5.00	ug/L	10		ND				30%	
Xylenes, total	ND		15.0	ug/L	10		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recon	very: 105 %	Limits: 80)-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			100 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			99 %	80	-120 %		"					
Matrix Spike (9081530-MS1)		Prepared	: 08/30/19 13:	43 Analyz	red: 08/31/1	9 00:57						
QC Source Sample: MW27-W (AS)H0906-18)											
EPA 8260C												
Benzene	22.8		0.200	ug/L	1	20.0	ND	114	79 - 120%			
Toluene	20.7		1.00	ug/L	1	20.0	ND	103	80 - 121%			
Ethylbenzene	21.3		0.500	ug/L	1	20.0	ND	106	79 - 121%			
Xylenes, total	65.3		1.50	ug/L	1	60.0	ND	109	79 - 121%			
Surr: 1,4-Difluorobenzene (Surr)		Recon	very: 100 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			96 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			94 %	80	-120 %		"					

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.





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

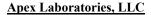
 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	ınds by E	PA 8260C						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9090422 - EPA 5030B							Wate	er				
Blank (9090422-BLK1)		Prepared	: 09/03/19 09:0	00 Analyz	ed: 09/03/1	9 12:48						
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)		Reco	very: 104 %	Limits: 80	0-120 %	Dilı	tion: 1x					
Toluene-d8 (Surr)			105 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			100 %	80)-120 %		"					
LCS (9090422-BS2)		Prepared	: 09/03/19 09:0	00 Analyz	red: 09/03/1	9 11:54						
EPA 8260C												
Benzene	21.8		0.200	ug/L	1	20.0		109	80 - 120%			
Toluene	18.9		1.00	ug/L	1	20.0		94	80 - 120%			
Ethylbenzene	18.0		0.500	ug/L	1	20.0		90	80 - 120%			
Xylenes, total	53.2		1.50	ug/L	1	60.0		89	80 - 120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 105 %	Limits: 80	0-120 %	Dilı	ition: 1x					
Toluene-d8 (Surr)			101 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			103 %	80	-120 %		"					

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.





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

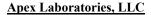
 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

			ВТЕХ	Compou	ınds by E	PA 8260C						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9090423 - EPA 5030B							Wat	er				
Blank (9090423-BLK1)		Prepared	: 09/03/19 10:0	00 Analyz	ed: 09/03/1	9 12:27						
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)		Recon	very: 105 %	Limits: 80	0-120 %	Dilı	ıtion: 1x					
Toluene-d8 (Surr)			98 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			97 %	80)-120 %		"					
LCS (9090423-BS1)		Prepared	: 09/03/19 10:0	00 Analyz	red: 09/03/19	9 11:33						
EPA 8260C												
Benzene	19.4		0.200	ug/L	1	20.0		97 8	0 - 120%			
Toluene	18.3		1.00	ug/L	1	20.0		92 8	0 - 120%			
Ethylbenzene	19.5		0.500	ug/L	1	20.0		97 8	0 - 120%			
Xylenes, total	57.3		1.50	ug/L	1	60.0		95 8	0 - 120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 98 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			97 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			97 %	80	-120 %		"					

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.





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

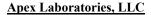
 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	ınds by E	PA 8260C						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9090809 - EPA 5030B							Wat	er				
Blank (9090809-BLK1)		Prepared	: 09/13/19 09:0	00 Analyz	ed: 09/13/1	9 12:01						
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)		Reco	very: 106 %	Limits: 80	-120 %	Dilu	tion: 1x					
Toluene-d8 (Surr)			107 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			98 %	80	-120 %		"					
LCS (9090809-BS1)		Prepared	: 09/13/19 09:0	00 Analyz	ed: 09/13/19	9 11:07						
EPA 8260C												
Benzene	20.0		0.200	ug/L	1	20.0		100	30 - 120%			
Toluene	19.9		1.00	ug/L	1	20.0		100	30 - 120%			
Ethylbenzene	20.9		0.500	ug/L	1	20.0		104 8	30 - 120%			
Xylenes, total	63.3		1.50	ug/L	1	60.0		106	30 - 120%			
Surr: 1,4-Difluorobenzene (Surr)		Rec	overy: 97 %	Limits: 80	120 %	Dilu	tion: 1x					
Toluene-d8 (Surr)			101 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			91 %	80	-120 %		"					

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.





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number:
 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager:
 Craig Hultgren
 A9H0906 - 09 18 19 0843

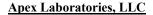
QUALITY CONTROL (QC) SAMPLE RESULTS

			Total N	letals by	EPA 200	8 (ICPMS)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081505 - EPA 3015A							Wate	er				
Blank (9081505-BLK1)		Prepared	: 08/30/19 07:3	33 Analyz	ed: 09/03/19	9 20:47						
EPA 200.8												
Manganese	ND		1.00	ug/L	1							
LCS (9081505-BS1)		Prepared	: 08/30/19 07:3	33 Analyz	ed: 09/03/19	9 20:52						
EPA 200.8												
Manganese	56.6		1.00	ug/L	1	55.6		102	85 - 115%			
Duplicate (9081505-DUP2)		Prepared	: 08/30/19 07:3	33 Analyz	ed: 09/04/19	9 18:59						
QC Source Sample: MW08-W (A	9H0906-04F	<u>RE1)</u>										
Manganese	3180		50.0	ug/L	50		3370			6	20%	Q-16
Matrix Spike (9081505-MS3)		Prepared	: 08/30/19 07:3	33 Analyz	ed: 09/04/19	9 19:03						
QC Source Sample: MW08-W (A	9H0906-04F	<u>RE1)</u>										
Manganese	3340		50.0	ug/L	50	55.6	3370	-41	70 - 130%			Q-03, Q-16
Matrix Spike (9081505-MS4)		Prepared	: 08/30/19 07:3	33 Analyz	ed: 09/04/19	9 19:45						
QC Source Sample: MW28-W (A	9H0906-19F	<u>RE1)</u>										
EPA 200.8	10700		50.0	re-	50	55.6	10700	60	70 12061			0.02.0.16
Manganese	10700		50.0	ug/L	50	55.6	10700	-69	70 - 130%			Q-03, Q-16

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.

Grand Jamenghini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	etals by	EPA 200	.8 (ICPMS)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9081522 - EPA 3015A							Wate	er				
Blank (9081522-BLK2)		Prepared	: 08/30/19 10:4	3 Analyz	ed: 09/04/19	9 18:40						
EPA 200.8												
Manganese	ND		1.00	ug/L	1							Q-16
LCS (9081522-BS1)		Prepared	: 08/30/19 10:4	3 Analyz	ed: 09/03/19	9 23:18						
EPA 200.8												
Manganese	53.6		1.00	ug/L	1	55.6		96	85 - 115%			
Duplicate (9081522-DUP2)		Prepared	: 08/30/19 10:4	3 Analyz	ed: 09/04/19	9 19:54						
QC Source Sample: BH01-W (A9 EPA 200.8	H0906-23RI	E <u>1)</u>										
Manganese	9690		50.0	ug/L	50		9780			1	20%	Q-16
Matrix Spike (9081522-MS3)		Prepared	: 08/30/19 10:4	3 Analyz	ed: 09/04/19	9 19:59						
QC Source Sample: BH01-W (A9	H0906-23RI	E1)										
EPA 200.8												
Manganese	9460		50.0	ug/L	50	55.6	9780	-583	70 - 130%			Q-03, Q-16
Matrix Spike (9081522-MS4)		Prepared	: 08/30/19 10:4	3 Analyz	ed: 09/04/19	9 20:31						
QC Source Sample: MW10R-W (А9Н0906-31	RE1)										
EPA 200.8												
Manganese	4530		50.0	ug/L	50	55.6	4410	230	70 - 130%			Q-03, Q-16

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.





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

SAMPLE PREPARATION INFORMATION

		Diesel an	d/or Oil Hydrocarbon	s by NWTPH-Dx			
Prep: EPA 3510C (Fuels/Acid Ext.)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 9081504			-				
А9Н0906-01	Water	NWTPH-Dx	08/26/19 11:30	08/30/19 06:56	1070mL/2mL	1000mL/2mL	0.94
А9Н0906-02	Water	NWTPH-Dx	08/26/19 10:40	08/30/19 06:56	1070mL/2mL	1000mL/2mL	0.94
А9Н0906-03	Water	NWTPH-Dx	08/26/19 10:20	08/30/19 06:56	1070mL/2mL	1000mL/2mL	0.94
А9Н0906-04	Water	NWTPH-Dx	08/26/19 14:00	08/30/19 06:56	1060mL/2mL	1000mL/2mL	0.94
А9Н0906-05	Water	NWTPH-Dx	08/27/19 07:50	08/30/19 06:56	1070mL/2mL	1000mL/2mL	0.94
А9Н0906-06	Water	NWTPH-Dx	08/26/19 13:10	08/30/19 06:56	1060mL/2mL	1000mL/2mL	0.94
A9H0906-07RE1	Water	NWTPH-Dx	08/26/19 10:00	08/30/19 06:56	1070mL/2mL	1000mL/2mL	0.94
А9Н0906-08	Water	NWTPH-Dx	08/26/19 11:30	08/30/19 06:56	1060 mL/2 mL	1000mL/2mL	0.94
А9Н0906-09	Water	NWTPH-Dx	08/26/19 12:15	08/30/19 06:56	1060 mL/2 mL	1000mL/2mL	0.94
А9Н0906-10	Water	NWTPH-Dx	08/26/19 12:30	08/30/19 07:05	1070 mL/2 mL	1000mL/2mL	0.94
А9Н0906-11	Water	NWTPH-Dx	08/26/19 14:20	08/30/19 07:05	1070 mL/2 mL	1000 mL/2 mL	0.94
А9Н0906-12	Water	NWTPH-Dx	08/28/19 07:20	08/30/19 07:05	1070 mL/2 mL	1000 mL/2 mL	0.94
А9Н0906-13	Water	NWTPH-Dx	08/27/19 08:45	08/30/19 07:05	1070 mL/2 mL	1000 mL/2 mL	0.94
А9Н0906-14	Water	NWTPH-Dx	08/26/19 09:30	08/30/19 07:05	1070 mL/2 mL	1000 mL/2 mL	0.94
А9Н0906-15	Water	NWTPH-Dx	08/27/19 09:30	08/30/19 07:05	1070 mL/2 mL	1000 mL/2 mL	0.94
A9H0906-16RE1	Water	NWTPH-Dx	08/27/19 11:20	08/30/19 07:05	1070 mL/2 mL	1000 mL/2 mL	0.94
A9H0906-17RE1	Water	NWTPH-Dx	08/27/19 12:00	08/30/19 07:05	1070 mL/2 mL	1000 mL/2 mL	0.94
А9Н0906-18	Water	NWTPH-Dx	08/28/19 07:30	08/30/19 07:05	1070 mL/2 mL	1000 mL/2 mL	0.94
А9Н0906-19	Water	NWTPH-Dx	08/27/19 13:00	08/30/19 07:05	1070 mL/2 mL	1000 mL/2 mL	0.94
А9Н0906-20	Water	NWTPH-Dx	08/27/19 10:20	08/30/19 07:05	1070 mL/2 mL	1000 mL/2 mL	0.94
Batch: 9081518							
А9Н0906-21	Water	NWTPH-Dx	08/27/19 08:10	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
А9Н0906-22	Water	NWTPH-Dx	08/26/19 13:20	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
А9Н0906-23	Water	NWTPH-Dx	08/27/19 13:50	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
А9Н0906-24	Water	NWTPH-Dx	08/27/19 09:10	08/30/19 10:29	1070mL/2mL	1000mL/2mL	0.94
А9Н0906-25	Water	NWTPH-Dx	08/28/19 08:15	08/30/19 10:29	1070 mL/2 mL	1000mL/2mL	0.94
А9Н0906-26	Water	NWTPH-Dx	08/28/19 08:15	08/30/19 10:29	1070 mL/2 mL	1000mL/2mL	0.94
А9Н0906-27	Water	NWTPH-Dx	08/26/19 10:20	08/30/19 10:29	1070 mL/2 mL	1000mL/2mL	0.94
А9Н0906-28	Water	NWTPH-Dx	08/26/19 14:30	08/30/19 10:29	1070 mL/2 mL	1000mL/2mL	0.94
А9Н0906-29	Water	NWTPH-Dx	08/27/19 14:00	08/30/19 10:29	1070 mL/2 mL	1000mL/2mL	0.94
А9Н0906-30	Water	NWTPH-Dx	08/27/19 07:15	08/30/19 12:46	1070 mL/2 mL	1000mL/2mL	0.94
А9Н0906-31	Water	NWTPH-Dx	08/27/19 10:25	08/30/19 12:46	1060 mL/2 mL	1000mL/2mL	0.94

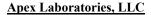
Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

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 Domenighini, Client Services Manager

Awa A Zmenyhini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

SAMPLE PREPARATION INFORMATION

	Gas	soline Range Hydrocart	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		
Prep: EPA 5030B			-		Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 9081511							
А9Н0906-20	Water	NWTPH-Gx (MS)	08/27/19 10:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-21	Water	NWTPH-Gx (MS)	08/27/19 08:10	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-22	Water	NWTPH-Gx (MS)	08/26/19 13:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-23	Water	NWTPH-Gx (MS)	08/27/19 13:50	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-24	Water	NWTPH-Gx (MS)	08/27/19 09:10	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-25	Water	NWTPH-Gx (MS)	08/28/19 08:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-26	Water	NWTPH-Gx (MS)	08/28/19 08:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-27	Water	NWTPH-Gx (MS)	08/26/19 10:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-30	Water	NWTPH-Gx (MS)	08/27/19 07:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
Batch: 9081530							
A9H0906-01	Water	NWTPH-Gx (MS)	08/26/19 11:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
A9H0906-02	Water	NWTPH-Gx (MS)	08/26/19 10:40	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-07	Water	NWTPH-Gx (MS)	08/26/19 10:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-08	Water	NWTPH-Gx (MS)	08/26/19 11:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-09	Water	NWTPH-Gx (MS)	08/26/19 12:15	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-10	Water	NWTPH-Gx (MS)	08/26/19 12:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-12	Water	NWTPH-Gx (MS)	08/28/19 07:20	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-13	Water	NWTPH-Gx (MS)	08/27/19 08:45	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-14	Water	NWTPH-Gx (MS)	08/26/19 09:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-15	Water	NWTPH-Gx (MS)	08/27/19 09:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-16	Water	NWTPH-Gx (MS)	08/27/19 11:20	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-17	Water	NWTPH-Gx (MS)	08/27/19 12:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-18	Water	NWTPH-Gx (MS)	08/28/19 07:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-19	Water	NWTPH-Gx (MS)	08/27/19 13:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
Batch: 9090422							
A9H0906-03RE1	Water	NWTPH-Gx (MS)	08/26/19 10:20	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-04RE1	Water	NWTPH-Gx (MS)	08/26/19 14:00	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-05RE1	Water	NWTPH-Gx (MS)	08/27/19 07:50	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-06RE1	Water	NWTPH-Gx (MS)	08/26/19 13:10	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-11RE1	Water	NWTPH-Gx (MS)	08/26/19 14:20	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
Batch: 9090423							
A9H0906-28RE1	Water	NWTPH-Gx (MS)	08/26/19 14:30	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00
A9H0906-29RE1	Water	NWTPH-Gx (MS)	08/27/19 14:00	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00
A9H0906-31RE1	Water	NWTPH-Gx (MS)	08/27/19 10:25	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00

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.

Gisa A Jamenighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

SAMPLE PREPARATION INFORMATION

		ВТ	EX Compounds by E	PA 8260C			
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 9081511							
А9Н0906-20	Water	EPA 8260C	08/27/19 10:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-21	Water	EPA 8260C	08/27/19 08:10	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-22	Water	EPA 8260C	08/26/19 13:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-23	Water	EPA 8260C	08/27/19 13:50	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-24	Water	EPA 8260C	08/27/19 09:10	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-25	Water	EPA 8260C	08/28/19 08:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-26	Water	EPA 8260C	08/28/19 08:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-27	Water	EPA 8260C	08/26/19 10:20	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
А9Н0906-30	Water	EPA 8260C	08/27/19 07:15	08/30/19 15:05	5mL/5mL	5mL/5mL	1.00
Batch: 9081530							
А9Н0906-01	Water	EPA 8260C	08/26/19 11:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-02	Water	EPA 8260C	08/26/19 10:40	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-07	Water	EPA 8260C	08/26/19 10:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-08	Water	EPA 8260C	08/26/19 11:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-09	Water	EPA 8260C	08/26/19 12:15	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-10	Water	EPA 8260C	08/26/19 12:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-12	Water	EPA 8260C	08/28/19 07:20	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-13	Water	EPA 8260C	08/27/19 08:45	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-14	Water	EPA 8260C	08/26/19 09:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-15	Water	EPA 8260C	08/27/19 09:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-16	Water	EPA 8260C	08/27/19 11:20	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-17	Water	EPA 8260C	08/27/19 12:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-18	Water	EPA 8260C	08/28/19 07:30	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
А9Н0906-19	Water	EPA 8260C	08/27/19 13:00	08/30/19 13:43	5mL/5mL	5mL/5mL	1.00
Batch: 9090422							
A9H0906-03RE1	Water	EPA 8260C	08/26/19 10:20	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-04RE1	Water	EPA 8260C	08/26/19 14:00	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-05RE1	Water	EPA 8260C	08/27/19 07:50	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-06RE1	Water	EPA 8260C	08/26/19 13:10	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
A9H0906-11RE1	Water	EPA 8260C	08/26/19 14:20	09/03/19 13:50	5mL/5mL	5mL/5mL	1.00
Batch: 9090423							
A9H0906-28RE1	Water	EPA 8260C	08/26/19 14:30	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00
A9H0906-29RE1	Water	EPA 8260C	08/27/19 14:00	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00
A9H0906-31RE1	Water	EPA 8260C	08/27/19 10:25	09/03/19 12:07	5mL/5mL	5mL/5mL	1.00
Batch: 9090809							

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 Domenighini, Client Services Manager





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

SAMPLE PREPARATION INFORMATION

		ВТ	EX Compounds by E	PA 8260C			
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
А9Н0906-32	Water	EPA 8260C	08/26/19 00:00	09/13/19 11:49	5mL/5mL	5mL/5mL	1.00

		Tot	al Metals by EPA 200	.8 (ICPMS)			
Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 9081505							
А9Н0906-01	Water	EPA 200.8	08/26/19 11:30	08/30/19 07:33	45mL/50mL	45 mL/50 mL	1.00
А9Н0906-02	Water	EPA 200.8	08/26/19 10:40	08/30/19 07:33	45mL/50mL	45 mL/50 mL	1.00
А9Н0906-03	Water	EPA 200.8	08/26/19 10:20	08/30/19 07:33	45mL/50mL	45 mL/50 mL	1.00
A9H0906-04RE1	Water	EPA 200.8	08/26/19 14:00	08/30/19 07:33	45mL/50mL	45 mL/50 mL	1.00
A9H0906-05RE1	Water	EPA 200.8	08/27/19 07:50	08/30/19 07:33	45mL/50mL	45 mL/50 mL	1.00
А9Н0906-06	Water	EPA 200.8	08/26/19 13:10	08/30/19 07:33	45mL/50mL	45 mL/50 mL	1.00
А9Н0906-07	Water	EPA 200.8	08/26/19 10:00	08/30/19 07:33	45mL/50mL	45 mL/50 mL	1.00
А9Н0906-08	Water	EPA 200.8	08/26/19 11:30	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
А9Н0906-09	Water	EPA 200.8	08/26/19 12:15	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
А9Н0906-10	Water	EPA 200.8	08/26/19 12:30	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-11RE1	Water	EPA 200.8	08/26/19 14:20	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-12RE1	Water	EPA 200.8	08/28/19 07:20	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-13RE1	Water	EPA 200.8	08/27/19 08:45	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
А9Н0906-14	Water	EPA 200.8	08/26/19 09:30	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
А9Н0906-15	Water	EPA 200.8	08/27/19 09:30	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
А9Н0906-16	Water	EPA 200.8	08/27/19 11:20	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
А9Н0906-17	Water	EPA 200.8	08/27/19 12:00	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-18RE1	Water	EPA 200.8	08/28/19 07:30	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
A9H0906-19RE1	Water	EPA 200.8	08/27/19 13:00	08/30/19 07:33	45mL/50mL	45mL/50mL	1.00
Batch: 9081522							
А9Н0906-20	Water	EPA 200.8	08/27/19 10:20	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
А9Н0906-21	Water	EPA 200.8	08/27/19 08:10	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
А9Н0906-22	Water	EPA 200.8	08/26/19 13:20	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-23RE1	Water	EPA 200.8	08/27/19 13:50	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-24RE1	Water	EPA 200.8	08/27/19 09:10	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
А9Н0906-25	Water	EPA 200.8	08/28/19 08:15	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
А9Н0906-26	Water	EPA 200.8	08/28/19 08:15	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
А9Н0906-27	Water	EPA 200.8	08/26/19 10:20	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-28RE1	Water	EPA 200.8	08/26/19 14:30	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00
A9H0906-29RE1	Water	EPA 200.8	08/27/19 14:00	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00

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.

Page 43 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 <u>EPA ID: OR01039</u>

<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

SAMPLE PREPARATION INFORMATION

		Tota	al Metals by EPA 200	.8 (ICPMS)			
Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A9H0906-31RE1	Water	EPA 200.8	08/27/19 10:25	08/30/19 10:43	45mL/50mL	45mL/50mL	1.00

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.

Doas Smerighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

QUALIFIER DEFINITIONS

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

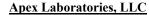
Apex Laboratories

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-20	Result for Diesel is Estimated due to overlap from Gasoline Range Organics or other VOCs.
H-01	This sample was analyzed outside the recommended holding time.
Q-03	Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-16	Reanalysis of an original Batch QC sample.
Q-17	RPD between original and duplicate sample is outside of established control limits.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
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

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.

Doas Smerighini





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

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. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

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

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 Domenighini, Client Services Manager

Gesa A Zmenighini



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

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.

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.

Gwast Jamenighini



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

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 <u>exception</u> 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

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.

Assa & Somenighinic





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

C757-01/-007 ::: 0771/-017																					
Company: Hycho Con	Project Mgr. Craits	ا دايد	Hultores	ا کی		- E	Project Name: Coleman	ame:	13	8	j.	15		Africa Prince H.	1	J-,	rojoca	4.	7.67	5	- 1
Address:			Phone:	.e.				Email	5		1 6	5 -	1 5	5 =	[2	T reject	<u>.</u>	5	10	
Sampled by: Chr? Da	Daschel					(10)			5	4		* 3	ANAL VSIS DEDUTEST		Ş	7	5				
						-				18	-	-	-	i 2	ູ່ "ສະ "ເມ	-	-	-	-		
OR (WA) CA		SBS				Cs		1si.I		յ ղ լլո ,					. 8H . 8N . 84	CCF					
AK ID		TAINE					NOC8					9/ 2/6/			ee, Pb,			my:	5-E-1	> 1000	
	AB ID #	DE CON	H-H-L	L-H4TW	90 BLE:	90 RBD	olsH 09	OOA 09	INIS 04	imas 07	81 Best 87 BCB	. KV Me	Ority M		ib, As, B Co, Cu, I Mo, Ni, I		LP Met	1 12-1	2 V 14 2 K	Luc	 0.41
SAMPLE ID	AG I	-	-		-		Z8							ı	9		•	₩			 укср
M-SIOMW	8/2/19 1130 HzO	0		×	×									15	TOTAL MA	5	×	×	×		1
MW035-W	S/24/17 1040	_							<u> </u>	-	-	-	-	?	-	,	+				
Mwo6 - w	8/26/19 102.0					-			-	+	+-	+-	1	1	+	+	Ŧ	Ŧ	+		
MWOB -W	K/24/1 HOO		_	-		-		1		+		+-	-	-		+	\top				
MW09R-W	S/24/7 O750		<u> </u>			-		\dagger	+	-	+	-	-	-	+-	-	+				
MWII -W	8/26/19 13:0		_			-		+-	+	+	-	-	-	+	-	+		-	+		
MWIE -V	8/2/2 : 000	-						T	+	-	+	-	-	-	-	+-	-	-	+		
MWIZ-W	S/2/17 11.80	-		_				+	-	+	-		-	-	-	+-			+		
M-HIMIN	8/21/9 1215	<u> </u>							-	+-	-	+	-	-	 	+-	una di name		+		
MW 16-W	8 alp 1230 4	0		- N	D	_		-	-	+	-	-	-	+	P	+-	D	C	1		
Normal T	Normal Turn Around Time (TAT) = 10 Business Days	Busines	s Days		$\ \ $		力	SPECI	SPECIAL INSTRUCTIONS	(STRI	1 <u>5</u>	NS:		-		+	>	7	7		8
TAT Downson	1 Day 2 Day	3 Day	>.																		
(Greje) reduested (Greje)	$4 \text{ DAY} \left(5 \text{ DAY} \right)$	0	Other:			i															
	SAMPLES ARE HELD FOR 30 DAYS	S					T														
RELINQUISHED BY: Signature:	RECEIVED BY: Date: Signature:	÷ /		ď	Date:			RELJNQUISHED BY:	QUISH	HED B	ؾ					≅ ;	RECEIVED BY:	ED BY	ļ.,		
Ams	61	·			87919	ā									G	ř.	gnanne.			Date:	
Control Name	Time: Printed Name Printed Name	1 Z	DC.	F	ine:	į ļ		Printed Name	Name						Time;	F	Printed Name:	amc:		Time:	
Company:	Ť	2	5		1		+	Commonu								+					
Hahroles	Arex (at	(ah	()					-cumbar	5							<u> </u>	Company				

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.





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

	731 H.A. L. 1100. 6700 SW Sandburg St., Tigard, OR 97223 Ph. 503-718-2323	97223 Ph: 503-	718-232.	3	3	7		5)	1	5	4				3	, and the same and	Ł	1					5 J	4
Phenic P	Company: Licho Con	Project M.	ig Cr	1 1	22	1 2	5	P.	oject]	Vame:	3	1.5	}		工	3	T	-	Projec	#	0	1 2	74		
ANALYSE RECOURSE ANALYSE	Address:				Phone) ;; C			e	Emai									# 06						
		<u> </u>											*	VALA	SISR	госн	ST								100
1 1 1 1 1 1 1 1 1 1									<u> </u>			18iJ				Ca.	,gM , ,IT ,gV	d							
15 15 15 15 15 15 15 15	OR WA CA		••-	ЕВЗ				SC?			5	ալ լլոց					gH ,d	TCLI			51				
1	AK ID			NIV.	ICID	×					ж	sloV.	,				Fe, P	'SS		न्।ज	-	75			
F - W Sizir 1200 120		# (A1		н-на	G-H					MIS	-imə	SCB8				Cu, Cu,	DI		عبدان		100			
1	SAMPLEID				LLMN	ILMN					8 07 28	S 0478	1 7808				Cr, Co,	TOTAL		IV		NZ			
3 - V	M-FIMW	8/26/19	1420 H	1		\times		\ \	-							r	3	ي (4	X		-	-
3	M1200 - W	18/19	250			-														_	_				
3	MW21 - W	Strate.	7	-			ļ		<u> </u>					<u> </u>	-							=			-
5 - W \$\left(24 \cdot 0 \cdot 30 \cdot 0 \cdot 20 \cdo	M. 178 V	Aladla V	97.0				-	1	-					+			-		1	1		-			
5 - V	7 - K2 / W	9/27/9	2930		<u> </u>			_	-	ļ			 	+			-				_	 			-
30 - V	MW 25-W	1 0 c l l	200				ļ	<u> </u>	 				†	 	 		 -	T				+	†	-	ļ
30 - W 3(21/19) 20.0	My 26 - W	8/24/2	3 6						ļ													_	-		
So - W	M- 42MW	6/8/8	130						ļ				İ		 			Ī			<u> </u>				-
So - W \$ 27 9 \times 20 \times	M-82MM	S/2H9	30.0														د سامت ساسی ا								
1 Day		16142/8					2.7	<u> </u>									D			+		1>			
1 Day		um Around Time (TAT) = 1() Busines:	s Days					SPE] S	ISSI	RUC	NO.						1		1	1		
SAMPLES ARE HELD FOR 30 DAYS RELINQUISHED BY: Date: Signature: Sig			2 Day	3 Da	۶.																				
RECEIVED BY: RELINQUISHED BY: RELINQUISHED BY: RECEIVED BY: Signature: Date: Signature: Signature: Date: Signature: Signature: Date: Signature: Signature: Date: Signature: Signature		\	DAY	0	ther:			1																	
Date: RECEIVED BY: RELINQUISIED BY: RECEIVED BY: Signature: Date: Date: Signature: Date: Date: Signature: Date:	SAM	PLES ARE HELD	OR 30 DA	, XS																					
Dec. Signature Date Signature Date Signature Date Signature Date Signature Date Signature	RELINQUISHED BY:		RECEIVEL	BY:						REL	INOL	ISHE	BY:						RECE	IVED	BY:				
Time: Printed Name: Time: Time: Printed Name: Time: Time: Time: Time: Time: Time: Time	ignature:		Signature	\(\frac{1}{2}\)			Date:	9/19		Sign	stare:						D _a		Signati	5			□)atc:	
Lower Dashed 1455 AMISSAKEPA 1455 Company.	rinted Name:	1	Printed Nam	 			Time:			Print	ted Nar	ne:					Tim	133	Printe	1 Name	120		-	ime:	
Company:	Charles Daglas		Ais	30 te	60		1/	155														ĺ			
	ompany:		Company:	1.1,						Com	tpany:								Comp	аву:					

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.

Grand Zmeinghinie





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

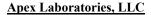
 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

Address:	CB8 IN 1974 Parity COC8 Parity Parit	Oil Wendeller		
19. Chr. 2 Dus. 3 Dus. 3 Dus. 3 Dus. 3 Dus. 3 Dus. 4 Dus. 4 Dus. 4 Dus. 5 Dus. 5 Dus. 6 Dus.	CB8 OCS Full List BDW POCS BDW POCS	i	Project #: 2017 - 0.21	1
WALEH-DE WALEH-DE WALEH-RCID WALENZ CB8 III LYBE OC2 Enji Ff86 JUD AVR8 JUD AOC8 BDW AOC8		PO#	1	
	CB8 OC8 EMI FIST OC8 EMI FIST HID AOC8 BDW AOC8	ANALYSIS REDITEST		
	CB ⁸ FW LVH ⁸ OC ⁸ E ^{III} I TI ⁸ C I ^{II} IO AOC ⁸ RDW AOC ⁸	,8. ,9. ,T.,		
WALEH-HCID	CB ⁸ OC ⁸ Enll BDW AOC BDW AC	(£1	5. L	
	(N)	etals ((8) sts:	
Nath Otto Nath	A 09 H 09	RA Me ority M b, As, 1 co, Cu, Mo, M,	ı Μ 4.1 √51	
\$24/n 680 in.e 8 X \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	808 278 278 278 278 278	ьч вс	эт Д	улср
<u></u>	×	Total	×	-
				-
				-
12 WO : - W				+
MW100 -W 8/24/7 1020				-
				\perp
		F	4 6	
nk-w 8/24/19 0715 1420 4 18/1				
Normal Turn Around Time (TAT) = 10 Business Days	SPECIAL INSTRUCTIONS	SNC:		4
1 Day 2 Day 3 Day				
1A1 Kequested (circle) 4 DAY 5 DAY Other:				
SAMPLES ARE HELD FOR 30 DAYS				
RELINQUISHED BY: Back: Signature: Date: Date: Date:	RELINQUISHED BY: Signature:	Date	RECEIVED BY:	
Scaling Com	8/20/19	-Alb/	Date:	
Printed Name: C Tune Phil 588 PUCA	Printed Name:	Time:	Printed Name: Time:	
Com	Соправу:	The second secon	Сотрану:	

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.

Grand Zmeinghinie





<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

6700 SW Sandburg St., Tigard, OR 97223 Ph.: 503-718-2323	97223 Ph: 503	-718-23	33																				
Company: 14 Srs Con	Project N	Project Mgr. Crain	1 4	Hultoran	275			Proje	Project Name: () lemon):au:	Pole	300		Ü,T	1	Wenathe	Project#:)cl #:	1	2017	140-	I	
Address:			100	Phone:	ne:				ш	Email:							# Od						
Sampled by: Chars Dasche	Sel												¥	MLX	SISR	ANALYSIS REQUEST							
Site Location: OR WA CA AK ID SAMPLE ID	DATE	TIME	# OF CONTAINERS	NWTPH-HCID	xG-H4TWN	AWTPH-Gx	8500 BLEX	8700 KBDW AOC8	8760 Halo VOCs	8700 AOCs Full List	\$HVJ WIS 0728	8270 Semi-Vols Full List	8087 PCBs	8081 Pest RCRA Metals (8)	(0) SIMANU VANAM	(D) Mo, M, K, Se, Ag, Ma, TI,	TCLP Metals (8)	<u> </u>	155K 17551	Sulfate			усфіче
M-2101MW	Spenie	520	Heo 8	-	×	×	×				 		-	-	-	Total Mr		×	X	×	1	+	-
TAT Requested (circle) SAMP RELINQUISHED BY: Signature: Chers Chers Lights Company: 14 gels Company.	Normal Turn Around Unite (TAT) = 10 Business Days 1 Day 2 Day 3 Day 4 DAY 5 DAY SAMPLES ARE HELD FOR 30 DAYS SAMPLES ARE HELD FOR 30 DAYS RECEIVED BY: Date: Signature Tune: Printed Numer USES AND	2 Day 3 Day 2 Day 3 Day 2 Day 3 Day LD FOR 30 DAYS RECEIVED BY: Signature Printed Nature Contigony: Company:	Day 3 Day Day 3 Day DAY Other: DAY Other: DAY Other: DAY OTHER MAYSAR CAPA Ampany: Aprex (abs	Duy Ses Days		Date:	S/29/19 17me: 1455	1 2 1		SPECIAL III SPECIAL III SPECIAL III SPECIAL III SPECIAL III Company:	SPECIAL INSTRUCE Signature: Printed Name: Company:	NSTR	SPECIAL INSTRUCTIONS SPECIAL INSTRUCTIONS Signature: Franted Name:			Date:	RECEIVED BY: Signature: Printed Name: Company:	RECEIVED 1 Signature: Printed Name: Company:	B B K;			Date:	

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.

Apex Laboratories, LLC



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

<u>HydroCon LLC</u> Project: <u>Coleman Wenatchee</u>

 314 W 15th Street Suite 300
 Project Number: 2017-074
 Report ID:

 Vancouver, WA 98660
 Project Manager: Craig Hultgren
 A9H0906 - 09 18 19 0843

APEX LABS COOLER RECEIPT FORM Hydro Con Element WO#: A9 Project/Project #: Coleman Oil Wengtchese **Delivery Info:** Date/time received: 8129 9 9 1455 By: ACK Delivered by: Apex Client X ESS FedEx UPS Swift Senvoy SDS Other Cooler Inspection Date/time inspected: 829 9 9 1500 By: AFF Chain of Custody included? Yes X No ___ Custody seals? Yes____ No_X Signed/dated by client? Yes <u>×</u> No Signed/dated by Apex? Yes Y No Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7 Temperature (°C) Received on ice? (Y/N) Temp. blanks? (Y/N) N W Ice type: (Gel/Real/Other) Real Real Real Rea Condition: 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: \[\frac{12919}{2019} \] All samples intact? Yes X No __ Comments: Bottle labels/COCs agree? Yes _ No __ Comments: 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_ Comment 2 #35 MWOIS-W, 2+5/720038-W, Water samples: pH checked: Yes No_NA_ pH appropriate? Yes No_NA_ Comments: Additional information: 4 TBs provided but not leved on Col OB SRAIG Labeled by Cooler Inspected by: See Project Contact Form: Y

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.



September 17, 2019



EPA Methods TO14A, TO15

UT Cert CA0133332015-3 EPA Methods T03, T014A, T015, RSK-175

Apex Laboratories ATTN: Lisa Domenighini 6700 S.W. Sandburg Street Tigard, OR 97223

LABORATORY TEST RESULTS

Project Reference: A9H0906

Lab Number: K090406-01/30

Enclosed are results for sample(s) received 9/04/19 by Air Technology Laboratories. Sample was received intact and chilled to 3° C. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson

Operations Manager

MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

Apex Laboratories A9H0906

MF 8-30-19 090406-01/80

AKK 913/19

SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223

Phone: (503) 718-2323 Fax: (503) 336-0745

Project Manager:

Released By

Released By

UPS (Shipper)

Date

Lisa Domenighini

RECEIVING LABORATORY:

Air Technology Laboratories, Inc

18501 E. Gale Ave Suite 130

City of Industry, CA 91748

Phone:(626) 964-4032

Fax: (626) 964-5832

Sample Name: A9H0906-01		Water Sampled	: 08/26/19 11:30	(MW01S-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 11:30	HS in C & E conts.	
Sample Name: A9H0906-02		Water Sampled	: 08/26/19 10:40	(MW03S-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 10:40	HS in E cont.	
Sample Name: A9H0906-03		Water Sampled	: 08/26/19 10:20	(MW06-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 10:20		
Sample Name: A9H0906-04		Water Sampled	: 08/26/19 14:00	(MW08-W)
Analysis	Due	Expires	Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 14:00		

UPS (Shipper)

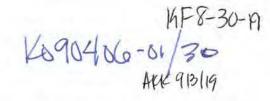
Received By

Received By

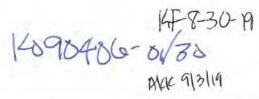
Page 1 of 7

Date

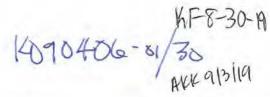
Dåte



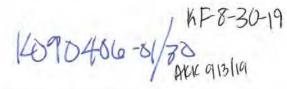
Sample Name: A9H0906-05		Water	Sampled:	08/27/19 07:50	(MW09R-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/10/19 07:	50		
Sample Name: A9H0906-06		Water	Sampled:	08/26/19 13:10	(MW11-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 13:	10		
Sample Name: A9H0906-07		Water	Sampled:	08/26/19 10:00	(MW12-W)
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 10:	00		
Sample Name: A9H0906-08		Water	Sampled:	08/26/19 11:30	(MW13R-W)
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 11:	30	E cont. has HS	
Sample Name: A9H0906-09		Water	Sampled:	08/26/19 12:15	(MW14-W)
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 12:	15		
	Hano	had to	47		
WALG 98/19 1.	3.40	UPS (Shippe	r)		3°
Released By Date UPS (Shipper)		Received By	7 -	9/4/Date	1515
Released By Date		Received By	1	Date	-



Sample Name: A9H0906-10		Water	Sampled:	08/26/19 12:30	(MW16-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 12:3	0		
Sample Name: A9H0906-11		Water	Sampled:	08/26/19 14:20	(MW17-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 14:2	0		
Sample Name: A9H0906-12		Water	Sampled:	08/28/19 07:20	(MW20-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/11/19 07:2	0		
Sample Name: A9H0906-13		Water	Sampled:	08/27/19 08:45	(MW21-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/10/19 08:4	5		
Sample Name: A9H0906-14		Water	Sampled:	08/26/19 09:30	(MW23-W
Analysis	Due	Expires		Comments	•
	09/12/19 17:00	09/09/19 09:3	0		
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL					
Containers Supplied: (D)40 mL VOA - HCL	Stand	Land TF	FI		¥.
Containers Supplied: (D)40 mL VOA - HCL	Stand	UPS (Shipper)	FT T		3.0



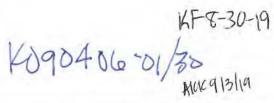
a and a second s	A	7110700			18.5
Sample Name: A9H0906-15		Water	Sampled:	08/27/19 09:30	(MW24-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/10/19 09:.	30		
Sample Name: A9H0906-16		Water	Sampled:	08/27/19 11:20	(MW25-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/10/19 11:	20		
Sample Name: A9H0906-17		Water	Sampled:	08/27/19 12:00	(MW26-W)
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/10/19 12:	00		
Sample Name: A9H0906-18		Water	Sampled:	08/28/19 07:30	(MW27-W)
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/11/19 07::	30		
Sample Name: A9H0906-19		Water	Sampled:	08/27/19 13:00	(MW28-W)
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/10/19 13:0	00		
	Stano	lass J	AT		70
MAL] 4/3/19 13 Released By Date	:40	UPS (Shipper	r)	Date	30
UPS (Shipper) Released By Date		Received By	1-	9/4/19 Date	1015



A	9H0906			
	Water	Sampled:	08/27/19 10:20	(MW30-W)
Due	Expires		Comments	
09/12/19 17:00	09/10/19 10:2	20	Sediment in all voas	
	Water	Sampled:	08/27/19 08:10	(MW31-W)
Due	Expires		Comments	
09/12/19 17:00	09/10/19 08:1	10		
	Water	Sampled:	08/26/19 13:20	(MW32-W)
Due	Expires		Comments	
09/12/19 17:00	09/09/19 13:2	20		
	Water	Sampled:	08/27/19 13:50	(BH01-W)
Due	Expires		Comments	
09/12/19 17:00	09/10/19 13:5	50		
	Water	Sampled:	08/27/19 09:10	(BH02-W)
Due	Expires		Comments	
09/12/19 17:00	09/10/19 09:1	10		
Stan	dans (AT		
BWO -	UPS (Shipper	·)		306
11.711				
	Due 09/12/19 17:00 Due 09/12/19 17:00 Due 09/12/19 17:00 Due 09/12/19 17:00	Water	Water Sampled:	Due Expires Comments 09/12/19 17:00 09/10/19 10:20 Sediment in all voas Water Sampled: 08/27/19 08:10 Due Expires Comments 09/12/19 17:00 09/10/19 08:10 Due Expires Comments 09/12/19 17:00 09/09/19 13:20 Water Sampled: 08/26/19 13:20 Due Expires Comments 09/12/19 17:00 09/10/19 13:50 Due Expires Comments 09/12/19 17:00 09/10/19 13:50 Due Expires Comments 09/12/19 17:00 09/10/19 09:10 Standard TAT

SUBCONTRACT ORDER

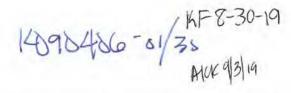
Apex Laboratories A9H0906



Sample Name: A9H0906-25		Water	Sampled:	08/28/19 08:15	(BH03-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/11/19 08:1	5		
Sample Name: A9H0906-26		Water	Sampled:	08/28/19 08:15	(RW01-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/11/19 08:1	5		
Sample Name: A9H0906-27		Water	Sampled:	08/26/19 10:20	(MW100-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 10:2	20		
Sample Name: A9H0906-28		Water	Sampled:	08/26/19 14:30	(MW101-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/09/19 14:3	60		
Sample Name: A9H0906-29		Water	Sampled:	08/27/19 14:00	(MW102-W
Analysis	Due	Expires		Comments	
RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL (E)40 mL VOA - HCL	09/12/19 17:00	09/10/19 14:0	00		
	Stand	UPS (Shipper	A7		3°C
Released By Date		Received By		/ Date	

SUBCONTRACT ORDER

Apex Laboratories A9H0906



S	Sample Name: A9H0906-31		Water Sam	pled: 08/27/19 10:25	(MW10R-W)
	Analysis	Due	Expires	Comments	
0	RSK 175 Preserved (Meth, Eth, Eth) (Sub) Containers Supplied: (D)40 mL VOA - HCL	09/12/19 17:00	09/10/19 10:25		
	(E)40 mL VOA - HCL				

Standard TAT

UPS (Shipper) Released By Received By Date UPS (Shipper) w Released By Date Received By Page 7 of 7

Apex Laboratories

Attn:

Lisa Domenighini

Project Name:

NA

Project No .:

A9H0906

Date Received:

09/04/19

Matrix:

Water

Reporting Units: ug/L

RSK175

Lab No.:	K0904	06-01	K0904	06-02	K0904	06-03	K090406-04		
Client Sample I.D.:		MW01S-W (A9H0906-01)		3S-W 906-02)	MW0 (A9H09		MW08-W (A9H0906-04)		
Date/Time Sampled:	Analyzed: 9/6/19 16:44 9/6/19 16:56 atch No.: 190906GC8A2 190906GC8A2		3/26/19 11:30 8/26/19 10:40		8/26/19	8/26/19 10:20		14:00	
Date/Time Analyzed:			9/6/19	17:08	9/6/19 17:19				
QC Batch No.:			190906GC8A2 190906GC8A2		1909060	GC8A2	190906GC8A2		
Analyst Initials:			CI	M	CN	M .	CN	M .	
Dilution Factor:	1.0	0	1.	0	1.0	0	CM 1.0	0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
Methane	21	1.0	29	1.0	3,100	1.0	8,100	1.0	

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

The cover letter is an integral part of this analytical report

Date 9-17-19

Apex Laboratories

Attn:

Lisa Domenighini

Project Name:

NA

Project No.:

A9H0906

Date Received:

09/04/19

Matrix:

Water

Reporting Units: ug/L

RSK175

Lab No.:	K0904	06-05	K0904	06-06	K0904	06-07	K0904	06-08
Client Sample I.D.:	MW09 (A9H09		MW0: (A9H09		MW1 (A9H09		MW13 (A9H09	
Date/Time Sampled:	8/27/19 7:50		8/26/19	13:10	8/26/19 10:00		8/26/19 11:30	
Date/Time Analyzed:	9/9/19	9/9/19 10:26		11:47	9/7/19	11:58	9/7/19	12:10
QC Batch No.:	190909GC8A1 CM		1909060	GC8A2	1909060	GC8A2	1909060	GC8A2
Analyst Initials:			CI	М	CN	VI	CN	1
Dilution Factor:	1.0	0	1.0	0	1.0		1.0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methane	540	1.0	6,300	1.0	7.3	1.0	200	1.0

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

The cover letter is an integral part of this analytical report

Apex Laboratories

Attn:

Lisa Domenighini

Project Name:

NA

Project No.:

A9H0906

Date Received:

09/04/19

Matrix:

Water

Reporting Units: ug/L

RSK175

Lab No.:	K0904	06-09	K0904	06-10	K0904	06-11	K090406-12	
Client Sample I.D.:	MW1 (A9H09		MW1 (A9H09		MW1 (A9H09		MW2 (A9H09	
Date/Time Sampled:	8/26/19 12:15		8/26/19 12:15 8/26/19 12:30		8/26/19	8/26/19 14:20		7:20
Date/Time Analyzed:	9/7/19	9/7/19 12:21		9/7/19 12:34		9/7/19 12:45		13.7360/m855
QC Batch No.:	190906GC8A2 CM		190906GC8A2 190906G0		1909060	GC8A2	190909GC8A	
Analyst Initials:			CN	M	CN	M	CN	1
Dilution Factor:	1.0	0	1.0 1.0		1.0		CM 1.0 Result R ug/L ug.)
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L		RL ug/L
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methane	1,400	1.0	ND	1.0	4,100	1.0	99	1.0

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

Date 9-17-19

The cover letter is an integral part of this analytical report

Apex Laboratories

Attn:

Lisa Domenighini

Project Name:

NA

Project No.:

A9H0906

Date Received:

09/04/19

Matrix:

Water

Reporting Units: ug/L

RSK175

Lab No.:	K0904	06-13	K090406-14		K0904	06-15	K090406-16		
Client Sample I.D.:	MW2 (A9H09		MW2 (A9H09		MW2 (A9H09		MW2 (A9H09		
Date/Time Sampled:	8/27/19 8:45		8/26/19 9:30 8/		8/27/19	8/27/19 9:30		8/27/19 11:20	
Date/Time Analyzed:	9/9/19	9/9/19 10:49		9/7/19 12:56		9/9/19 11:06		11:17	
QC Batch No.:	190909GC8A1		190906GC8A2		190909GC8A1		190909GC8A1		
Analyst Initials:	CM		CN	M	CN	1	CN	M .	
Dilution Factor:	1.0	0	1.0	0	1.0		CM 1,0	0	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
Methane	1,700	1.0	140	1.0	640	1.0	3.1	1.0	

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

The cover letter is an integral part of this analytical report

Date _ 9-17-19

Apex Laboratories

Attn:

Lisa Domenighini

Project Name:

NA

Project No.:

A9H0906

Date Received:

09/04/19

Matrix:

Water

Reporting Units:

ug/L

RSK175

Lab No.:	K0904	06-17	K0904	06-18	K090406-19		K090406-20			
Client Sample I.D.:		MW26-W (A9H0906-17)				MW2 (A9H09	St. Coope	MW30-W (A9H0906-20)		
Date/Time Sampled:	8/27/19	12:00	8/28/19	9 7:30	8/27/19	13:00	8/27/19	10:20		
Date/Time Analyzed:	9/9/19	9/9/19 11:31		9/9/19 11:42		9/9/19 11:54		12:05		
QC Batch No.:	190909GC8A1 CM		1909090	GC8A1	1909090	GC8A1	190909GC8A1			
Analyst Initials:			CN	M	CN	1	CN	M .		
Dilution Factor:	1.0	0	1.0	0	1.0		CM 1.0	0		
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L		
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
Methane	20	1.0	500	1.0	2,100	1.0	790	1.0		

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

Date 9-17-15

The cover letter is an integral part of this analytical report

Client: **Apex Laboratories**

Attn: Lisa Domenighini

Project Name: NA

Project No .: A9H0906 Date Received: 09/04/19 Matrix: Water

Reporting Units: ug/L

RSK175

Lab No.:	K0904	06-21	K0904	06-22	K0904	06-23	K090406-24		
Client Sample I.D.:	MW3 (A9H09	30V (1510)	MW3 (A9H09		BH03 (A9H09		BH02 (A9H09		
Date/Time Sampled:	8/27/19 8:10		8/27/19 8:10 8/26/19 13:20		8/27/19	13:50	8/27/19 9:10		
Date/Time Analyzed:	9/9/19	9/9/19 12:17		13:08	9/9/19	12:28	9/9/19	12:39	
QC Batch No.:	190909GC8A1 CM		190909GC8A1 190906GC8A2		190909GC8A1		190909GC8A1		
Analyst Initials:			CI	M	CN	M .	CN	1	
Dilution Factor:	1.0	0	1.	0	1.0	0	CM 1.0)	
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
Methane	230	1.0	38	1.0	2,100	1.0	2,200	1.0	

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _

Mark Johnson **Operations Manager** Date 9-17-19

The cover letter is an integral part of this analytical report

Apex Laboratories

Attn:

Lisa Domenighini

Project Name:

NA

Project No.:

A9H0906

Date Received:

09/04/19

Matrix:

Water

Reporting Units: ug/L

RSK175

Lab No.:	K0904	06-25	K0904	06-26	K0904	06-27	K0904	06-28
Client Sample I.D.:		BH03-W (A9H0906-25)		1-W 006-26)	MW10 (A9H09	apara and	MW101-W (A9H0906-28)	
Date/Time Sampled:	ed: 9/9/19 12:50 9/9 o.: 190909GC8A1 1909		8/28/19 8:15 8/28/19 8:15		8/26/19	8/26/19 10:20 9/7/19 13:19		14:30
Date/Time Analyzed:			9/9/19	9/9/19 13:03				13:31
QC Batch No.:			1909090	GC8A1	1909060	190906GC8A2		GC8A2
Analyst Initials:			CI	M	CN	И	CN	1
Dilution Factor:	1.	0	1.0	0	1.0			0
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L		RL ug/L
Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methane	1,500	1.0	340	1.0	3,700	1.0	3,800	1.0

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

The cover letter is an integral part of this analytical report

Date 9-17-19

Apex Laboratories

Attn:

Lisa Domenighini

Project Name:

NA

Project No.:

A9H0906

Date Received:

09/04/19

Matrix:

Water

Reporting Units: ug/L

RSK175

Lab No.:	K0904	06-29	K0904	06-30						
Client Sample I.D.:		MW102-W (A9H0906-29)				A C. (0.00)				
Date/Time Sampled:	8/27/19 14:00		8/27/19 14:00 8/27/19 10:25							
Date/Time Analyzed:	9/9/19 13:17		9/9/19 13:29							
QC Batch No.:	190909GC8A1		190909GC8A1							
Analyst Initials:	CM		CN	M						
Dilution Factor:	1.0	1.0		1.0 1.0						
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L						
Ethene	ND	1.0	ND	1.0						
Ethane	ND	1.0	ND	1.0						
Methane	1,900	1.0	1,600	1.0						

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

The cover letter is an integral part of this analytical report

page 1 of 1

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190906GC8A2

Matrix: Air Reporting Units: ug/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD	BLANK		L	CS	LC	CSD				
Date/Time Analyzed:	9/6/19 1	15:39		9/6/19	16:07	9/6/19	9 16:21				
Analyst Initials:	CM/	CM/AS		CN	1/AS	CN	1/AS	A			
Dilution Factor:	1.0				.0	- 0	.0				
ANALYTE	Result ug/L	RL ug/L	SPIKE AMT. ug/L	Result ug/L	% Rec.	Result ug/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Ethene	ND	1.0	1,150	1,040	90,6	1,130	99.0	8.8	70	130	30
Ethane	ND	1.0	1,230	1,190	96.7	1,260	103	6.3	70	130	30
Methane	ND	1.0	654	630	96.3	665	102	5.4	70	130	30

ND= Not Detected (below RL) RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson Operations Manager

The cover letter is an integral part of this analytical report

Date 9-17-19

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190909GC8A1

Matrix: Air Reporting Units: ug/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD	BLANK		L	CS	LC	CSD				
Date/Time Analyzed:	9/9/19	9:28		9/9/1	9 9:52	9/9/19	10:03				
Analyst Initials:	CM/	AS		CN	1/AS	CN	1/AS				
Dilution Factor:	1.0			1	.0		.0				
ANALYTE	Result ug/L	RL ug/L	SPIKE AMT. ug/L	Result ug/L	% Rec.	Result ug/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Ethene	ND	1.0	1,150	1,190	104	1,060	92.9	11.6	70	130	30
Ethane	ND	1.0	1,230	1,280	104	1,220	99.6	4.7	70	130	30
Methane	ND	1.0	654	665	102	643	98.2	3.5	70	130	30

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson Operations Manager

The cover letter is an integral part of this analytical report

Date 9-17-19

1



CASCADE ANALYTICAL

1-800-545-4206

(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum Rdiccount: 20791

Union Gap, WA 9890Sampler: Robert Horsberger

PO Number:

Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029040 Sample Identification: MW08-W Date Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	357. 357. < 5 < 0.1 < 0.05	mg/L 5 mg/L 5 mg/L 5 mg/L 5 mg/L 0.1 mg/l 0.05	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 5/19 9/ 5/19 9/ 5/19 9/ 5/19 9/ 5/19 8/27/19

Approved By Name:

Andy Schut Lab Manager/Yakima

Signature:

aft

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

(509) 452-7707 Batch: 997704 Fax: (509) 452-7773 Client: HydroCon 1008 W. Ahtanum RACcount: 20791

Union Gap, WA 989@ampler: Robert Horsberger

PO Number:

-- Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver. WA 98626

Laboratory Number: 19-E029041 Sample Identification: MW11-W Date Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units RL	Method	Date Analyzed Fla	ag 5
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	334. 334. < 5 < 0.1 < 0.05	mg/L 5 mg/L 5 mg/L 5 mg/L 0.1 mg/l 0.05	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 5/19 9/ 5/19 9/ 5/19 8/27/19 8/27/19	

Approved By Name:

Andy Schut Lab Manager/Yakima

Signature:

age

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:

1 of

1



A EUROFINS COMPANY 1-800-545-4206

(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791

Union Gap, WA 989@ampler: Robert Horsberger

PO Number:

Analytical Report Water

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029042 Sample Identification: MW14-W

Date Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	414. 414. < 5 < 0.1 < 0.05	mg/L 5 mg/L 5 mg/L 5 mg/L 5 mg/L 0.1 mg/l 0.05	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 5/19 9/ 5/19 9/ 5/19 8/27/19 8/27/19

Approved By Name:

Andy Schut Lab Managen/Yakima

Signature:

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page: 1 of

1



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum Rdiccount: 20791

Union Gap, WA 989@ampler: Robert Horsberger

PO Number:

Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029043
Sample Identification: MW13R-W

Date Received: 8/27/19

Date Sampled: 8/26/19

Te	st Requested	Results	Units	RL	Method	Date Analyzed	Flags
A	lkalinity (as CaCO3)	333.	mg/L	5	SM 2320-B	9/ 5/19	
В	icarbonate (as CaCO3)	333.	mg/L	5	SM 2320-B	9/ 5/19	
C	arbonate as CaCO3	< 5	mg/L	5	SM 2320-B	9/ 5/19	
S	ulfate	50.6	mg/L	0.5	EPA 300.0	8/27/19	
N	itrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/27/19	

Approved By Name:

Andy Schut Lab Manager/Yakima

Signature:

agh

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum Raccount: 20791

Union Gap, WA 989@ampler: Robert Horsberger

PO Number:

Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029044 Sample Identification: MW06-W ___Date_Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3)	241.	mg/L 5	SM 2320-B	9/ 5/19
Bicarbonate (as CaCO3)	241.	mg/L 5	SM 2320-B	9/ 5/19
Carbonate as CaCO3	< 5	mg/L 5	SM 2320-B	9/ 5/19
Sulfate	8.79	mg/L 0.1	EPA 300.0	8/27/19
Nitrate-N/Nitrite-N	< 0.05	mg/l 0.05	EPA 300.0	8/27/19

Approved By Name:

Andy Schut Lab Manager/Yakima

Signature:

aft

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:

1 of

1



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum Rdiccount: 20791

Union Gap, WA 989@ampler: Robert Horsberger

PO Number:

Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029045 Sample Identification: MW100-W Date Received: 8/27/19
Date Sampled: 8/26/19

Test Requested Results Units RL Method Date Analyzed Flags SM 2320-B 9/ 5/19 Alkalinity (as CaCO3) 240. mg/L 9/ 5/19 mg/L 5 Bicarbonate (as CaCO3) 240. SM 2320-B mg/L 5 Carbonate as CaCO3 < 5 SM 2320-B 9/ 5/19 EPA 300.0 Sulfate 8.31 mq/L Ø. 1 8/27/19 0.05 Nitrate-N/Nitrite-N < 0.05 mg/l EPA 300.0 8/27/19

Andy Schut

Approved By Name: Lab Manager/Yakima

Signature:

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum Rdiccount: 20791

Union Gap, WA 989@Bampler: Robert Horsberger

PO Number:

Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029046 Sample Identification: MW23-W Date Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	284. 284. < 5 43.1 < 0.05	mg/L 5 mg/L 5 mg/L 5 mg/L	1	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 5/19 9/ 5/19 9/ 5/19 8/27/19 8/27/19	

Andy Schut

Approved By Name: Lab Manager/Yakima

Signature:

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum Rencount: 20791

Union Gap, WA 989@ampler: Robert Horsberger

PO Number:

Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029047 Sample Identification: MW17-W

Date Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	418.	mg/L 5	SM 2320-B	9/ 5/19	
Bicarbonate (as CaCO3)	418.	mg/L 5	SM 2320-B	9/ 5/19	
Carbonate as CaCO3	< 5	mg/L 5	SM 2320-B	9/ 5/19	
Sulfate	0.32	mg/L 0.1	EPA 300.0	8/27/19	
Nitrate-N/Nitrite-N	< 0.05	mg∕1 Ø.05	EPA 300.0	8/27/19	

Approved By Name:

Andy Schut

Function:

Lab Manager/Yakima

Signature:

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER, DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE DUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum Raccount: 20791

Union Gap, WA 989@ampler: Robert Horsberger

PO Number:

Analytical Report Water

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029048 Sample Identification: MW101-W Date Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	4090 4090 < 5 0.23 < 0.05	mg/L 5 mg/L 5 mg/L 5 mg/L 0.1 mg/l 0.05	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 5/19 9/ 5/19 9/ 5/19 8/27/19 8/27/19

Approved By Name:

Function:

Andy Schut Lab Manager/Yakima

Signature:

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:



(509) 662-1888 Fax: (509) 662-8183 3019 G. Ś. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791

Union Gap, WA 989@ampler: Robert Horsberger

PO Number:

Water Analytical Report

Report Date: 9/9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029049 Sample Identification: MW32-W

Date Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units RL	. Method	Date Analyzed	Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	279. 279. < 5 22.7 0.35		SM 2320-B SM 2320-B SM 2320-B 0.1 EPA 300.0	9/ 5/19 9/ 5/19 9/ 5/19 8/27/19 8/27/19	

Approved By Name:

Andy Schut Lab Manager/Yakima

Signature:

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791

Union Gap, WA 989 Bampler: Robert Horsberger

PO Number:

Water Analytical Report

Report Date: 9/9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029050 Sample Identification: MW16-W

Date Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	306.	mg/L 5	SM 2320-B	9/ 6/19
	306.	mg/L 5	SM 2320-B	9/ 6/19
	< 5	mg/L 5	SM 2320-B	9/ 6/19
	22.2	mg/L 0.1	EPA 300.0	8/27/19
	2.00	mg/l 0.05	EPA 300.0	8/27/19

Approved By Name:

Andy Schut

Signature:

Function:

Lab Manager/Yakima

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791 1008 W. Ahtanum Roccount: 20791

Union Gap, WA 989 Bampler: Robert Horsberger

PO Number:

Analytical Report Water

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029051 Sample Identification: MW015-W Date Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	185. 185. < 5 78.4 Ø.75	mg/L 5 mg/L 5 mg/L 5 mg/L mg/l	5	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 8/27/19 8/27/19	

Approved By Name:

Andy Schut

Lab Manager/Yakima

Signature:

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum R. Account: 20791

Union Gap, WA 989@Bampler: Robert Horsberger

PO Number:

Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029052 Sample Identification: MW035-W Date Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	230, 230, < 5 25.4 < 0.05	mg/L mg/L mg/L mg/L mg/l	5	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 8/27/19 8/27/19	

Approved By Name:

OF AFTER SIX WEEKS.

Function:

Andy Schut

Lab Manager/Yakima

Signature:

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997704 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 (11 ent : Ayarat 1008 W. Ahtanum Rd ccount : 20791

Union Gap, WA 989 Bampler: Robert Horsberger

PO Number:

Analytical Water Report

Report Date: 9/9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029053 Sample Identification: MW12-W

Date Received: 8/27/19

Date Sampled: 8/26/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	175. 175. < 5 39.5 < 0.05	mg/L ! mg/L ! mg/L ! mg/L ! mg/L	5	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 8/27/19 8/27/19	

Approved By Name:

Andy Schut

Lab Manager/Yakima

Function:

Signature:

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:



CAICOF - 03

3019 G. S. Center Rd. Wenatchee, WA 98801 (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

Batch# 997714	SAMPLE#										
	1	2	3	4	5						
SEND-RESULTS TO	1	1	1		T						
1) Client 2) Billing 3) Both	1			ŀ	1						
SAMPLE REPRESENTS					Г						
1) Irrigation 2) Waste Water (3) Other		1									
SAMPLE BY	166				Г						
(1) Client 2) Quality Control 3) Cascade 4) Other	100		1		1						

1110 Sodium (Na)

REV. 04/26/2013

	and the same of th	\wedge $$.				Ahtanum F			Client 2) Bill SAMPLE REPRES 1) Irrigation 2)	SENTS	(3) Other	······································		-	$\left - \right $	H	
		`		3/192	(509) 452	ıp, WA 989 2-7707	<i>3</i> 03	ŀ	SAMPLE BY					165		\vdash	
CASCADI	E A	NALY	TICAL	INC.) 452-777	3	_	(1) Client) 2) Qu	ality Control	3) Cascade	4) Othe	r	<u></u>	L		
	-		—	,					New Acct.#	-10	7	(see le	egend on back)		SAN	MPLE	#
									-a) / <u>/</u>		IRR	IGATION WATER	1	2	3	4
CLIENT NAME/AD	DRESS	3		٨	egypenen Berei Sie og vi		IAME/ADDR				STANDER STAND		Standard		7.47	\$20.0	
Crains NAME/AC	Hu	Iteran	glob H	garoca	00	76	- سر	05	client	(MA) CANN	inia.s		GENERAL CHEMI	STRY	,		
314 W	10.51	$\langle \gamma \rangle$			149 17136	is typing			PARTE N		THE AT	1135	рН	374			
214 W	13 -	- >t .	Sulc	<u> 500</u>		710 BY	<u>Tarrida</u>	<u> </u>	ivini/lbbit	swingst wi		1140	Conductivity				
4		. 4	000	21								1200	Solids-Dis. (TDS)				
Vancour		2014	7 50	<u>~~~</u>		PHONE	tion of the second	1 350 5345	10 S 1 1 1 2 2 2 2 1 2 2 1 1 1			1230	Solids-Susp. (TSS)				
SAMPLER'S N	VIME	1100)	_		1	Z -85	56-66	79			1240	Tot. Phosphorus				_
Lozur	[-]	ب ١٠٥٨	> ough	Marian Property of the Control of th	<u> </u>	L	D.	<u> </u>	<u>Mir Jalusta As</u>	<u>Yanggan Gir</u>	61, 95	1250	Orthophosphate	7.7			
E-mail Crox	414	3 Hac	drocon	Mc. Ne	e+	E-mail						1260	Kjektahl Nitrogen (TKN)				_
RELINQUISHED 8	~>		DATE	γ	SHED BY: (Sigr	nature) 2	DATE	RELINQ	UISHED BY: (Sign	ature) 3	DATE	1170	Nitrate+Nitrite	X	$\overline{\times}$	$\overline{\mathbf{x}}$	$\overline{\mathbf{x}}$
12/1		स अंग्रिट	8.26-19	Q : X0.8/A		Y. 389 90		KARAW.	A WARACTOR	VA F		1265	NO3 (As N)				H
DAN.			3 0 11								N/QA	1280	Ammonia			24	
(Printed)		14.29() \$14.4.	TIME	(Printed)			TIME	(Printed			TIME	1300	Biol. Oxy. Demand	nii,		7.7	\neg
Rol Hand	ا مُسَالًا ومناومها	elen aratika e	1590	Versi kan	a ur abileba	.d.g.e (3181e)	lauis	ladina ja sa		usas Zikit -	Diamen.		Chem. Oxy. Demand	V.1			\exists
70	7,-	notes agreement En la					Elektricksk	a de la com	unit (Brahalia) (Albania)	A GARAGE	ga sayasi i Biringa		Sulfate (SO4)) }	100		-
RECEIVED BY: (S	Signature	e)	DATE	RECEIVED	BY: (Signature		DATE	RECEIV	ED FOR LAB BY: ((Signature)	DATE		Chloride (CI)				
				1 KA	Silo	<u>م</u> ر	3-27-	a					Turbidity				-
		er program	****	7/14/1	294	$\overline{\mathcal{U}}$	TIME	Paragraph (1)					Hexane Ext. Mat.				\dashv
(Printed)			TIME	(Printed)			CARLES .	(Printed)			TIME		Alkalinity	1344		ude le Vi	\dashv
				Kast	in Eric	Can.	1:25					-	Total N Pkg	\dashv	\dashv	+	-
	-								ABLUM				Total 1 1 Ng		-	-	-
FORM MUS	IBF	- COMP	LEIEL	BELO	KE ANAI	_YSIS W	ILL BE	PERF	OKMED.				MICROBIOLOGY				
09040		Muc	8-W	4) Waldala		Maria.	isvált			Sample C	Date Col	-	Total Coliform MF	Jai 1	Sep I	7. 1.	
	1	San Agrica			a angan				<u> </u>	3.11.14	44.4		Fecal Coliform MF		\dashv	+	\dashv
								Of all sources with the same of the same o		Sample T	1 1 1 1 1 1 1 1 1	\vdash	Total Coliform MPN		\dashv	+	-
29041	,	MWI	1-W		Hara May					Sample C ジェンク	Pate		Fecal Coliform MPN		\dashv	+	\dashv
<u>.</u>	-2			ari i jir			(2)		sa Santai (sa)	Sample T	ime		METALS - TOTAL		1887) VE	ᆜ
200110		13.2.11	71		n istaliyad Digarakkak	roverena en Rossio esas				PROPERTY OF STREET	1 3 c. 1 c. 3 c. 1 c. 1 c. 1	-	Antimony (Sb)	7	1330	LVE	_
27042	-3-	15101	4-W							Sample D	5-19	\vdash	Arsenic (As)		\dashv	+	\dashv
ia Ex					rini berg					Sample-T	īme (~		Barium (Ba)		\dashv	-	-
29/1/2		14	30.)ate 26-19		Beryllium (Be)	-	-		-
21000	4	11101	3R-V					461:000.6 334:336.6		20 20 1 N N N N	c. 1.2. (1.2. c.)		- ' ' '		\dashv		\dashv
\$1, 										Sample T	ime SO		Cadmium (Cd) Chromium (Cr)	\dashv	\dashv	+	\dashv
29144		MIN	26- h	<u> </u>						Sample C	Date (2)		Copper (Cu)	\dashv	+		\dashv
~ 10 I J	5-	, , , , ,	ا ۲۰ ا								C. 24 (#1000 VEC 9) (3.1)	\vdash	Iron (Fe)	+	\dashv		\dashv
		MUNC								Sample T	20	-		\dashv	+	± 1	+
*META	LS -	circle ty	pe of a	nalysis -	T=total o	r D=diss	olved						Manganese (Mn)	+	\dashv		-
			-	Ю ₃ , NO ₃ ,								-	Mercury (Hg)	\dashv		-	\dashv
					client wa	s sealed	r k	es	No	-		\vdash	Molybdenum (Mo)			\dashv	\dashv
Samp	le co	ontaine	r receiv	ved by I	aborator	y was s	ealed \	es	No	- Actornova			Lead (Pb)	\dashv			\dashv
Disclaimer:													Nickel (Ni)	\dashv	+		\dashv
Cascade Analy													Selenium (Se)	\dashv	\dashv	+	$\frac{1}{2}$
rom the use of other liability in o													Silver (Ag)	\dashv	+	+	4
varranties collat	eral to	or affecti	ng this a	greement.		•				_			Thallium (TI)	\dashv	+		+
Cascade Analy									s test results	shall be lin	nited to a		Zinc (Zn)				
sum equal to the	1662	paid by Cl	Jawiner 1	io Cascao ∕	e Analytical	, inc. for tr	ie iesiing	WUIK.					MINERALS	age I	3/64 Ti	388 TA	- T
Duelor O'	h	1/5	/s.						Date 🖔	7/219			Calcium (Ca)				4
Customer Signat					<u>fool</u>				nate//	υ-· ·	_	-	Magnesium (Mg)	\dashv	\dashv		+
This form als	SO SE	erves as	s "Cha	in of Cu	ıstodv."							11115	Potassium (K)	10 F		A 🗎	10



3019 G. S. Center Rd. Wenatchee, WA 98801 (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

1008 W. Ahtanum Rd.

WATER ANALY	SIS OF	RDER	FORM
--------------------	--------	------	-------------

Batch# 997704		SA	MPL	E#	
Datc1#	1	2	3	4	5
SEND RESULTS TO	_	 	_		
1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS		-			-
1) Irrigation 2) Waste Water 3) Other			1		
SAMPLE BY		10			\vdash
1) Client 2) Quality Control 3) Cascade 4) Other					

		(509) 452			S	1) Irrigation 2) Was SAMPLE BY 1) Client 2) Quality	te Water Control	3) Other 3) Cascade	4) Othe	NT.	1.37	-	-	+
CASCADE A	NALYTICAI	L, INC. Fax: (509	9) 452-777:	3	·		COIRIO	3) Cascade	4) Othe					
					l _N	ew Acct, #				egend on back)		SAN	MPLE	#
CLIENT NAME/ADDRESS	guiðaren 185 eg á estua Núcesoft Núcesof	2 (3 (3 (4 (3 (3 (4 (3 (4 (3 (4 (4 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	BILLING N	AME/ADDR	PESS	N. 12 (1. 12. 12. 12. 12. 12. 12. 12. 12. 12. 1			IRR	IGATION WATER	1	2	3 4	4
4		٠. وريس	وسا		CS	$C \rightarrow 1$		VVEZOU EL		Standard		Ш		
Craig Hulter	sico Mac	Nocur				- COCK 4-	17-18-19-19-4 1-18-19-19-19-19-19-1	24 (8 7 V) 15 1 16 V (48 S 16 V)		GENERAL CHEMI	STRY	/ 		_
314 W15155	J. S. L. 3.	00							1135	·			\perp	_
	,,,									Conductivity			_	\perp
Vancouver V	NA 98626									Solids-Dis. (TDS)		 	_	-
SAMPLER'S NAME			PHONE			r i gaan.				Solids-Susp. (TSS)		H		_
Kd Harsh	ergen	e feed early and a second	200	2 DZ	3-667	9	ulgara, sul		1240	Tot. Phosphorus	2	1 2	-	
E-mail Craigh	. 9	ne wet	E-mail						1260	Orthophosphate			31	-
		RELINQUISHED BY: (Sign		DATE	Locusion	ISHED BY: (Signature		DATE	1170	Kjeldahl Nitrogen (TKN) Nitrate+Nitrite	X			-
RELINQUISHED BY: (Sign	nature) 1 DATE とど.好	A A STREET, A REAL PROPERTY.	nature) [2]	DATE		isheb BY: (Signature		DATE	1265	NO ₃ (As N)		X	$\frac{1}{X}$	$\langle \rangle$
DAG	0 2 17							Yellar	1280	Ammonia	1,7	3203	7,0	+
(Printed)	TIME	(Printed)	Daries and	TIME	(Printed)	Will What stock	a traile	TIME		Biol. Oxy. Demand	1970	\vdash	+	+
When A. L.	Ster 1540	1			1		1		ļ	Chem. Oxy. Demand			-	+
Total, Militaria	fyr ac Alesta, ta 1997 fan 1999 i n			getan. Garage	Andreas Parties	Delta Diferentia A Sent-America		44,000 to 1		Sulfate (SO4)		\Box	+	+
RECEIVED BY: (Signature	e) DATE	RECEIVED BY: (Signature	9)	DATE	RECEIVE	D FOR LAB BY: (Sign	nature)	DATE		Chloride (CI)		\vdash		-
		Kredi S.	2.1921	8-27-1	h				1150	Turbidity		191) (44)		+
(D-1-1- A)	TIME	(Printed)	UKOH_	TIME	I the same state of			70.45	1320	Hexane Ext. Mat.				+
(Printed)	IIIVIE				(Printed)			TIME	1340	Alkalinity				+
		KristinElic	Eson	1:25			'		-	Total N Pkg		\vdash	+	+
CODM MUST DE	COMPLETE	D BEFORE ANAI	Vele W	III DE	DEDE) DMED				·		\Box	+	\dagger
FORM MOST BE			LI 212 AA	ILL DE	PERF	DUINED.	T			MICROBIOLOGY	1	L		
29045	MM 100 ~ M		ical Nagar	Alaghas Jaar	- A(5960)	0 isi6a yetika	Sample D	ale 5-101	10040	Total Coliform MF	ŵ.		T	T
1			santa Walesia			i kaliferrativa se ao ao	Sample Ti	me	10010	Fecal Coliform MF			\top	\dagger
7901/	n 03								10041	Total Coliform MPN			\top	T
X1070 2	MV23-V			ti. Sis	<u> </u>		Sample D		10011	Fecal Coliform MPN			\top	\top
				ily in the			Sample Ti 이역	30		METALS - TOTAL	OR D	ilssc	DLVEC	,
29047	MW17-4						Sample D	ate G-10a	1391	Antimony (Sb)				
3		68324000		<u></u>			Sample Ti	194 H. P. C. S.	1011	Arsenic (As)				
-0 a/0							15	4	1025	Barium (Ba)				
29048	17 W (U) -	Washington					Sample D	ate ICA	1405	Beryllium (Be)				
							Sample Ti	me	1031	Cadmium (Cd)				
POLLA	141.123				40004V444					Chromium (Cr)		_		1
Q 107 1 5	14w32-						Sample D	As Add March		Copper (Cu)				
							Sample Ti	型0		Iron (Fe)				1
*METALS -	circle type of a	ınalysis - T=total o	r D=diss	olved					 	Manganese (Mn)		4		+
	ckage = TKN, N	-							-	Mercury (Hg)		4		+
Sample co	ontainer recei	ved by client wa			Yes	No No			\vdash	Molybdenum (Mo)	_	-		4
Sample co	ontainer recei	ved by laborator	y was s	ealed \	Yes	No				Lead (Pb) Nickel (Ni)		\dashv	<u>(j)</u> 4 (j)	+
Disclaimer:										Selenium (Se)		-		+
Cascade Analytical,		rranty of any kind, exp								Silver (Ag)	-	-		+
from the use of Casca other liability in conne										Thallium (TI)	-	-	+	+
warranties collateral to	or affecting this a	agreement.	•				•		\perp	Zinc (Zn)	+		+	+
Cascade Analytical I sum equal to the fees		istomer as a result of to Cascade Analytical				test results sha	iii be lim	iited to a	1	MINERALS				
·	/_		-	3	•				-	Calcium (Ca)	100			1 14
Customer Signature:	100 1	lhs/				_ Date_ & ~ 26-	-19		-	Magnesium (Mg)		\exists		1
This form also se		in of Custody"				- "		_		Potassium (K)		T		+
CAICOF - 03		or odolody.					REV. 04	4/26/2013	1110	Sodium (Na)			\exists	



3019 G. S. Center Rd. Wenatchee, WA 98801 (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

WATER ANALYSIS	ORDER FORM
----------------	------------

Batch# 997764		SAMPLE#										
Balcii#	1	2	3	4	5							
SEND RESULTS TO 1) Client 2) Billing 3) Both					Г							
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other												
SAMPLE BY 1) Client 2) Quality Control 3) Cascade 4) Other	Mar											

	1008 W. Ahtanum Rd. Union Gap, WA 98903 (509) 452-7707 Eav. (509) 452-7773 Dictinit 2) Billing 3) Both SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other SAMPLE BY 1) Client 2) Quality Control 3) Cascac							4) Other									
CASCAD!	E A	NALY	TICAL	L, INC.	Fax: (509) 452-7773	3		New Acct, #	Control	J) Cascade	i	~~~		SA	MPLI	L
												·	egend on back)		,		
CLIENT NAME/A	DDRESS	3 / 4 / L 2 / 1/1	galataya yang	78053599,	्रक्ष् _{रिक्} राहरू	BILLING NA	AME/ADDR	ESS	s y spignikana je jakoj je.	dy pod o o			IGATION WATER	73.	2	3	4
Craig Hu			tadro	cun	Santa Santa				dint				Standard				
 1. (2) (1) 21 (2) (2) (2) (2) (2) (2) (2) 					Trip of this	A 10 4 N 10 V	Sili Maria	<u> </u>			rsirister	4405	GENERAL CHEMI	STRY	Y T	1 1	
317 W	1217	- 5}-	Sule	300		W. Sw.					Jan No.	1135	Conductivity				-
	11111												Solids-Dis. (TDS)	-	_		
Vancoure	- W	4 4	8626	1									Solids-Dis. (TDS) Solids-Susp. (TSS)		-		\rightarrow
SAMPLER'S N						PHONE ZGG	- 5/1	1.16	767				Tot. Phosphorus	\vdash			\dashv
Kal	tous	bergu		eriniziake isek	et Near	240	_ 00		1985 - Pari Mayalanda ve va	<u> </u>	1/200 SVA	-	Orthophosphate	7.53.	1.7	7.7	\dashv
E-mail Crois	M (E Hu	clarium	110.No	J	E-mail							Kjeldahl Nitrogen (TKN)		31 110		
	}		DATE		SHED BY: (Sign		DATE	DELING	UISHED BY: (Signatu	~\ [3]	DATE		Nitrate+Nitrite				\pm
RELINQUISHED	or (Sig	nawie)[_ij	8-26-4	 1	, (3igii	atore) [2]	DATE	INELING	ioisi ieu e i . (signatu	(e) [3]	DATE		NO ₃ (As N)	X	1	1	X
12000	<i>/</i>		3 3 7										Ammonia	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4) 4)4-	\dashv
(Printed)	HAVA 1	esiri katest	TIME	(Printed)	With Research	ons runisas e.	TIME	(Printed) 	elewara.	TIME	-	Biol. Oxy. Demand		200	\vdash	-
Kel Hom	يدول		1540									ļ	Chem. Oxy. Demand				\dashv
	T	Gui Efficiel Alfred		Maryles 121911			149 HA	05/34/991/1 - 15/45/34/6					Sulfate (SO4)	dition No.	<u>vició</u> Luci		\dashv
RECEIVED BY: (8	Signatur	e) /_	DATE	RECEIVED	BY: (Signature)	and widdings	DATE	RECEIV	ED FOR LAB BY: (Sig	nature)	DATE	-	Chloride (CI)	333 333	777 72	35. 135. 1	\dashv
I boll C		()	8-27-	9									Turbidity		36.		
W 3/1/2	M!	C	1949 6476	1.10.510.0000								-	Hexane Ext. Mat.	9436 1131	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		\dashv
(Printed)			TIME	(Printed)			TIME	(Printed)		TIME	\vdash	Alkalinity				
Kristin	9.	ton	1:25									-	Total N Pkg	\vdash			+
		1	A	DEFO	DE ANIA.	VOIO 187				<u> </u>			Total 141 kg	-			+
FORM MUS	IBE	E COMP	LEIEL) RELOI	RE ANAL	YSIS W	ILL BE	PERM	ORMED.			-	MICROBIOLOGY			<u> </u>	
D9050	A L	Mul	6-w			taek eas			No lead you'v	Sample t	Date Co-101	-	Total Coliform MF	340		10	71
		334443			Makay			Part 4		Sample	1		Fecal Coliform MF				+
0.00										Walter Break	CONTRACTOR SPECIA	-	Total Coliform MPN			-	+
<u> </u>	2	Muc	nis-W							Sample 0	Ogle 0	\vdash	Fecal Coliform MPN			\dashv	
	ै									Sample 1	Time.	\vdash	METALS - TOTAL	OR C	DISS	DIVE	:: :D
2052		1				danomia					ABOUT THE PARTY OF	1	Antimony (Sb)				_
X IUL	3	Mama	335-W				y koleji (j. j. j. Hazaren era			Sample I	4313 4513 13 NO. CO.	1011	Arsenic (As)				
i.e							Mark			Sample 1	Time 40	\vdash	Barium (Ba)				
19053		1421	フーいん							Sample I	Date		Beryllium (Be)				
	4									15 3 at 3 to 10	504 A 2 4 5 7 4	1031	Cadmium (Cd)			\exists	
	ļ									Sample 1	ع د	1045	Chromium (Cr)				
										Sample I	Date	1215	Copper (Cu)				
										Sample 1	Time	1065	Iron (Fe)				
	<u> Presiden</u>	ev de a statutura				veget, lien green eller,			ny araban ny fianana araban araban	Property (Control	37,500 de Artistation	1075	Manganese (Mn)		7.		
		-	•	-	T=total o	r D=diss	olved					1081	Mercury (Hg)				
				10 ₃ , NO ₂ ,				,				1435	Molybdenum (Mo)				
					lient was			Yes	No			1051	Lead (Pb)				
Samp	ne co	ontaine	rrecen	vea by i	aborator	y was so	ealed	res	No			1335	Nickel (Ni)				
Disclaimer:						,					1.17 1.100	1091	Selenium (Se)				
									tomer assumes a erson to assume			1105	Silver (Ag)			1	
other liability in	conne	ction with	n the test	ing done b	y Cascade				are no other or			1381	Thallium (TI)	\exists			
varranties collat Cascade Anal						customers	use of C	ascade	's test results sha	all he lin	nited to a	1225	Zinc (Zn)	\dashv		1	T
sum equal to the									C tool results she	-11 DC 1111	cu w a		MINERALS		لسند		
		19-		1/2	7							1120	Calcium (Ca)				
Customer Signa	turé:_	K	14	4h					Date_ & - 76.	-19		1130	Magnesium (Mg)			1	T
Γhis form al			s "Cha	in of Cu	stody."						_	1115	Potassium (K)	ा			T
CAICOE - 03	,	30 u			y ·					DEV 0	1/126/2013	1110	Sodium (Na)		18		



Sample Receipt Form

Date Received: 6/26/19 Time Received: _	16:07	Initials:	3
Date Received: 6/26/19 Time Received: _	Project Name:	Water	Analysis
Temperature of cooler upon receipt: 24°C	Thermometer ID	:	
Custody seals: Intact Broken None N/A			
Chain of Custody Completed:			
Client name, address, and phone number;		⟨Yes	No
Date and time of sampling;		Cyes	No
Test requests clear;		Cyes	No
Completed in ink;		(Yes	No
Signed by client;		Yes	No
All samples received:		Yes	No
All samples intact:		Yes	No
Sample ID's match COC form:		CYes	No
Appropriate containers used:		Yes	No
Sufficient amount of sample for analysis:		(Yes)	No
Correct preservative verified:	N/A	Yes	No
Air bubbles in VOC, TTHM, or HAA5 samples:	(N/A	Yes	No
Sample(s) exceed hold time:		Yes	NO)
Type of coolant: ce Blue Ice None Oth	ner Comment: _		***************************************
Shipping Method: FedEx UPS USPS Bret	t & Sons Hand D	elivered CAI	Sampled
Shipping Container: E-CA Cooler E-CA Cooler Box	Client's Cooler	None Oth	ner
Samples accepted for analysis:		Yes	No
Reason for Rejection:			
Name of Person Contacted:	Date Cont	acted:	
Comments:			



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791

Union Gap, WA 989@ampler: Rob PO Number:

Water Analytical Report

> Report Date: 9/9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029243 Sample Identification: MW09R-W Date Received: 8/28/19

Date Sampled: 8/27/19

Test Requested	Results	Units RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	481. 481. < 5 4.97 < 0.05	mg/L 5 mg/L 5 mg/L 5 mg/L 0.1 mg/l 0.05	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 8/28/19 8/28/19

Approved By Name:

Andy Schut

Lab Manager/Yakima

Function:

Signature:

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page: 1 of

1



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon

Fax: (509) 452-7773 Account: 20791 Union Gap, WA 989 Sampler: Rob

PO Number:

Analytical Water Report

Report Date: 9/ 9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029244 Sample Identification: MW28-W

Date Received: 8/28/19

Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	472. 472. < 5 2.39 < 0.05	mg/L mg/L mg/L mg/L mg/l	5	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 8/28/19 8/28/19

Approved By Name:

Function:

Andy Schut Lab Manager/Yakima Signature:

aff

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791

Union Gap, WA 989@ampler: Rob PO Number:

- Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029245 Sample Identification: MW30-W Date Received: 8/28/19

Date Sampled: 8/27/19

Test Requested	Results	Units RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	592.	mg/L 5	SM 2320-B	9/ 6/19
	592.	mg/L 5	SM 2320-B	9/ 6/19
	< 5	mg/L 5	SM 2320-B	9/ 6/19
	2.32	mg/L 0.1	EPA 300.0	8/28/19
	< 0.05	mg/l 0.05	EPA 300.0	8/28/19

Andy Schut

Lab Manager/Yakima

Signature:

Function:

Approved By Name:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791 Union Gap, WA 989@ampler: Rob

PO Number:

Water Analytical Report

> Report Date: 9/ 9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029246 Sample Identification: BH02-W

Date Received: 8/28/19

Date Sampled: 8/27/19

Test Requested	Results	Units RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3)	431.	mg/L 5	SM 2320-B	9/ 6/19	
Bicarbonate (as CaCO3)	431.	mg/L 5	SM 2320-B	9/ 6/19	
Carbonate as CaCO3	< 5	mg/L 5	SM 2320-B	9/6/19	
Sulfate	1.41	mg/L Ø.	1 EPA 300.0	8/28/19	
Nitrate-N/Nitrite-N	< 0.05	mg/l Ø.	05 EPA 300.0	8/28/19	

Approved By Name:

Andy Schut Lab Manager/Yakima

Signature:

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS DR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791 Union Gap, WA 989 Sampler: Rob

PO Number:

Analytical Report Water

> Report Date: 9/ 9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029247 Sample Identification: MW31-W

Date Received: 8/28/19

Date Sampled: 8/27/19

Test Requested	Results	Units F	₹∟	Method	Date Analyzed	Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	578. 578. < 5 < 5 63.8 < 0.25	J	Ø.5 Ø.25	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 9/ 6/19 9/ 6/19	

Approved By Name:

Function:

Andy Schut Lab Manager/Yakima

Signature:

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



CASCADE ANALYTICAL
A EUROFINS COMPANY
1-800-545-4206

(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum Rdiccount: 20791 Union Gap, WA 98903ampler: Rob

PO Number:

Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029248 Sample Identification: MW26-W Date Received: 8/28/19

Date Sampled: 8/27/19

Test Requested	Results	Units RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3)	487.	mg/L 5	SM 2320-B	9/ 6/19
Bicarbonate (as CaCO3)	487.	mg/L 5	SM 2320-B	9/ 6/19
Carbonate as CaCO3	< 5	mg/L 5	SM 2320-B	9/ 6/19
Sulfate	14.0	mg/L 0.1	EPA 300.0	8/28/19
Nitrate-N/Nitrite-N	< 0.05	mg/l 0.05	EPA 300.0	8/28/19

Andy Schut Lab Manager/Yakima

Approved By Name:

Signature:

Functions

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:

1 of

1



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum Raccount: 20791 Union Gap, WA 989@ampler: Rob

PO Number:

Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver. WA 98626

Laboratory Number: 19-E029249 Sample Identification: MW25-W Date Received: 8/28/19

Date Sampled: 8/27/19

Test Requested	Results	Units RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	396. 396. < 5 20.5 < 0.05	mg/L 5 mg/L 5 mg/L 5 mg/L 0.1 mg/l 0.05	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 8/28/19 8/28/19	

Approved By Name:

Function:

CAIDE OF

Andy Schut

Signature:

Lab Manager/Yakima

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:

1 of



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum R. Account: 20791 Union Gap, WA 98903 ampler: Rob

PO Number:

Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029250 Sample Identification: MW10R-W Date Received: 8/28/19

Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3)	490.	mg/L 5		SM 2320-B	9/6/19
Bicarbonate (as CaCO3)	490.	mg/L 5	i	SM 2320-B	9/ 6/19
Carbonate as CaCO3	< 5	mg/L 5	I	SM 2320-B	9/ 6/19
Sulfate	0.39	mg/L	Ø. 1	EPA 300.0	8/28/19
Nitrate-N/Nitrite-N	< 0.05	mg/l	0.05	EPA 300.0	8/28/19

Approved By Name:

Andy Schut Lab Manager/Yakima

Signature:

aft

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791

Union Gap, WA 989@ampler: Rob PO Number:

Water Analytical Report

> Report Date: 9/ 9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029251 Sample Identification: MW24-W

Date Received: 8/28/19

Date Sampled: 8/27/19

Test Requested	Results	Units RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	450. 450. < 5 15.2 < 0.05	mg/L 5 mg/L 5 mg/L 5 mg/L 0.1 mg/1 0.0		9/ 6/19 9/ 6/19 9/ 6/19 8/28/19 8/28/19	

Approved By Name:

Andy Schut Lab Managor/Yakima

Signature:

Function:

CAIDE OF

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



A EUROFINS COMPANY 1-800-545-4206

(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791 Union Gap, WA 9896 ampler: Rob

PO Number:

Water Analytical Report

> Report Date: 9/9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

<u> Laboratory Number: 19-E029252</u> Sample Identification: MW21-W Date Received: 8/28/19

aft

Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3	468. 468. < 5	mg/L mg/L mg/L	5 5	SM 2320-B SM 2320-B SM 2320-B	9/ 6/19 9/ 6/19 9/ 6/19	and then due dog due
Sulfate Nitrate-N/Nitrite-N	22.8 ∢ 0.05	mg/L mg/l	0.1 0.05	EPA 300.0 EPA 300.0	8/28/19 8/28/19	

Approved By Name:

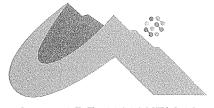
Andy Schut Lab Manager/Yakima

Signature:

Function:

CAIDE OF

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum Raccount: 20791 Union Gap, WA 989@ampler: Rob

PO Number:

Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029253 Sample Identification: BH01-W Date Received: 8/28/19

Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	435. 435. < 5 0.50 < 0.05	mg/L 5 mg/L 5 mg/L 5 mg/L mg/l		SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 8/28/19 8/28/19	

Andy Schut

Approved By Name: Lab Manager/Yakima

Signature:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page: 1 of 1

Function:



1-800-545-4206

(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997784 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791

Union Gap, WA 9896 ampler: Rob

PO Number:

Analytical Water Report

Report Date: 9/ 9/19

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029254 Sample Identification: MW102-W Date Received: 8/28/19

Date Sampled: 8/27/19

Test Requested	Results	Units	RL	Method	Date Analyzed	Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	440. 440. < 5 0.46 < 0.05	mg/L mg/L mg/L mg/L mg/l	5	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 8/28/19 8/28/19	54 der Ca 300 das

Approved By Name:

Andy Schut

Signature:

Function:

Lab Manager/Yakima

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

3019 G. S. Center Rd. Wenatchee, WA 98801 (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206 1008 W. Ahtanum Rd.

WATER ANALYSIS ORDER FORM

Batch# 9977×4		SAMPLE #							
	1	2	3	4	t				
SEND RESULTS TO 1) Client 2) Billing 3) Both		Ų.							
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other	À	352 V.		er Ma					
SAMPLE BY 1) Client 2) Quality Control 3) Cascade 4) Other		AV N							

) Olher					
(see legend on back)		SA	MP	LE#	
IRRIGATION WATER	1	2	3	4	Τ;
Standard	7.8	1		+	+
GENERAL CHEMI	STR] У	1		<u> </u>
1135 pH	316	· Top	13	1.5.	1
1140 Conductivity	444 434	3.87	75 757		-
1200 Solids-Dis. (TDS)		-	-	-	+
1230 Solids-Susp. (TSS)	-	-		-	
1240 Tot. Phosphorus		1.5		+	+
1250 Orthophosphate	8134 8184 9184	A. M	264 647	-	+
1260 Kjeldahl Nitrogen (TKN)	135. 137	15 ⁶	72. 749		1
1170 Nitrate+Nitrite	303			10	-
	×	1.7	}	X	1
1265 NO ₃ (As N)	(144) (444)	Alle.	1317	-	H
1280 Ammonia	.35°	100 y	The	10 10 + 3	-
1300 Biol. Oxy. Demand		37.15 10.15 1.15	H	1.0	-
1310 Chem. Oxy. Demand				10,10	
1190 Sulfate (SO4)			33		
1180 Chloride (CI)	NO.			Miles Miles	1
1150 Turbidity					
1320 Hexane Ext. Mat.					
1340 Alkalinity		9			
217 Total N Pkg	Ą.				
	¥7.				
MICROBIOLOGY		т—		,	
10040 Total Coliform MF			ļ.		
10010 Fecal Coliform MF				14 (13)	S.
10041 Total Coliform MPN	88				
10011 Fecal Coliform MPN					
METALS - TOTAL	OR I	PISS	OLV	ED	
1391 Antimony (Sb)					
1011 Arsenic (As)			70		
1025 Barium (Ba)	(I).				
1405 Beryllium (Be)			T)		
1031 Cadmium (Cd)					
1045 Chromium (Cr)				V)) (48)	
1215 Copper (Cu)	90				
1065 Iron (Fe)					
1075 Manganese (Mn)	M.				
1081 Mercury (Hg)			25.8		
1081 Mercury (Hg) 1435 Molybdenum (Mo)					
1435 Molybdenum (Mo)					
1435 Molybdenum (Mo) 1051 Lead (Pb)					
1435 Molybdenum (Mo) 1051 Lead (Pb) 1335 Nickel (Ni)					
1435 Molybdenum (Mo) 1051 Lead (Pb) 1335 Nickel (Ni) 1091 Selenium (Se)					
1435 Molybdenum (Mo) 1051 Lead (Pb) 1335 Nickel (Ni) 1091 Selenium (Se) 1105 Silver (Ag)					
1435 Molybdenum (Mo) 1051 Lead (Pb) 1335 Nickel (Ni) 1091 Selenium (Se) 1105 Silver (Ag) 1381 Thallium (Tl)					
1435 Molybdenum (Mo) 1051 Lead (Pb) 1335 Nickel (Ni) 1091 Selenium (Se) 1105 Silver (Ag) 1381 Thallium (Tl) 1225 Zinc (Zn)					
1435 Molybdenum (Mo) 1051 Lead (Pb) 1335 Nickel (Ni) 1091 Selenium (Se) 1105 Silver (Ag) 1381 Thallium (Tl) 1225 Zinc (Zn) MINERALS					
1435 Molybdenum (Mo) 1051 Lead (Pb) 1335 Nickel (Ni) 1091 Selenium (Se) 1105 Silver (Ag) 1381 Thallium (Tl) 1225 Zinc (Zn) MINERALS 1120 Calcium (Ca)					

		Union Ga (509) 452	ip, WA 989 2-7707	003		1) Irrigation 2) Was		3) Other			
CASCADE ANALY	YTICAL INC	– Fax: (509	9) 452-777	3		1) Client 2) Quality	Control	3) Cascade	4) Othe	<u>:r</u>	-
	2 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	. .				New Acct. #			(see le	egend on back)	
									IRR	IGATION WATER	Ī
CLIENT NAME/ADDRESS				AME/ADDR						Standard	Ī
Craig Hultur	Hydrocon	1	5	ame_	55	Client				GENERAL CHEMI	15
									1135	рН	I
314 W 15TS St	Sale 500					HV4.1824.2022.2022.2046		Authorities	1140	Conductivity	Ī
Vancour WA	68621								1200	Solids-Dis. (TDS)	Ī
SAMPLER'S NAME			PHONE	4.65 UVA.55	<u>rafnivas)</u> Newadsk			53 A NO. 1	1230	Solids-Susp. (TSS)	
Ros Hanshirg			206	. 856	6679				1240	Tot. Phosphorus	
***		Asserbe species and a	angletical gray vari	So 1 (1) (2) (2) (4) (4) (4)	(33) 3 (150 L		10 to 10	38/34/2 X-10/54/	1250	Orthophosphate	
E-mail Craight Hyd	brocon 11C-100 f	•	E-mail					······	1260	Kjeldahl Nitrogen (TKN)	
RELINQUISHED BY: (Signature) 1	DATE RELINQU	UISHED BY: (Sigr	nature) [2]	DATE	RELING	UISHED BY: (Signatur	e) [3]	DATE	1170	Nitrate+Nitrite	
1 Stanton	¥-27-19								1265	NO ₃ (As N)	
(District)	TIME (Printed)			TIME	(Printed			TIME	1280	Ammonia	
(Printed)	(Finited)			I INIC.	(Fillited			I (IV)E	1300	Biol. Oxy. Demand	
NUS Honsbergen	1725				ig viil)			Y. 44.4	1310	Chem. Oxy. Demand	
RECEIVED BY: (Signature)	DATE RECEIVE	ED BY: (Signature	<u>)</u>	DATE	RECEIV	/ED FOR LAB BY: (Sigr	nature)	DATE	1190	Sulfate (SO4)	
1_0 71	Em/10					, ,			1180	Chloride (CI)	
TAXWUT									1150	Turbidity	
(Printed)	TIME (Printed)			TIME	(Printed	0		TIME	1320	Hexane Ext. Mat.	
IDL OH	14/2								1340	Alkalinity	-
10000	1100								217	Total N Pkg	1
FORM MUST BE CON	IPLETED BEF	ORE ANAL	YSIS W	ILL BE	PERF	FORMED.				<u> </u>	ŀ
791743 N	0 \						Sample [Date 7		MICROBIOLOGY	т.
A10/0/11/11/11/11	169R-W						V4-14's 02-26'	Andread st. A	-	Total Coliform MF	-
							Sample]	50	10010	Fecal Coliform MF	-
129244 11	128-W						Sample C	late	\vdash	Total Coliform MPN	-
	20		1.2				COLUMN 244	TA WAY LEA BOOK	-	Fecal Coliform MPN	_
				will be a second of the second			Sample 1	Sana marana da san		METALS - TOTAL	C
129245 L. Mu	u 30-w					8-27-19	Sample C			Antimony (Sb)	-
						1025	Sample T			Arsenic (As)	-
~~~///	2.054					1000	Sample [	775	<b>—</b>	Barium (Ba)	-
21070 4 15	102-W		19 S. P. 1535				8-1		$\vdash$	Beryllium (Be)	-
							Sample T	ime F10		Cadmium (Cd)	-
29247 M	W31-W						Sample D	ate /		Chromium (Cr)	L
101/5	<u> </u>						CHARLEMAN	7-19		Copper (Cu)	L
							Sample T	١٥		Iron (Fe)	-
*METALS - circle	type of analysis	s - T≕total o	r D=diss	olved						Manganese (Mn)	H
Total N package										Mercury (Hg) Molybdenum (Mo)	F
Sample contain			s sealec	l '	/es	No					-
Sample contain	er received by	laborator	y was s	ealed `	/es	No			$\vdash$	Lead (Pb) Nickel (Ni)	١
Disclaimer:									$\vdash$	Selenium (Se)	-
Cascade Analytical, Inc., ma									<b>├</b> ──	Silver (Ag)	ŀ
rom the use of Cascade's te other liability in connection w										Thallium (TI)	ſ
varranties collateral to or affe	ecting this agreemer	nt.	•						-	Zinc (Zn)	
Cascade Analytical Inc.'s lia sum equal to the fees paid by						s test results sha	ıı be lin	nited to a		MINERALS	
/	Comments of the same	/	.,						<u> </u>	Calcium (Ca)	ē
Customer Signature:	- WIL	The state of the s				Date %-27	-19		-	Magnesium (Mg)	00 100
Justomer Olymature.						Duto			105	grissian (mg)	Ĭ

This form also serves as "Chain of Custody."

CAICOF - 03 REV. 04/26/2013



3019 G. S. Center Rd. Wenatchee, WA 98801 (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

1008 W. Ahtanum Rd

# WATER ANALYSIS ORDER FORM

Batch# QQTTX4	SAMPLE #								
	1	2	3	4	5				
SEND RESULTS TO									
1) Client 2) Billing 3) Both			5	1					
SAMPLE REPRESENTS		1	77						
1) Irrigation 2) Waste Water 3) Other	i i				1				
SAMPLE BY	3/3	0.0		111	-				
1) Client 2) Quality Control 3) Cascade 4) Other		F		3.5					

		Union Gap, WA 989		SAMPLE REPRESEN 1) Irrigation 2) Was		3) Other						
	سندالة الداليات	(509) 452-7707 Fax: (509) 452-777	3	SAMPLE BY 1) Client 2) Quality	Control 3	) Cascade	4) Othe	·r	13	145	÷γ.	
CASCADE ANAL	YTICAL, INC	1 dx. (509) 452-111	J	New Acct. #		<u></u> 1				SA	MPLE	E#
							F	egend on back)	1			
CLIENT NAME/ADDRESS			AME/ADDR			100/100 Y		Standard	. The second	2	3	4
Craix Hultgren	Hudrican		Same	es client		44.6.4.6	}	GENERAL CHEMI	STD			
				Part de la companya da			1135	Г	10%	500	5) T	
314 W 150 St 5	Sc. L 300		(Situa)					Conductivity	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.45 34.45	9	
						Y A		Solids-Dis. (TDS)				-
Vancour WA	98656							Solids-Susp. (TSS)				
		PHONE	1 0	~~/ //~~·		aNi 📗		Tot. Phosphorus				$\dashv$
Rob Honsberg	<del>ž</del> ioti libera peidė i	han him   whi do	७ ४	56-6679	<u>rissuicite):</u>	10 10 Te		Orthophosphate		131		
E-mail Craigh 6 Ha	edrocan IIC. Net	E-mail					1260	Kjeldahl Nitrogen (TKN)				
RELINQUISHED BY: (Signature)		IISHED BY: (Signature) 2	DATE	RELINQUISHED BY: (Signature	e) [3]	DATE	1170	Nitrate+Nitrite	又	×	У	$\searrow$
1 / / / / / / / / / / / / / / / / / / /	_    8-27-14		(10 m) y				1265	NO ₃ (As N)				or S
John							1280	Ammonia		V.		$\exists$
(Printed)	TIME (Printed)	linalog lighto. L	TIME	(Printed)	unias I,	TIME	1300	Biol, Oxy, Demand	50			7 P
Rd Hongberger	1725		MAYA	les estados estados cultivados en es	lana k	1 7 15 10 1	1310	Chem. Oxy. Demand		357		
			14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		alia a	100000	1190	Sulfate (SO4)				
RECEIVED BY: (Signature)	DATE   RECEIVE	D BY: (Signature)	DATE	RECEIVED FOR LAB BY: (Sign	nature)	DATE	1180	Chloride (CI)	Sa.	Ŵ.		91 1
102° 2011	- 18/28/1 <del>9</del> 1						1150	Turbidity				
(Printed)	TIME (Printed)		TIME	(Printed)		TIME	1320	Hexane Ext. Mat.				
120 - 11	$H_{\alpha}(A)$						1340	Alkalinity				T
1) Derugh	14:00						217	Total N Pkg			П	
FORM MUST BE CO	MPLETED BEEC	ORE ANALYSIS W	III BE	PERFORMED				*				
	Balling to an internal facilities and				Sample Del	Paragura.		MICROBIOLOGY				
29048 190	126-W				Sample Dai		10040	Total Coliform MF	136) ( 1		140	141
· -b	a sa				Sample Tim	e CO	10010	Fecal Coliform MF		8 Y 14 / 1	À,	
29249 M	w25-W	Signal Brown			Sample Dat	C127 (1997) (2017) (1997)	10041	Total Coliform MPN			àr.	
					established the	640,000,000,000	10011	Fecal Coliform MPN		4.01 4.51		
					Sample Tim	ت ت		METALS - TOTAL	OR D	)ISS	OLVE	:D
129250 In	wior-w				Sample Dat	e -(C)	1391	Antimony (Sb)				
3 3					Sample Tim	9	ļļ	Arsenic (As)				
					107	9858 618 18 1	1025	Barium (Ba)				
27201 1 1	w24-w	le kya kanjir ali jac			Sample Dat	-199	1405	Beryllium (Be)				
					Sample Tim	e (()		Cadmium (Cd)				
0G257 W	v21-W	AND THE RESERVE OF THE PARTY OF			Sample Dat	A STATE OF THE STA		Chromium (Cr)				
0 10 94 5 1 1 V	<u>921-w</u>				8-5	1,500 E En VALUE	-	Copper (Cu)			<u> </u>	
					Sample Tim		<b>-</b>	Iron (Fe)	931 A.:			
*METALS - circle	e type of analysis	- T=total or D=diss	olved				1	Manganese (Mn)		$\dashv$	igaa igaa igaa	
	e = TKN, NO ₃ , NO							Mercury (Hg)				
		client was sealed	i '	Yes No Yes No				Molybdenum (Mo)				
Sample contain	ner received by	laboratory was s	ealed `	Yes No			<b>⊢</b>	Lead (Pb) - Nickel (Ni)				
Disclaimer:							1		12/1			99 (3 9a (3
Cascade Analytical, Inc., m	akes no warranty of	any kind, expressed or	implied, a	and customer assumes al	I risk and	liability	ļ	Selenium (Se) Silver (Ag)		98. 244.		
from the use of Cascade's to other liability in connection v								Thallium (TI)		1434 - 1534 -		
warranties collateral to or aff	ecting this agreemen	ıt.			•		$\vdash$	Zinc (Zn)				
Cascade Analytical Inc.'s I sum equal to the fees paid b					ılı be limi	ed to a	L	MINERALS	<u> </u>			
•	•	,,		,			-	Calcium (Ca)				
Customer Signature:	TAM	<b></b>		Date 8-17-	19			Magnesium (Mg)	veri i	$\exists$		
This form also serves	al a	ustody"				~		Potassium (K)		218 C		
CAICOF - 03	. as shall of o	astouj.			REV. 04/	26/2013	$\vdash$	Sodium (Na)				



3019 G. S. Center Rd. Wenatchee, WA 98801 (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

# WATER ANALYSIS ORDER FORM

Batch# 997794	SAMPLE#							
Datchin 11/0	1	2	3	4	5			
SEND RESULTS TO								
1) Client 2) Billing 3) Both		é.	N					
SAMPLE REPRESENTS				55				
1) Irrigation 2) Waste Water 3) Other		14.		4				
SAMPLE BY	15%	1941	30.	12,111				
1) Client 2) Quality Control 3) Cascade 4) Other		35		187				

V 1.51 (1.54)	Ahtanum R p, WA 989			SAMPLE REPRESE 1) Irrigation 2) Was SAMPLE BY		3) Other			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12			_
	7707 1) 452-7773	3		1) Client 2) Qualit	y Control	3) Cascade	4) Other						
LAJUAUL MITALI IIUAL, IITL.				New Acct. #			(see le	gend on back)		SA	MPLE	€#	
							r	GATION WATER	1	2	3	4	•
CLIENT NAME/ADDRESS	Free Street about	AME/ADDR				ASSESSA VIGO		Standard		4000			-
Croix Hultgren Hydrocon	1 4 4 A	SAM	?5	clin -				GENERAL CHEMI	STR	Υ	II.		-
	0,000,00						1135	pH	375			T	-
314 W 152 St. Sut 300	212434	banyuk		M-9640030 - 64		M. 110	1140	Conductivity					
Vancourer WA 48676							1200	Solids-Dis. (TDS)				$\top$	~
SAMPLER'S NAME	PHONE/			<u> Pila e (CII) disputation</u> matrixes essentia			1230	Solids-Susp. (TSS)					_
Rd Hunsbergen	10.000000000000000000000000000000000000	6 85	-1 11	701			1240	Tot. Phosphorus	Ġ.				-
427	Linear Line		0.500				1250	Orthophosphate	11.0	(3)-			7
E-mail Croix Hates & Hydrocon IC-Not	E-mail					***************************************	1260	Kjeldahl Nitrogen (TKN)	1100	y ( ) . 			
RELINQUISHED BY: (Signature) 1 DATE RELINQUISHED BY: (Sign		DATE	RELINQ	UISHED BY; (Signatu	re) [3]	DATE	1170	Nitrate+Nitrite	×	X			
1-15-15 3-53-61							1265	NO3 (As N)					-
						1/4/9/25	1280	Ammonia		980 -	703		
(Printed) TIME (Printed)	FARM &	TIME	(Printed	Presitoricio di		TIME	1300	Biol. Oxy. Demand	No.	YA!			
Kol Hunsberger 11425	Alba Sink		la sur				1310	Chem. Oxy. Demand	el:	Na.			-
			DECEN	ED EOD   40 0V/0			1190	Sulfate (SO4)				T	
RECEIVED BY: (Signature)  DATE RECEIVED BY: (Signature)	)	DATE	RECEIV	ED FOR LAB BY: (Sig	jnature)	DATE	1180	Chloride (CI)					-
1) - OH 19/18/14							1150	Turbidity					
_(Printed) TIME (Printed)		TIME	(Printed	)		TIME	1320	Hexane Ext. Mat.					
							1340	Alkalinity			#		-
1) ) cun (17/400)							217	Total N Pkg	A.				7
FORM MUST BE COMPLETED BEFORE ANAL	YSIS W	III RE	PERF	ORMED		335555							-
		Arabana A	Augusta) A	Carrier and the control of the contr				MICROBIOLOGY	·			·	
2925) BHOI-W		Proface (2)			Sample 1	Date . 7-1-9	10040	Total Coliform MF	P.F			W	
					Sample	Jime 7	10010	Fecal Coliform MF	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1
hassilla					Control of	The state of the s	10041	Total Coliform MPN					i
19/19/1 2 HWIGZ-W						7-14	10011	Fecal Coliform MPN					į
					Sample (	10 <i>0</i>	1	METALS - TOTAL	OR E	olss	OLVE	:D	
					Sample I	Date	1391	Antimony (Sb)					- 11
3		<u>in an heri</u> Salahar			Sample	Time	1011	Arsenic (As)					-
							1025	Barium (Ba)	Ŵ,				-
					Sample i	Date	1405 E	Beryllium (Be)	Ŋů.			()  }	7
					Sample 1	Time	1031	Cadmium (Cd)		6.33 133			
			12 (14) 스팅 시작되었다.		Sample I		1045	Chromium (Cr)	26				1
- 5					Sample	Jale	1215	Copper (Cu)					
					Sample [*]	lime .	1065	ron (Fe)					1
THE TALO	n !!	_ 11					1075	Manganese (Mn)					
*METALS - circle type of analysis - T=total o	r D=alss	oivea	,				1081	Mercury (Hg)					Į.
Total N package = TKN, NO ₃ , NO ₂ , NH ₃ Sample container received by client was	s sealed		Yes	No			1435 N	Molybdenum (Mo)					
Sample container received by laborator				No No	•		1051 L	ead (Pb)					
	,				1		1335	Nickel (Ni)					
<b>Disclaimer:</b> Cascade Analytical, Inc., makes no warranty of any kind, exp	ressed or i	implied :	and cust	omer assumes a	ıll risk ar	nd liability	1091	Selenium (Se)					
om the use of Cascade's test results. Cascade neither assu	mes nor a	uthorizes	s any pe	rson to assume	for Cas	cade any		Silver (Ag)					
ther liability in connection with the testing done by Cascade varranties collateral to or affecting this agreement.	Analytical	i, Inc., ar	nd there	are no other or	al agree	ments or	$\vdash$	Thallium (TI)					7
Cascade Analytical Inc.'s liability to customer as a result of				's test results sh	all be lir	nited to a	1225 2	Zinc (Zn)					
um equal to the fees paid by customer to Cascade Analytical	, Inc. for th	e testing	work.				P	MINERALS					
146MJ				V-7	210		1120	Calcium (Ca)					_
Customer Signature:				Date X- Z	1-1-1		1130 N	vlagnesium (Mg)					1000
This form also serves as "Chain of Custody."							$\vdash$	Potassium (K)					-
AICOE 03					DEV C	4/26/2013	11110 0	Sodium (Na)		669 I	48 B	88 LB	



# Sample Receipt Form

Date Received:	8/27/19	Time Rece	eived:	2:35	Initials:	In	
Client Name:	Craig Hulty	ren Hyo	drocon	Project Name: _	wW		
	cooler upon receipt			Thermometer I			
Custody seals:	Intact Broken	None	N/A				
Chain of Custody	Completed:						
	me, address, and p	hone numb	er;		(Yes	No	
	d time of sampling;				Yes	No	
· ·	uests clear;				Yes	No	
•	ed in ink;				Yes	No	
Signed b	y client;				(Yes)	No	
All samples recei	ved:				Yés	No	
All samples intac	t:				(Yes	No	
Sample ID's mate	ch COC form:				Yes	No	
Appropriate con	tainers used:				Yes	No	
Sufficient amoun	t of sample for ana	lysis:			Yes	No	
Correct preserva	tive verified:			(N/A)	Yes	No	
Air bubbles in VC	OC, TTHM, or HAA5	samples:		N/A	Yes	No	
Sample(s) exceed	d hold time:				Yes	No	
Type of coolant:	(Ice) Blue	Ice None	e Othe	er Comment: .			
Shipping Method	l: FedEx U	PS USPS	Brett	& Sons Hand I	Delivered	CAI Sampled	
Shipping Contain	er: E-CA Cooler	E-CA Cod	oler Box	Client's Cooler	None	Other	
Samples accepte	d for analysis:				Yes	No	
Reason f	or Rejection:	***************************************					_
Name of Person	Contacted:		····	Date Con	tacted:		
Comments:	A. A					Salari Midan kananan kalangan ang ang ang	
			·····				



1-800-545-4206

(509) 662-1888 Fax: (509) 662-8183 3019`G. Ś. Center Road Wenatchee, WA 98801

Batch: 997925 (509) 452-7707 Client: HydroCon

Fax: (509) 452-7773 Account: 20791 Union Gap, WA 989@ampler: Rob

PO Number:

Water Analytical Report

> Report Date: 9/9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029471 Sample Identification: MW28-W

Date Received: 9/30/19

Date Sampled: 8/28/19

Test Requested	Results	Units RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate	504. 504. < 5 9.60	mg/L 5 mg/L 5 mg/L 5 mg/L 0.1	SM 2320-B SM 2320-B SM 2320-B EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 8/30/19
Nitrate-N/Nitrite-N	< 0.05	mg/l Ø.05	EPA 300.0	8/30/19

Approved By Name: Andy Schut

Function:

Lab Manager/Yakima

Signature:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



1-800-545-4206

(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997925 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791

Union Gap, WA 98903ampler: Rob

-- Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029472

Date Received: 8/30/19

Sample Identification: RW01-W

Date Sampled: 8/28/19

Test Reque	sted	Results	Units	RL	Method	Date Analyzed	Flags
· · · · · · · · · · · · · · · · · · ·		487. 487. < 5 18.3 < 0.05	mg/L mg/L mg/L mg/L mg/l	5	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 8/30/19 8/30/19	

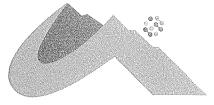
Approved By Name:

Andy Schut Lab Manager/Yakima

Signature:

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.



CASCADE ANALYTICAL A EUROFINS COMPANY

1-800-545-4206

(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997925 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 Account: 20791

Union Gap, WA 989∰ampler: Rob

PO Number:

Water Analytical Report

> Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029473 Sample Identification: MW20-W

Date Received: 8/30/19

Date Sampled: 8/28/19

Test Requested	Results	Units	RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	462. 462. < 5 0.18 < 0.05	mg/L mg/L mg/L mg/L mg/l	5	SM 2320-B SM 2320-B SM 2320-B EPA 300.0 EPA 300.0	9/ 6/19 9/ 6/19 9/ 6/19 8/30/19 8/30/19

Approved By Name:

Andy Schut Lab Manager/Yakima

Signature:

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE OUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:

1 of



(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

Batch: 997925 (509) 452-7707 Client: HydroCon Fax: (509) 452-7773 1008 W. Ahtanum Raccount: 20791

Union Gap, WA 98903ampler: Rob

PO Number:

#### --- Water Analytical Report

Report Date: 9/ 9/19

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Laboratory Number: 19-E029474 Sample Identification: BH03-W Date Received: 8/30/19

Date Sampled: 8/28/19

Test Requested	Results	Units RL	Method	Date Analyzed Flags
Alkalinity (as CaCO3) Bicarbonate (as CaCO3) Carbonate as CaCO3 Sulfate Nitrate-N/Nitrite-N	619.	mg/L 5	SM 2320-B	9/ 6/19
	619.	mg/L 5	SM 2320-B	9/ 6/19
	< 5	mg/L 5	SM 2320-B	9/ 6/19
	6.78	mg/L 0.1	EPA 300.0	8/30/19
	< 0.05	mg/l 0.05	EPA 300.0	8/30/19

Approved By Name:

Andy Schut Lab Manager/Yakima

Signature:

Function:

Eurofins-Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Eurofins-Cascade Analytical makes no warranty of any kind. The client assumes all risk and liability from the use of these results. Results relate only to the items tested and the sample(s) as received by the laboratory. Eurofins-Cascade Analytical liability to the client as a result of use of the test results shall be limited to a sum equal to the fees paid by the client to Eurofins-Cascade Analytical for analysis. PLEASE REVIEW YOUR DATA IN A TIMELY MANNER. DATA GAPS OR ERRORS AFTER ONE MONTH WILL NOT BE DUR RESPONSIBILITY. THOUGH WE DO KEEP ALL ANALYTICAL DATA FOR SEVERAL YEARS, SAMPLES ARE DISPOSED OF AFTER SIX WEEKS.

Page:

1 of

3019 G. S. Center Rd. Wenatchee, WA 98801 (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

# WATER ANALYSIS ORDER FORM

Batch# 097925		SA	MPL	E #	
-11110	1	2	3	4	5
SEND RESULTS TO 1) Client 2) Billing 3) Both					Ţ.
SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other				All a V	
SAMPLE BY 1) Client 2) Quality Control 3) Cascade 4) Other					

1008 W. Ah Union Gap,		1) Client 2) Billing 3) Both SAMPLE REPRESENTS 1) Irrigation 2) Waste Water 3) Other										
(509) 452-7 (509) 452-7	707		SAMPLE B	***************************************	~	4) Oth						f
CASCADE ANALYTICAL, INC. Fax: (509)	152-7773		New Acct. #		3) Cascade	4) Othe	egend on back)	1633	SA	MPLE	L E#	L
					1	· · · · · · · · · · · · · · · · · · ·	IGATION WATER	1	2	3	4	
1 - 사람들은 다음을 가고 있는 사람들은 사람들은 사람들은 경우를 하는데 하는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	BILLING NAME/AD	DRESS			3172:395.17		Standard			W		7
Croix Hultagen Hugharan	S	anc	25 C	1.02+	1001.035		GENERAL CHEMI	STR	' Y		1.41	
					first of	1135	рН	924				
314 w 15 D St Suh 300						1140	Conductivity					
Voncouver 44 98626						1200	Solids-Dis. (TDS)					è
	PHONE ,						Solids-Susp. (TSS)				10	
Ruls Honsberg	206	82%	6679		6102 534		Tot. Phosphorus		27 107 107 107 107 107		<u> </u>	
		***************************************				-	Orthophosphate		300 360			2
	-mail				T		Kjeldahl Nitrogen (TKN)	13.72 13.72 13.73				<u> </u>
RELINQUISHED BY: (Signature) DATE   RELINQUISHED BY: (Signature)   Y-17-14	ire) 2 DATE	RELING	QUISHED BY	: (Signature) [3]	DATE		Nitrate+Nitrite	X.	χ_	$\lambda$	$ \mathcal{X} $	-
DEAN 8-24-19						-	NO ₃ (As N)	lata Sasa	120 F	12.5 13.4		<u>.</u>
(Printed) TIME (Printed)	TIME	E (Printe	d)	ASAMATA INGS	TIME	-	Ammonia Biol. Oxy. Demand	12.7	(S) (Serie		(A) (rest)	
ROLL A Husbyn 10935						<b> </b>	Chem. Oxy. Demand	-	1867 1646			1
File ( )					30,43,5013 30,43,5013		Sulfate (SO4)	312	0734 15.5.			<u>^</u>
RECEIVED BY: (Signature) DATE RECEIVED BY: (Signature)	DATE	RECEI	VED FOR LA	B BY: (Signature)	DATE		Chloride (CI)	#355 8358	Yang.	199 1984		20
1 - 0 s. At 9301g		in diameter					Turbidity				En. b	
y curen pri	707	=   /= :	N				Hexane Ext. Mat.	5397 I		4900 H	880   1 3463	
(Rinted) TIME (Printed)	TIME	E (Printe	d)		TIME		Alkalinity	1000				1 y 1
100 - 61 = 01113.20						-	Total N Pkg					
TO THE WHITE DE COMPLETED DESCRETANALY	010 1501 1 5	· ·	FORME	<u> </u>	Parker	-						
FORM MUST BE COMPLETED BEFORE ANALY	SIS WILL E	SE PER	FORME	D.	<del></del>		MICROBIOLOGY		لــــٰت			
294//   Mu28-W				Sample I	28-19	10040	Total Coliform MF	<u> 1941.</u>				
				Sample	Time _	10010	Fecal Coliform MF	9 (C.				
00/17/ 0.5 /				Surreinen seiter Hatta erstelle	SCLEDITE/ARCS (Sec.	10041	Total Coliform MPN					
2947/2 RWOI-W				Salliple.	Date レラー19	10011	Fecal Coliform MPN					
	1046			Sample ひと	Time		METALS - TOTAL	OR C	)ISS	OLVE	ED.	2.25
29473 MW20-W				Sample I	Date La-14	1391	Antimony (Sb)					
7113				Company of the Company and the Company of the Compa	Sec. 2010. 19. Sec. 19. Sec. 1.	1011	Arsenic (As)	17.4 17.4				
				en a como en la como en	Time 7 20	1025	Barium (Ba)				95 I	
29474 BHO3-W				Sample I	Date	1405	Beryllium (Be)					
				Sample	Time	1031	Cadmium (Cd)	100 A				
				Sample (	Control of the Control of Control	1045	Chromium (Cr)					
5							Copper (Cu)					
				Sample 1	lime	-	Iron (Fe)					
*METALS - circle type of analysis - T=total or I	)=dissolved					-	Manganese (Mn)	10000 10000 10000				
Total N package = TKN, NO ₃ , NO ₂ , NH ₃							Mercury (Hg)		1500		307	
Sample container received by client was	sealed	Yes	No				Molybdenum (Mo)					
Sample container received by laboratory	was sealed	Yes_	No_ No_				Lead (Pb)		(6-A			
Disclaimer:							Nickel (Ni)					
Cascade Analytical, Inc., makes no warranty of any kind, expre						-	Selenium (Se) Silver (Ag)					
om the use of Cascade's test results. Cascade neither assume ther liability in connection with the testing done by Cascade A						<b>—</b>	Thallium (TI)	$\vdash$				
arranties collateral to or affecting this agreement.	•			_			Zinc (Zn)		#61 1981	685°   1486   1		
Cascade Analytical Inc.'s liability to customer as a result of cu um equal to the fees paid by customer to Cascade Analytical, Ir			e's test res	suits shall be lir	nited to a	1.223	MINERALS	1000	<u>69</u>	gaš <b>j</b> š	20 B	<u> </u>
1						1120	Calcium (Ca)			38 T	To Te	
sustomer Signature:			Date	8-28-19		<u> </u>	Magnesium (Mg)					
his form also serves as "Chain of Custody."							Potassium (K)					
AICOF -03				BEV (	14/26/2013	-	Sodium (Na)					



# Sample Receipt Form

Date Received:	8.28.19	Time Received	: 948	Initials:	Jr
Client Name:	Crain Haldis	m Hydrea	Project Name:	_ ww	
Temperature of co	oler upon receipt:	17.	C Thermometer	ID:	
Custody seals:	ntact Broken	None N/A			
	e, address, and ph ime of sampling;	one number;		Yes Yes Yes	No No No
Completed Signed by (				Yes Yes	No No
All samples receive	ed:			¥€S	No
All samples intact:				yes	No
Sample ID's match	COC form:			Xes	No
Appropriate contai	ners used:			Yes	No
Sufficient amount	of sample for analy	vsis:		yes	No
Correct preservativ	ve verified:		M/A	Yes	No
Air bubbles in VOC	, TTHM, or HAA5 s	amples:	MA	Yes	No .
Sample(s) exceed h	nold time:		,	Yes	NO
Type of coolant:	tce Blue le	ce None (	Other Comment:		***************************************
Shipping Method:	FedEx UP	S USPS Br	ett & Sons Hand	Delivered CA	Al Sampled
Shipping Container	: E-CA Cooler	E-CA Cooler B	ox Client's Coole	r None O	ther
Samples accepted	for analysis:		1	Yes	No
Reason for	Rejection:				
Name of Person Co	ontacted:		Date Co	ntacted:	
Comments:					



3019 G. S. Center Rd. Wenatchee, WA 98801 (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

# WATER ANALYSIS ORDER FORM

Batch# 997764		SAI	MPL	E#	
Dalcii# 9/1/04	1	2	3	4	5
SEND-RESULTS TO	1	l		ļ	<b></b> -
1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS					
1) Irrigation 2) Waste Water (3) Other					
SAMPLE BY	100				<b> </b>
1) Client 2) Quality Control 2) Connedo 4) Other	1		1		1

	1008 W. Ahtanum Rd. SAMPLE REPRESE 1) Irrigation 2) Wa (509) 452-7707 SAMPLE BY					SAMPLE REPRESEN  1) Irrigation 2) Was  SAMPLE BY  1) Client 2) Quality	TS te Water (3) Other	740	+			
CASCADE AN	IALYTICAL,	INC. Fax: (50	9) 452-777	3	-	lew Acct. #	- January Communication of Communication	4) Other		SA	MPL	.Е#
all and the second seco	**				Annana and an	TOOK	791	(see legend on back)	1	Ta	2	ГаТ
CLIENT NAME/ADDRESS	etak tatu ke bajitanya ili salah s	g Madeline i die een a	BILLING N	IAME/ADDR	RESS			IRRIGATION WATER	1.7	2	3	4
Crain Hull		Dr. Com	S.F	Will King	PS.	schot.	1373478884. 4	Standard GENERAL CHEM	1075	<u></u>	ــــــــــــــــــــــــــــــــــــــ	LL
	3	) <del></del>		Av. Av. Evinter		LLANGER PROGRAMME.	Example ACM FAXA	1135 pH	IISTR	, Y	T	Г
314 W. 153	St 52/2	300	1			EMA		1140 Conductivity	+	-		$\vdash$
	7					#10	lalia	1200 Solids-Dis. (TDS)	+-	┼	-	
Vancoever	~4 48CS	6					11110-			+	┼	$\vdash$
SAMPLER'S NAME	1 4 1		PHONE	. ~ t	56-66	761	100	1230 Solids-Susp. (TSS)		+-	-	$\vdash\vdash$
Kubert A.	Hors pader	in their	20	6	10.00			1240 Tot. Phosphorus	+	+-	-	$\vdash \vdash$
E-mail CroselaG	Hedrocon)	12 12 1			1			1250 Orthophosphate	-	<del> </del>	ļ.,	$\vdash \vdash$
			E-mail		T			1260 Kjeldahl Nitrogen (TKN		<del>_</del>	_	
RELINQUISHED BY: (Signa		RELINQUISHED BY: (Sig	nature) [2]	DATE		JISHED BY: (Signature		1170 Nitrate+Nitrite	X	X	×.	
AJAMI.	8-16-19					*	Valen	1265 NO ₃ (As N)	-	1		$\sqcup$
(Printed)	TIME (	Printed)		TIME	(Printed)	:	TIME	1280 Ammonia		1		$\sqcup$
01 11	1540	Tellina Mil.					1.1. (1817) (1.1 <del>.)</del>	1300 Biol, Oxy, Demand	d 🌅	1		1
1605 Horsberger			Haw yes	igH Tr	Howard Lts	Control of the Con-	e Bartaña .	1310 Chem. Oxy. Deman	d	12.5	100	$\Box$
RECEIVED BY: (Signature)	DATE	RECEIVED BY: (Signature	a)	DATE	RECEIVE	D FOR LAB BY: (Sign	nature) DATE	1190 Sulfate (SO4)				
	Assault Library V	VILCIA		Laura .	Transfer A			1180 Chloride (CI)		34.	446	
		MATAL	4/	13:27.1	1			1150 Turbidity	17	100		
(Printed)	TIMĚ (	Printed)		TIME	(Printed)	<del>naka katan 1</del>	TIME	1320 Hexane Ext. Mat.	100	47	80) 80)	
fed sinsiply follows		V T C		1.25	Pariti. I.			1340 Alkalinity		1.	12	
		Kristin Zvii	450h	11-60				217 Total N Pkg				
FORM MUST BE	COMPLETED	BEFORE ANA	LYSIS W	ILL BE	PERF	ORMED.						П
50NIO							Sample Date	MICROBIOLOGY				
47070	Mu-gawM	Alika sireksi era ili filo		yerno io	tenin,	NA Městovo – Přípiteřáli	Sample Date	10040 Total Coliform MF	in'	10.55	1,0	
	a attendance of the control of		En la zo esta dosa				Sample Time	10010 Fecal Coliform MF	-	1		
09/VII	National Control		and Aller					10041 Total Coliform MPN	1	Г		
2 /V / / 2	1 10211-02	and the state of t	100100	7 3 33			Sample Date	10011 Fecal Coliform MPI	N			
	_	។ ១៤គីទី១ម៉ែង	ndhaddgyfdi	1.			Sample Time	METALS - TOTAL	OR	DISS	OLV	ED
291417	MWH-W	ingól-eisti a	nach worklige	) Î-a		(12.41) (12.41) (12.41) (12.41) (12.41)	Sample Date	1391 Antimony (Sb)				T
1 house 3							Sample Time	1011 Arsenic (As)				
	ration to be a second		BURE SE				Sampleyille	1025 Barium (Ba)				
129043	MW 138-W	u neu Johanne au (2007) Brasil Defri Salarus (2002)	osa esang usani déda				Sample Date	1405 Beryllium (Be)	1			
4	1							1031 Cadmium (Cd)	$\top$			$\top$
		encer with the personal control of the second	and the second s			***************************************	Sample Time	1045 Chromium (Cr)	1			$\top$
X1044 .	MWG-W						Sample Date	1215 Copper (Cu)	T		$  \cdot  $	$\top$
9	-		A		· · · · · · · · · · · · · · · · · · ·		Sample Time	1065 Iron (Fe)	1		$\Box$	$\top$
							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1075 Manganese (Mn)	1			$\neg$
	• •	alysis - T=total d	or D=diss	olved				1081 Mercury (Hg)	+			$\top$
	kage = TKN, NC							1435 Molybdenum (Mo)	,†			$\top$
		ed by client wa			Yes	No		1051 Lead (Pb)	Ť			$\neg$
Sample col	ntainer receive	ed by laborato	ry was s	ealed	Yes	No		1335 Nickel (Ni)	$\dagger$			1
Disclaimer:								1091 Selenium (Se)	1			-
Cascade Analytical, Infrom the use of Cascad	ic., makes no warra	anty of any kind, ex	pressed or	implied, a	and custo	mer assumes al	l risk and liability	1105 Silver (Ag)	†	$\vdash$		+
other liability in connec								1381 Thallium (TI)	T			
warranties collateral to				aa of C	Soosodale	toot resulte abo	ـ ما المعانما ال	1225 Zinc (Zn)	1	H		+
Cascade Analytical In sum equal to the fees p						s rest results sha	m be imilied to a	MINERALS				
	10	× ///						1120 Calcium (Ca)	5,53	180	gar I	- T
Customer Signature:	119-	J/ J	and the second s			_ Date_ % - 26-	. 19	1130 Magnesium (Mg)	100			
This form also se	n/oo oo #Ch-!-	as Cuatadu "		***************************************		_ DUIO		1115 Potassium (K)	+-	$\vdash$	$\vdash \vdash$	+
CAICOF - 03	ves as Chair	i oi Gustouy."					REV. 04/26/2013	1110 Sodium (Na)	+-	(Harri)	er Kja	+
												- 1



(509) 452-7707 Fax: (509) 452-7773 1008 W. Ahtanum Rd. Union Gap, WA 98903 Account: 20791

Sampler: Robert Horsberger Date Sampled: 8/26/19

Date Received: 8/27/19
Report Date:10/ 9/19

## - Quality Assurance Report

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Batch number 997704

		Blank	Analysis	alana	District.
Analyte	Blank ID	Units	Blank Results	Date Analyzed	zotomine
504/IC 504/IC 504/IC 504/IC 504/IC 504/IC N03/N02 N03/N02 N03/N02 N03/N02	Blank IPC_Blk Blank IPC_Blk Blk IPC_Blk Blank IPC_Blk Blank IPC_Blk Blank	 mg/L mg/L mg/L mg/L mg/1 mg/1 mg/1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.05 < 0.05 < 0.05 < 0.05	8/27/19 8/27/19 8/27/19 8/27/19 8/27/19 8/27/19 8/27/19 8/27/19 8/27/19	
N03/N02 N03/N02	Blk IPC_Blk	mg/l mg/l	< 0.05 < 0.05	8/27/19 8/27/19	

Andy Schut Lab Manager/Yakima

Approved by

aft

Page:



(509) 452-7707 Fax: (509) 452-7773 1008 W. Ahtanum Rd. Union Gap, WA 98903 Account: 20791

Sampler: Robert Horsberger

Date Sampled: 8/26/19
Date Received: 8/27/19
Report Date:10/ 9/19

#### -- Quality Assurance Report

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Batch number 997704

#### - Duplicate Analysis --

#### Acceptable Limit = 20 % RPD

Analyte	Sample ID	Units	Original Result	Duplicate Result	% RPD
Alk.	19-E029049	mg/L	279.	276.	-1.08
Alk.	19-E029248	mg/L	487.	479.	-1.66
Bicarb	19-E029049	mg/L	279.	276.	-1.08
Bicarb	19-E029248	mg/L	487.	479.	-1.66
Carbonate	19-E029049	mg/L	< 5	< 5	Ø.00
Carbonate	19-E029248	mg/L	< 5	< 5	Ø.00

Andy Schut Lab Manager/Yakima

Approved by

CAIDE DE

aft

Page:



(509) 452-7707 Fax: (509) 452-7773 1008 W. Ahtanum Rd. Union Gap, WA 98903 Account: 20791

Sampler: Robert Horsberger Date Sampled: 8/26/19

Date Received: 8/27/19
Report Date:10/ 9/19

## -- Quality Assurance Report

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Batch number 997704

#### -- Check Standard Analysis --

#### Acceptable Limits = 85 - 115 %

Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
Alk. Alk. Alk. Bicarb Bicarb Bicarb S04/IC	Known Known Known Known Known Known Known IPC_Low	mg/L mg/L mg/L mg/L mg/L mg/L	98.5 104. 98.0 98.5 104. 98.0	100. 100. 100. 100. 100. 100. 0.50	98 104 98 98 104 98 96	9/ 5/19 9/ 5/19 9/ 6/19 9/ 5/19 9/ 5/19 9/ 6/19 8/27/19
S04/IC S04/IC S04/IC S04/IC S04/IC S04/IC S04/IC	IPC_HI LFB IPC_Low IPC_HI LFB IPC_Low IPC_HI	mg/L mg/L mg/L mg/L mg/L mg/L	10.1 8.16 0.49 10.0 8.18 0.49 10.1	10.0 8.00 0.50 10.0 8.00 0.50 10.0	102 98 100 102 98 101	8/27/19 8/27/19 8/27/19 8/27/19 8/27/19 8/27/19

Andy Schut Lab Manager/Yakima

Approved by

aft

Page:

.



3019 G. S. Center Rd. Wenatchee, WA 98801 (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

## WATER ANALYSIS ORDER FORM

Batch# 997784		SA	MPL	E#	
	1	2	3	4	5
SEND RESULTS TO	1				
1) Client 2) Billing 3) Both					
SAMPLE REPRESENTS					
1) Irrigation 2) Waste Water 3) Other		ĺ	1		
SAMPLE BY	3.50	10.	ΔŽ		
1) Client 2) Quality Control 3) Cascade 4) Other	100			1	

1008 W. Ahtanum Rd. Union Gap, WA 98903 (509) 452-7707 Fax: (509) 452-7773 CASCADE ANALYTICAL, INC. New Acct. # SAMPLE# (see legend on back) IRRIGATION WATER 2 3 4 CLIENT NAME/ADDRESS BILLING NAME/ADDRESS Standard Same as Che GENERAL CHEMISTRY 1135 pH 1140 Conductivity 1200 Solids-Dis. (TDS) 1230 Solids-Susp. (TSS) SAMPLER'S NAME 1240 Tot. Phosphorus 206 856-6679 1250 Orthophosphate 1260 (Kjeldahl Nitrogen (TKN) RELINQUISHED BY: (Signature) 1 RELINQUISHED BY: (Signature) 2 1170 Nitrate+Nitrite DATE DATE RELINQUISHED BY: (Signature) 3 DATE 1265 NO₃ (As N) 8-27-19 1280 Ammonia TIME TIME TIME 1300 Biol. Oxy. Demand 1310 Chem. Oxy. Demand 1725 1190 Sulfate (SO4) RECEIVED BY: (Signature) RECEIVED FOR LAB BY: (Signature) DATE RECEIVED BY: (Signature) DATE 1180 Chloride (CI) 1150 Turbidity 1320 Hexane Ext. Mat. TIME (Printed) TIME TIME (Printed) 1340 Alkalinity 217 Total N.Pkg FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED. MICROBIOLOGY Sample Date MWGGR-W 10040 Total Coliform MF Sample Time 10010 Fecal Coliform MF 10041 Total Coliform MPN MU28-W 10011 Fecal Coliform MPN METALS - TOTAL OR DISSOLVED 1391 Antimony (Sb) Sample Date 1011 Arsenic (As) Sample Time 1025 Barium (Ba) Sample Date 1405 Bervilium (Be) 1031 Cadmium (Cd) Sample Time 1045 Chromium (Cr) MW31-12 1215 Copper (Cu) Iron (Fe) 1075 Manganese (Mn) *METALS - circle type of analysis - T=total or D=dissolved 1081 Mercury (Hg) Total Nepackage = TKN, NO, NO, NH, 1435 Molybdenum (Mo) Sample container received by client was sealed 1051 Lead (Pb) Sample container received by laboratory was sealed Yes 1335 Nickel (Ni) 1091 Selenium (Se) Cascade Analytical, Inc., makes no warranty of any kind, expressed or implied, and customer assumes all risk and liability from the use of Cascade's test results. Cascade neither assumes nor authorizes any person to assume for Cascade any 1105 Silver (Ag) other liability in connection with the testing done by Cascade Analytical, Inc., and there are no other oral agreements or 1381 Thallium (TI) warranties collateral to or affecting this agreement. 1225 Zinc (Zn) Cascade Analytical Inc.'s liability to customer as a result of customers use of Cascade's test results shall be limited to a sum equal to the fees paid by customer to Cascade Analytical, Inc. for the testing work. MINERALS 1120 Calcium (Ca) Date 8-77-19 Customer Signature: 1130 Magnesium (Mg) 1115 Potassium (K) This form also serves as "Chain of Custody." CAICOF - 03 REV. 04/26/2013 1110 Sodium (Na)



(509) 452-7707 Fax: (509) 452-7773 1008 W. Ahtanum Rd. Union Gap, WA 98903 Account: 20791 Sampler: Rob

Date Sampled: 8/27/19 Date Received: 8/28/19 Report Date:10/ 9/19

#### Quality Assurance Report

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Batch number 997784

			Analysis	Carrier and Carrie
Analyte	Blank ID	Ma Units	Blank Results	Date Analyzed
504/IC	Blank	mg/L	< 0.1	8/28/19
SO4/IC	IPC Blk	mg/L	< 0.1	8/28/19
S04/IC	Blank	mg/L	< 0.1	8/28/19
SO4/IC	IPC Blk	mg/L	< 0.1	8/28/19
S04/IC	Blk	mg/L	< 0.1	8/28/19
SO4/IC	IPC Blk	mg/L	< 0.1	8/28/19
S04/IC	Blank	mg/L	< 0.1	9/ 6/19
SO4/IC	IPC Blk	mg/L	< 0.1	9/6/19
SO4/IC	Blank	mg/L	< 0.i	9/ 6/19
SO4/IC	IPC Blk	mg/L	< 0.1	9/ 6/19
SO4/IC	Blank	mg/L	< Ø. i	9/ 6/19
SO4/IC	IPC Blk	mg/L	< 0.1	9/6/19
N03/N02	Blank	mg/l	< 0.05	8/28/19
N03/N02	IPC_B1k	mg/l	< 0.05	8/28/19
N03/N02	Blank	mg∕l	< 0.05	8/28/19
N03/N02	IPC_Blk	mg/l	< 0.05	8/28/19
N03/N02	B1k	mg/l	< 0.05	8/28/19
N03/N02	IPC_B1k	mg/l	< 0.05	8/28/19
NO3/NO2	Blank	mg/l	< 0.05	9/6/19
N03/N02	IPC_Blk	mg/l	< 0.05	9/6/19
N03/N02	Blank	mg/l	< 0.05	9/6/19
N03/N02	IPC_Blk	mg/l	< 0.05	9/ 6/19
N03/N02	Blank	mg/l	< 0.05	9/6/19
N03/N02	IPC_Blk	mg/l	< 0.05	9/6/19

Andy Schut Lab Manager/Yakima

Approved by

aft

Page:



1-800-545-4206

(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

(509) 452-7707 Fax: (509) 452-7773 1008 W. Ahtanum Rd. Union Gap, WA 98903 Account: 20791 Sampler: Rob

Analysis

617.

< 5

< 5

Date Sampled: 8/27/19
Date Received: 8/28/19
Report Date:10/ 9/19

-0.32

0.00

0.00

## Quality Assurance Report

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Batch number 997784

Bicarb 19-E029474

Carbonate 19-E029248

Carbonate 19-E029474

	Acceptable Limit = 20 % RPD								
Analyte	Sample ID	Units	Original Result	Duplicate Result	% RPD				
Alk.	19-E029248	mg/L	487.	479.	-1.66				
Alk.	19-E029474	mg/L	619.	617.	-0.32				
Bicarb	19-E029248	mg/L	487.	479.	-1.66				
	요리 아이들 유명이 보고 얼마를 모르게 보고 있다.				A 3A				

619.

< 5

< 5

Duplicate

mg/L

mg/L

mg/L

Andy Schut Lab Manager/Yakima

Approved by _

aft

Page:



A EUROFINS COMPANY 1-800-545-4206

(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

(509) 452-7707 Fax: (509) 452-7773 1008 W. Ahtanum Rd. Union Gap, WA 98903

Account: 20791 Sampler: Rob

Date Sampled: 8/27/19 Date Received: 8/28/19 Report Date: 10/ 9/19

#### Quality Assurance Report

HydroCon Craig Hultgren 314 W 15th St #300 Vancouver, WA 98626

Batch number 997784

#### Analysis Check Standard

#### Acceptable Limits = 85 - 115 %

Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
Alk.	Known	mg/L	 98.0	100.	98	9/ 6/19
Alk.	Known	mg/L	98.5	100.	98	9/6/19
Bicarb	Known	mg/L	98.0	100.	98	9/ 6/19
Bicarb	Known	mg/L	98.5	100.	98	9/6/19
SO4/IC	IPC Low	mg/L	0.48	Ø.50	96	8/28/19
S04/IC	IPC HI	mg/L	10.0	10.0	100	8/28/19
SO4/IC	LFB	mg/L	8.21	8.00	103	8/28/19
SO4/IC	IPC_Low	mg/L	Ø.49	0.50	98	8/28/19
SO4/IC	IPC_HI	mg/L	9.96	10.0	100	8/28/19
SO4/IC	LFB	mg/L	8.21	8.00	103	8/28/19
SO4/IC	IPC_Low	mg/L	Ø.49	0.50	98	8/28/19
SO4/IC	IPC HI	mg/L	9.99	10.0	100	8/28/19
SO4/IC	IPC_Low	mg/L	0.47	0.50	94	9/6/19
SO4/IC	IPC HI	<b>տց/</b> ∟	9.89	10.0	99	9/6/19
SO4/IC	LFB	mg/L	8.06	8.00	101	9/6/19
SO4/IC	IPC_low	mg/L	0.47	0.50	94	9/6/19
SO4/IC	IPC_HI	mg/L	9.90	10.0	99	9/6/19
SO4/IC	LFB	mq/L	8.11	8.00	101	9/6/19
SO4/IC	IPC_Low	mg/L	Ø.49	0.50	98	9/6/19
SO4/IC	IPC_HI	mg/L	9.90	10.0	99	9/6/19
		的 医双氯苯酚 艾克斯特克 电流电阻电池				

Andy Schut Lab Manager/Yakima

Approved by

CAIDE NE

Page:



This form also serves as "Chain of Custody."

Customer Signature:

CAICOF - 03

	3019 G. S. Center Rd. Wenatchee, WA 98801		WATE	R ANALYS	SIS ORDER	F(	OF	۲N	/I	
	(509) 662-1888 Fax: (509) 662-8183		Batch#	999	7925	1	~		LE#	
; 9.3	1-800-545-4206		SEND RESULTS TO	1 /	1 101 -	1	2	3	4	5
	1008 W. Ahtanum Rd.		1) Client 2) Billing SAMPLE REPRESEN	ITS		+		1	1	+
من المُعْرِقُ الْمُعْرِقُ اللَّهِ عَلَيْهِ الْمُعْرِقُ الْمُعْرِقِ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعِلَّ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقِ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقِ الْمُعِلِقِ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقِ الْمُعِلِقِ الْمُعْرِقِ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقِ الْمُعْرِقِ الْمُعْرِقُ الْمُعْرِقُ الْمُعْرِقِ الْمُعْرِقِ الْمُعْرِقِ الْمُعْرِقِ الْمُعْرِقِ الْمُعْرِقِ الْمُعْرِقِ الْمُعْرِقِ الْمُعِلِقِ الْمُعِلَّ الْمُعِلَّ الْمُعِلِي الْمُعِلِقِ الْمُعِلِي الْمُعِلْمُ الْمُعِلْمُ الْمُعِلِي الْمُعِلْمُ الْمُعِلِمُ الْمُعِلِمُ الْمُعِلِمُ الْمِ	Union Gap, WA 98903 (509) 452-7707		1) Irrigation 2) Was	<u></u>		1987			100 (100)	+
CASCADE ANALYTICAL, IN	Fax: (509) 452-7773		1) Client 2) Quality	Control 3) Cascade	4) Other	1		<u> </u>		1
	*		New Acct. #		(see legend on back)	,	SA	MPL	.E#	.,
CLIENT NAME/ADDRESS	BILLING NAME	:/ADDBE	contraction in the contraction of the contraction o	a a Sept was transmission and a Sept a Sept	IRRIGATION WATER	1	2	3	4	5
Cross Hilter Himler	BILLING WANT	C.	2 165 Clica)		Standard			<u> </u>	<u></u>	
					GENERAL CHEMI	SIR	Y Tan	[20]	Tan-	Т
1314 W 154 St Sah 300			E	MAL	<del></del>	Mei UMA	1000		-	1.674 1.674
,				10/01	1140 Conductivity 1200 Solids-Dis. (TDS)	117	2.01 2.01		ide Viv	-
Vercouver 44 98626	PILOUE **	Audi Cala		701110	1230 Solids-Susp. (TSS)	F	4.3 (3.3			
SAMPLER'S NAME	PHONE 2 U	6 5	556-667G	di	1240 Tot. Phosphorus			N.		
FUE TONISERY			pa. Trastras Váriadas as estas	istorial de la Maria de la	1250 Orthophosphale				ý.	
E-mail Clargh @ Hydrocom HC. No	E-mail				1260 Kjeldahl Nitrogen (TKN)			29	100	
- Halana Pin Kaladaha kipenda Jawa madi Hi Halanda in Halanda	QUISHED BY: (Signature) 2 C	DATE	RELINQUISHED BY: (Signature	e) 3 DATE	1170 Nitrate+Nitrite	X	χ	χ	X	111
1 1 2 Mg   8-244					1265 NO ₃ (As N)	(\$\$) (\$)			. N.	2.5
(Printed) TIME (Printed		TIME	(Printed)	TIME	1280 Ammonia		intra Silvania			Ċ
PALL A Hardon 6935					1300 Biol. Oxy. Demand					
Fort a day, and Selection	ktore parengor per þ		kitangga alup bes		1310 Chem. Oxy. Demand	M.				
RECEIVED BY: (Signature) DATE RECEIVED	VED BY: (Signature) D	ATE	RECEIVED FOR LAB BY: (Sign	nature) DATE	1190 Sulfate (SO4)	1000 0000		624 624		
Las Hyalia		1000			1180 Chloride (CI) 1150 Turbidity					
TAXOUND PILL					1320 Hexane Ext. Mat.	1105 1100				-
(Rinted) TIME (Printed	"	TIME /	(Printed)	TIME	1340 Alkalinity					15.7 10
11 ) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					217 Total N Pkg					1174
FORM MUST BE COMPLETED BER	FORE ANALYSIS WILI	DE	DEDEODMED	N 1916   18 18 18 18 18 18 18 18 18 18 18 18 18					1.1	
SOI TI pass because the consequence	OKE MIAMEI 313 ANIEI	LDE	PERFORMED.	consequence and	MICROBIOLOGY		<u> </u>		<u> </u>	سنسنا
3/14// Mu28-W	<u> 16 eresuleur N</u> acasti Macua			Sample Date	10040 Total Coliform MF	4 N				
				Sample Time	10010 Fecal Coliform MF		64 17%		Ď.	ă.
29477 (mo)-W				Sample Date	10041 Total Coliform MPN					
2 2				Sample Time	10011 Fecal Coliform MPN					
				Sample Time	METALS - TOTAL	OR E	DISS	OLV	ED	
294/3   M20-W				Sample Date イノー ユピートへ	1391 Antimony (Sb)					
	alignation of the store			Sample Time	1011 Arsenic (As)					_
29474 BHOS-W	ovalski province uszale i králi kralice sobe			Sample Date	1025 Barium (Ba) 1405 Beryllium (Be)	100 m				
4 / 1 / / 4   WAR 19			8-28-19	1031 Cadmium (Cd)		MA I			11.	
				Sample Time	1045 Chromium (Cr)					
				Sample Date	1215 Copper (Cu)					
5				Sample Time	1065 Iron (Fe)					
BATTER BASE SHOPE SHOPE SHOPE SHOPE		\$16,549.010.		Particular and the state of sections	1075 Manganese (Mn)					
*METALS - circle type of analysi		ed			1081 Mercury (Hg)					W
Total N package = TKN, NO ₃ , N Sample container received b		V	es No		1435 Molybdenum (Mo)					
Sample container received b					1051 Lead (Pb)					
·	,				1335 Nickel (Ni)					
<b>Disclaimer:</b> Cascade Analytical, Inc., makes no warranty of	of any kind, expressed or imp	olied, a	nd customer assumes al	I risk and liability	1091 Selenium (Se)					
from the use of Cascade's test results. Cascad other liability in connection with the testing dor	le neither assumes nor auth	orizes	any person to assume t	for Cascade any	1105 Silver (Ag)				237	
warranties collateral to or affecting this agreement	ent.			v	1381 Thallium (TI)			5/2 13/3		
Cascade Analytical Inc.'s liability to customer sum equal to the fees paid by customer to Casc	as a result of customers use cade Analytical. Inc. for the te	e of Ca	ascade's test results sha work	all be limited to a	1225 Zinc (Zn) MINERALS	M.		<u>888  </u>		<u> </u>
Jan 19 19 19 19 19 19 19 19 19 19 19 19 19					1120 Calcium (Ca)	4:5400 - F8500A		36		
Customer Signature:		*,***	Date 8-28	-19	1130 Magnesium (Mg)		(55/68 (6/88	380°		3073) (1890)

1115 Potassium (K)

1110 Sodium (Na)

REV. 04/26/2013



(509) 452-7707 Fax: (509) 452-7773 1008 W. Ahtanum Rd. Union Gap, WA 98903 Account: 20791 Sampler: Rob

Date Sampled: 8/28/19 Date Received: 8/30/19 Report Date:10/ 9/19

## Quality Assurance Report

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Batch number 997925

		Blank	Analysis		
Analyte	Blank ID	Units	Blank Results	Date Analyzed	ellen menten kolonia en kolonia en menten kolonia en menten kolonia en menten kolonia en menten kolonia en kol
SO4/IC	Blank	mg/L	< Ø.1	8/30/19	
SO4/IC	IPC Blk	mq/L	< Ø. 1	8/30/19	
SO4/IC	Blank	mg/L	< Ø. 1	8/30/19	
S04/IC	IPC Blk	mg/L	< 0.1	8/30/19	
N03/N02	Blank	mq/1	< 0.05	8/30/19	
N03/N02	IPC Blk	mg/l	< 0.05	8/30/19	
N03/N02	Blank	mg/1	< 0.05	8/30/19	
N03/N02	IPC_B1k	mg∕l	< 0.05	8/30/19	

Andy Schut Lab Manager/Yakima

Approved by

aft

Page:



(509) 452-7707 Fax: (509) 452-7773 1008 W. Ahtanum Rd. Union Gap, WA 98903 Account: 20791 Sampler: Rob

Date Sampled: 8/28/19
Date Received: 8/30/19
Report Date:10/ 9/19

## -- Quality Assurance Report -

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Batch number 997925

	$\dot{-}$ D $\cup$	plica	ate An	alysis	
		Acceptabl	le Limit = 20	2 % RPD	ummanyani universitasiny muutamatainen ete met Entiretta posyenyen jortusen etenen etenen etenen etenen etenen
Analyte	Sample ID	Units	Original Result	Duplicate Result	% RPD
Alk. Bicarb Carbonate	19-E029474 19-E029474 19-E029474	mg/L mg/L mg/L	619. 619. < 5	617. 617. < 5	-0.32 -0.32 0.00

Andy Schut Lab Manager/Yakima

Approved by

after

Page:



CASCADE ANALYTICAL
A EUROFINS COMPANY

(509) 662-1888 Fax: (509) 662-8183 3019 G. S. Center Road Wenatchee, WA 98801

(509) 452-7707 Fax: (509) 452-7773 1008 W. Ahtanum Rd. Union Gap, WA 98903 Account: 20791 Bampler: Rob

Date Bampled: 8/28/19 Date Received: 8/30/19 Report Date:10/ 9/19

1-800-545-4206 Quality Assurance Report -

HydroCon Craig Hultgron 314 W 15th 8t #3例例 Vancouver, WA 98626

Batch number 997925

		Spik	e Re	∍sult:			
		Acceptab.	le Limit	s = 75 - 1	25 %		and dissipation to the contract of the contract of the contract of Australy Contract of Australia (Contract of
Analyte	Sample ID	Date Analyzed	Units	Original Result	Spike Amount	Amount Found	Percent Recovery
804/IC 804/IC	19-E029377 19-E029377	8/30/19 8/30/19	mg/L mg/L	4.82 4.82	40.0 40.0	45.0 44.9	100 100

Andy Schut Lab Manager/Yakima

Approved by _

CAIRE - 05

aft

Page:



(509) 452-7707 Fax: (509) 452-7773 1008 W. Ahtanum Rd. Union Gap, WA 98903 Account: 20791 Sampler: Rob

Date Sampled: 8/28/19
Date Received: 8/30/19
Report Date:10/ 9/19

#### Quality Assurance Report

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Batch number 997925

<u> </u>	4atrix	Spik	e Duplic	cate Res	ults	
		Accepta	ble Limits = 20	% RPD		Palaminial A-N-M _{arch} (Chronic Brombing Schools of Principle Seconds)
Analyte	Date Analyzed	Units	Original Spk. Result	Duplicate Spk. Results	% RPD	
504/IC	8/30/19	 mg/L	45.0	44. 9	-Ø.22	

Andy S**chut** Lab Manager/Yakima

Approved by

aft

Page:



(509) 452-7707 Fax: (509) 452-7773 1008 W. Ahtanum Rd. Union Gap, WA 98903 Account: 20791 Sampler: Rob

Date Sampled: 8/28/19
Date Received: 8/30/19
Report Date:10/ 9/19

## -- Quality Assurance Report

HydroCon Craig Hultgron 314 W 15th St #300 Vancouver, WA 98626

Batch number 997925

			tanda	rd Hna	arysis	articular assumes				
	Acceptable Limits = 85 - 115 %									
Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed				
Alk.	Known	mg/L	98.5	100.	9 <b>8</b>	9/6/19				
Bicarb	Known	mg/L	98.5	100.	98	9/6/19				
SO4/IC	IPC_Low	mg/L	<b>0.</b> 49	0.50	98	8/30/19				
SO4/IC	IPC_HI	mg/L	10.0	10.0	100	8/30/19				
SO4/IC	LFB	mq/L	8.10	8.00	101	8/30/19				
SO4/IC	IPC Low	mg/L	Ø. 4B	0.50	96	8/30/19				
SO4/IC	IPC HI	ma/L	10.0	10.0	100	8/30/19				

Andy Schut Lab Manager/Yakima

Approved by

Page:

# APPENDIX C DATA QUALITY REVIEW REPORT

TO:	Craig Hultgren, HydroCon		]				
FROM:	Manon Tanner-Dave						
DATE:	October 16, 2019	]					
SUBJECT:	Laboratory Validation Report		]				
HydroCon TOC Site No.	Coleman Wenatchee – 2017-074						
Sampling Event Type:	Water Sampling	Number of Samples:	30				
Laboratory Work Order:	997704, 997725, 997784	Final Report Date & Time:	September 9, 2019				
Analysis & Method							
<ul> <li>☑ Diesel Range Hy</li> <li>☐ Diesel Range Or</li> <li>☐ Volatile Organic ©</li> <li>☐ BTEX (EPA 8260</li> <li>☐ Total Manganese</li> <li>☑ Sulfate (EPA 300</li> </ul>	e (EPA 200.8)		as N (EPA				
Data Package Complet	eness:						
Data package was complete. Lab QA forms were provided upon request.							
EDD to Hardcopy Verification:							
An EDD was not provide	ed.						

☐ Surrogate Compounds
☐ Associated Matrix Spike/Matrix Spike Duplicate (MS/MSD)
□ Associated Laboratory Duplicate
□ Laboratory Control Sample/ Laboratory Control Sample Duplicates (LCS/LCSD)
□ Field Duplicates
□ Target Analyte List
☐ Reporting Limits (MDL and MRL)
⊠ Reported Results
Holding Times & Sample Receipt:
All holding times and sample receipt were acceptable. Samples were received by the lab on the same day as collection on ice.
Surrogate Compounds:
Not applicable.

**Technical Data Validation:** 

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

Not applicable.

#### **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.

#### Field Duplicate(s):

Three sets of parent/field duplicate samples were collected and analyzed (MW06-W/MW100-W, MW17-W/MW101-W, and BH01R-W/MW102-W); all RPDs were within control limits, with the following exceptions:

Sample ID	Sample	Duplicate	Reporting		
Analyte	Result (mg/L)	Result (mg/L)	Limit (mg/L)	RPD	Comments/Qualifiers
MW17-W/MW101-W					
Alkalinity	418	4090	5	163%	J-REP qualify parent and duplicate
Bicarbonate	418	4090	5	163%	results.

#### **Target Analyte List:**

All requested analytes were present.

#### Reporting Limits (MDL and MRL):

Reporting limits were within the acceptance criteria.

Reported Results:
All reported results are acceptable.
Lab Walldation Assessment
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 this data validation rev	data validation qualifier codes and their definitions that were assigned to analytical resulview process.	ults in					
Data Validation Qualifiers and Definitions:	$\Box$ (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.						
	$\hfill \square$ (DNR) Do not report. A more appropriate result is reported from another analysis or dilution.						
Appendix B. Data Va	alidation Qualified Summary Table						

## Appendix B. Validator Qualified Data Summary Table

Sample	Laboratory ID	Method	Parameter Name	Result	Result Units	Laboratory Qualifier	Validator Qualifier	Reason Code
MW17-W	19-E029047	SM 2320-B	Alkalinity (as CaCO3)	418	mg/L		J	REP
MW17-W	19-E029047	SM 2320-B	Bicarbonate (as CaCO3)	418	mg/L		J	REP
MW101-W	19-E029048	SM 2320-B	Alkalinity (as CaCO3)	4090	mg/L		J	REP
MW101-W	19-E029048	SM 2320-B	Bicarbonate (as CaCO3)	4090	mg/L		J	REP

то:	Craig Hultgren, HydroCon		
FROM:	Manon Tanner-Dave		
DATE:	September 25, 2019		
SUBJECT:	Laboratory Validation Report		]
HydroCon TOC Site No.	Coleman Wenatchee – 2017-074		
Sampling Event Type:	Water Sampling	Number of Samples:	32
Laboratory Work Order:		Final Report Date & Time:	September 18, 2019
Order.	А9Н0906	Date & Time.	
Analysis & Method			
□ Diesel Range Hy     □ Diesel Range Org	·	Ox) 🗆	
Data Package Complet	eness:		
Data package was com	plete.		
EDD to Hardcopy Verif			1
An EDD was not provide	ed.		

#### **Technical Data Validation:**

- □ Laboratory Control Sample Duplicates (LCS/LCSD)

- □ Reporting Limits (MDL and MRL)
- □ Reported Results

#### **Holding Times & Sample Receipt:**

All holding times and sample receipt were acceptable, with the exceptions noted below:

**BTEX:** The sample "Trip Blank" was analyzed outside of the recommended holding time; results for this sample were qualified as estimated (UJ-HT).

#### **Surrogate Compounds:**

All surrogate percent recoveries (%R) were within laboratory limits.

#### 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.

Matrix Spike Sample	Percent	Control	Associated	
Compound	Recovery	Limits	Samples	Comments/Qualifiers
90810505-MS3/MW08-W				
Manganese	-41%	70-130%	MW01S-W	Control limits are not
9081505-MS4/MW28-W			MW03S-W	applicable; sample
Manganese	-69%		MW06-W	concentration >4x the
			MW08-W	added spike
			MW09R-W	concentration. No
			MW11-W	qualifiers applied to
			MW12-W	the results.
			MW13R-W	
			MW14-W	
			MW16-W	
			MW17-W	
			MW20-W	
			MW21-W	
			MW23-W	
			MW24-W	
			MW25-W	
			MW26-W	
			MW27-W	
9081522-MS3/BH01-W			MW28-W	
	F000/	70-130%	NAVA (20 VA/	Control limits are not
Manganese 9081522-MS4/MW10R-W	-583%	70-130%	MW30-W MW31-W	applicable; sample
	2200/		MW32-W	concentration >4x the
Manganese	230%		BH01-W	added spike
			BH02-W	concentration. No
			BH03-W	qualifiers applied to
			RW01-W	the results.
			MW100-W	uio resuits.
			MW101-W	
			MW102-W	
			MW10R-W	

#### **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.

One field blank (190827Blank-W) 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 (MW06-W/MW100-W, MW17-W/MW101-W, and BH01R-W/MW102-W); all RPDs were within control limits.

#### **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.

#### Laboratory qualifiers for NWTPH-Dx:

- (F-11) The hydrocarbon pattern indicates possible weathered diesel, or a contribution from a related component.
  - o J/UJ-Other qualify affected results.
- (F-13) The chromatographic pattern does not resemble the fuel standard used for quantitation.
  - o J/UJ-Chrom qualify affected results.
- (F-20) Result for Diesel is estimated due to overlap from Gasoline Range Organics or other VOCs.
  - o J/UJ-Mi qualify affected results.

#### Laboratory qualifiers for NWTPH-Gx:

- (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.
  - o J/UJ-Other 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 this data validation review	a validation qualifier codes and their definitions that were assigned to analytical results in 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

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

of the analyte cannot be verified.

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-20) Result for Diesel is estimated due to overlap from Gasoline Range Organics or other VOCs.

#### 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.
- HT = Holding time/sample preservation.
- Mi = Matrix interference.
- Other = Other, described in data validation report.

# Appendix B. Validator Qualified Data Summary Table

Sample	Laboratory ID	Method	Parameter Name	Result	Result Units	Laboratory Qualifier	Validator Qualifier	Reason Code
MW01S-W	А9Н0906-01	NWTPH-Dx	Diesel	269	μg/L	F-11, F-20	J	Other, Mi
MW03S-W	А9Н0906-02	NWTPH-Dx	Diesel	114	μg/L	F-11	J	Other
MW06-W	А9Н0906-03	NWTPH-Dx	Diesel	1,200	μg/L	F-13	J	Chrom
MW08-W	А9Н0906-04	NWTPH-Dx	Diesel	1,320	μg/L	F-13, F-20	J	Chrom, Mi
MW09R-W	А9Н0906-05	NWTPH-Dx	Diesel	5,880	μg/L	F-13	J	Chrom
MW11-W	А9Н0906-06	NWTPH-Dx	Diesel	1,060	μg/L	F-13, F-20	J	Chrom, Mi
MW13R-W	А9Н0906-08	NWTPH-Dx	Diesel	2,180	μg/L	F-11, F-20	J	Other, Mi
MW14-W	А9Н0906-09	NWTPH-Dx	Diesel	1,280	μg/L	F-11, F-20	J	Other, Mi
MW16-W	А9Н0906-10	NWTPH-Dx	Diesel	349	μg/L	F-11	J	Other
MW17-W	А9Н0906-11	NWTPH-Dx	Diesel	6,730	μg/L	F-13	J	Chrom
MW20-W	А9Н0906-12	NWTPH-Dx	Diesel	870	μg/L	F-11, F-20	J	Other, Mi
MW21-W	А9Н0906-13	NWTPH-Dx	Diesel	605	μg/L	F-11, F-20	J	Other, Mi
MW23-W	А9Н0906-14	NWTPH-Dx	Diesel	580	μg/L	F-11	J	Other
MW24-W	А9Н0906-15	NWTPH-Dx	Diesel	560	μg/L	F-11, F-20	J	Other, Mi
MW25-W	A9H0906-16RE1	NWTPH-Dx	Diesel	262	μg/L	F-13	J	Chrom
MW26-W	A9H0906-17RE1	NWTPH-Dx	Diesel	266	μg/L	F-13	J	Chrom
MW27-W	А9Н0906-18	NWTPH-Dx	Diesel	467	μg/L	F-11	J	Other
MW28-W	А9Н0906-19	NWTPH-Dx	Diesel	1,010	μg/L	F-13	J	Chrom
MW30-W	А9Н0906-20	NWTPH-Dx	Diesel	557	μg/L	F-13	J	Chrom
MW32-W	А9Н0906-22	NWTPH-Dx	Diesel	302	μg/L	F-11	J	Other

BH01-W	А9Н0906-23	NWTPH-Dx	Diesel	1,910	μg/L	F-13	J	Chrom
BH02-W	А9Н0906-24	NWTPH-Dx	Diesel	6,150	μg/L	F-13	J	Chrom
BH03-W	А9Н0906-25	NWTPH-Dx	Diesel	816	μg/L	F-13	Ј	Chrom
RW01-W	А9Н0906-26	NWTPH-Dx	Diesel	116	μg/L	F-11	Ј	Other
MW100-W	А9Н0906-27	NWTPH-Dx	Diesel	1,320	μg/L	F-13	Ј	Chrom
MW101-W	А9Н0906-28	NWTPH-Dx	Diesel	5,800	μg/L	F-13	Ј	Chrom
MW102-W	А9Н0906-29	NWTPH-Dx	Diesel	2,300	μg/L	F-13	Ј	Chrom
MW10R-W	А9Н0906-31	NWTPH-Dx	Diesel	3,620	μg/L	F-13	J	Chrom
MW28-W	А9Н0906-19	NWTPH-Gx	Gasoline Range Organics	302	μg/L	F-03	Ј	Other
Trip Blank	А9Н0906-32	EPA 8260C	Benzene	< 0.200	μg/L	U	UJ	НТ
Trip Blank	А9Н0906-32	EPA 8260C	Toluene	< 1.00	μg/L	U	UJ	НТ
Trip Blank	А9Н0906-32	EPA 8260C	Ethylbenzene	< 0.500	μg/L	U	UJ	НТ
Trip Blank	А9Н0906-32	EPA 8260C	Xylenes, total	< 1.50	μg/L	U	UJ	НТ

# **APPENDIX D**

# WATER LEVEL AND PRODUCT THICKNESS MEASUREMENTS FORM



## **Depth to Water/Depth to Product Measurments**

Coleman Oil Wenatchee, Washington

**Date:** 8/29/2019

						Date:	8/29/2019
	Total Well Depth	Diameter	Screened Interval	Well Casing Elevation	Depth to Water	Depth to Product	Sheen Detected
Well ID	(feet bgs)	(inch)	(feet bgs)	(feet ¹ )	(feet BTOC)	(feet BTOC)	(Yes/No)
MW01	35.00	2	20-35	658.01	11.69		
MW01S	19.99	4	5.37 - 20.37	657.54	11.81		
MW02	40.00	2	25-40	657.76	11.65		
MW03	35.00	2	25-35	658.26	7.53		
MW03S	19.30	4	4.43 - 19.43	658.17	7.72		
MW04	37.00	2	27-37	657.48	16.14		
MW05	45.00	2	30-45	656.00	38.00		
MW06	18.00	4	8-18	657.70	10.89		
MW07	20.00	4	10-20	657.52	11.67		
MW08	25.00	4	15-25	656.20	15.96		
MW09R	32.60	4	8.59-33.59	653.55	19.84		
MW10R	33.59	4	14.64-34.64	644.30	25.39		
MW11	22.00	4	12-22	658.00	14.09		
MW12	19.52	4	4.63 - 19.63	658.27	7.70		
MW13R	18.46	4	4.23 - 18.23	656.67	7.61		
MW14	20.02	4	5.23 - 20.23	657.15	8.03		
MW15	35.10	4	10.33 - 35.33	654.99	Dry		
MW16	29.15	4	9.28 - 29.28	656.93	9.89		
MW17	29.41	4	9.52 - 29.52	655.55	14.23		
MW18	34.65	4	15.86 - 35.86	654.51	Dry		
MW19	31.48	4	11.66 - 31.66	653.31	30.45		
MW20	29.50	4	9.79 - 29.79	650.85	25.00		
MW21	32.10	4	12.30 - 32.30	643.88	20.59		
MW22	39.10	4	9.19 - 34.19	641.85	NR		
MW23	22.04	4	7.13 - 22.13	656.91	11.42		
MW24	34.25	4	14.17-34.17	644.38	26.51		
MW25	32.96	4	12.81-32.81	645.57	26.02		
MW26	32.52	4	13.54-33.54	646.65	26.33		
MW27	38.74	4	13.56-38.56	649.00	23.89		
MW28	38.74	4	13.62-38.62	650.64	24.96		
MW29	39.11	4	14.05-39.05	652.34	30.67	Trace	
MW30	39.79	4	14.67-39.67	652.83	35.05		
MW31	39.28	4	14.11-39.11	653.97	34.62		
MW32	34.02	4	8.95-33.95	655.83	12.01		
BH01R	39.97	4	14.52-39.52	651.03	24.64		
BH02	35.00	2	20-35	653.77	28.51		
BH03	30.00	2	15-30	648.76	25.43		
RW01	30.00	3	15-30	650.42	26.80		

#### NOTES:

feet¹ = Elevation is relative to NGVD88

bgs = below ground surface

PVC = polyvinyl chloride

BTOC = below top of casing

NR = Not Recorded