

**AGENCY REVIEW DRAFT  
SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT– PHASE 4  
CHELAN CHEVRON  
CLEANUP SITE ID: 6660  
232 East Woodin Avenue  
Chelan, Washington**

**July 8, 2019**

**Prepared for:  
Washington State Department of Ecology  
1250 West Alder Street  
Union Gap, Washington 98903**

**Prepared by:  
Leidos, Inc.  
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Bothell, Washington 98011**

**On Behalf of:  
Chevron Environmental Management Company  
6001 Bollinger Canyon Road  
San Ramon, California 94583**

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Principal Engineer

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**1. INTRODUCTION AND OBJECTIVES**

Leidos, Inc. (Leidos), on behalf of Chevron Environmental Management Company (Chevron), prepared this report to summarize the results of the fourth phase of Supplemental Remedial Investigation activities (SRI Phase 4) conducted at the Chelan Chevron site (the Site) in Chelan, Washington. SRI Phase 4 field activities were performed between October 22 and November 17, 2018. SRI activities for the Site are being performed pursuant to the terms of Agreed Order No. DE 10629, which was entered into by Chevron and the Washington State Department of Ecology (Ecology) in June 2014.

The objective of SRI Phase 4 was to expand upon previous work performed to address data gaps regarding the presence of petroleum hydrocarbon contamination and light non-aqueous phase liquid (LNAPL) at the Site. Specifically, the SRI Phase 4 field activities included the following investigation elements:

1. Investigation of suspected undocumented underground storage tanks (USTs) in the vicinity of monitoring well MW-21;
2. Installation of four new groundwater monitoring wells to further delineate the eastern and western extents of the Site;
3. Additional investigation to further delineate LNAPL occurrence in the vicinity of monitoring well MW-10; and
4. Additional investigation along East Woodin Avenue to evaluate the potential for additional petroleum sources in the vicinity of monitoring well MW-17.

Investigation activities summarized in this report were performed according to the procedures described in the Final Supplemental Remedial Investigation Work Plan – Phase 4 (SRI Phase 4 Work Plan), dated October 22, 2018 (Leidos, 2018).

**2. PROJECT BACKGROUND**

Pursuant to the terms of an earlier Agreed Order for the Site (Agreed Order No. DE 02TCPCR-4905), Science Applications International Corporation (SAIC, a predecessor of Leidos), on behalf of Chevron, submitted a Remedial Investigation and Feasibility Study (RI/FS) report to Ecology in December 2006 (SAIC, 2006). That document is referred to as the 2006 RI/FS throughout the remainder of this report. In consultation with Ecology, the 2006 RI/FS identified Alternative 2C as the preferred cleanup alternative for the Site, which consisted of natural attenuation for soil, periodic LNAPL removal by bailing, and monitored natural attenuation of groundwater in the shallow perched aquifer. The 2006 RI/FS was approved by Ecology with no comments, by letter dated January 29, 2007, which completed the requirements of Agreed Order No. DE 02TCPCR-4905. Following approval of the 2006 RI/FS and satisfaction of the original Agreed Order, Chevron worked cooperatively with Ecology to develop a draft Cleanup Action Plan (dCAP) for the Site.

By letter dated November 1, 2012, Ecology rescinded approval of the 2006 RI/FS and requested that Chevron conduct a Supplemental Feasibility Study to evaluate more aggressive cleanup technologies for the Site. In June 2014, Chevron and Ecology entered into Agreed Order No. DE 10629, which requires that Chevron complete a Supplemental Remedial Investigation (SRI) and Supplemental Feasibility Study (SFS), and prepare a dCAP for the Site. Following execution of the 2014 Agreed Order, Leidos, on behalf of Chevron, planned and executed the first phase of SRI activities, which included two rounds of Tier 2 vapor intrusion assessment sampling, LNAPL transmissivity evaluation by baildown testing, and an expanded scope of groundwater monitoring. That work is documented in reports prepared by Leidos that were submitted to Ecology in December 2015 and June 2016 (Leidos, 2015 and 2016).

In October and November 2016, Leidos conducted a second round of SRI activities (SRI Phase 2) at the Site, which included use of laser-induced fluorescence (LIF) technology to allow collection and real-time analysis of LNAPL distribution data in soil. This phase of SRI activities also included soil core collection and analysis, installation of two new monitoring wells (MW-38 and MW-39), and a shallow soil sampling investigation near monitoring well MW-5. Results of the SRI Phase 2 field activities are presented in a summary report dated May 31, 2017 (Leidos, 2017).

In November 2017, Leidos initiated a third round of SRI activities (SRI Phase 3), which consisted of two rounds of LNAPL transmissivity testing at select monitoring wells, and also included redevelopment of the test wells between each round of testing. The second and final round of LNAPL transmissivity testing for this phase of SRI activities was completed in April 2019. Results of this work will be presented in a forthcoming summary report to be submitted under separate cover.

### **3. SUMMARY OF SRI PHASE 4 FIELD ACTIVITIES AND RESULTS**

#### **3.1 INVESTIGATION OF SUSPECTED UNDOCUMENTED USTS IN THE VICINITY OF MONITORING WELL MW-21**

This component of the SRI Phase 4 field activities was conducted to determine whether suspected undocumented underground storage tanks (USTs), which had been identified by a GPR survey on April 27, 2018, were present beneath the sidewalk near monitoring well MW-21, and if so, to evaluate whether the USTs are an on-going or potential future source of petroleum hydrocarbon impacts to soil and groundwater in this area. Additional discussion regarding the results of the GPR survey are presented in the SRI Phase 4 Work Plan.

As proposed in the SRI Phase 4 Work Plan, confirmation of the presence of the undocumented USTs was performed using air/vacuum excavation (air-knife) equipment to advance shallow “pothole” excavations above the central portion of each suspected UST location. The first undocumented UST (shown as UST-A on Figure 2) was confirmed on October 25, 2018 in the northern portion of the landscape planter in front of the building at 141 E. Woodin Avenue. The top of this UST was found to be approximately 4 feet below ground surface at this location. The other two USTs suspected in this area were confirmed by air-knife borings completed on November 7, 2018. These USTs are shown as UST-B and UST-C on Figure 2. A fourth UST, which was not previously identified by the GPR survey in this area, was also discovered during

soil sampling activities near the UST basin. It is believed that shallow piping detected by the GPR in this area prevented the GPR from detecting this fourth UST.

Following confirmation that USTs were present, Leidos collected soil samples from seven shallow soil borings advanced in the vicinity of the undocumented USTs. Soil boring locations are shown on Figure 2. Borings were advanced using a combination of air-knife and hand-auger boring techniques, with samples collected approximately every 2 feet using a hand auger. A hand auger was also used to remove at least 6 inches of soil above each intended soil sample interval, in order to minimize potential disturbance of the sample interval by use of the air-knife equipment. Soil samples were logged by a Leidos geologist and field screened for indications of potential petroleum contamination by headspace vapor measurements using a photoionization detector (PID), sheen testing, and olfactory sensing. Boring logs are presented in Appendix A.

Six soil samples were submitted for laboratory analysis. Each submitted sample was collected from the bottom-most extent of its boring location (7 to 8 feet bgs) in order to represent soil conditions near the approximate base of the undocumented UST basin. Field screening results provided no significant indicators of petroleum impacts. Although one or more petroleum constituents were detected in each of the samples, all results were below MTCA Method A cleanup levels. Soil sampling analytical results is presented in Table 1.

During air-knife advancement at boring location UST-7, three steel lines (possibly product lines associated with the USTs) were encountered, beginning at approximately 31.5 inches bgs and extending to a depth of approximately 45 inches bgs. The lines were aligned in an approximate east-west orientation (parallel to the sidewalk) and were estimated to be approximately 1.25 to 1.5 inches in diameter. Below the lines, the northern end of UST-B was encountered at approximately 52 inches bgs and a hole (believed to have been caused by rust-through of the tank) was found. Leidos personnel gauged the bottom depth of the tank to be approximately 94 inches bgs using a tape measure. Liquid was visible in the tank; therefore, Leidos used a disposable bailer to collect a sample of the liquid present. This sample was analyzed for:

- Volatile organic compounds by SW-846 8260C;
- Gasoline-range organics (GRO) by NWTPH-Gx;
- Diesel-range organics (DRO) and heavy-oil range HRO by NWTPH-Dx modified; and
- Lead by SW-846 6010D.

GRO, DRO, and HRO were detected in the sample at concentrations less than MTCA Method A cleanup levels. Acetone was detected, at a concentration of 0.9 micrograms per liter ( $\mu\text{g/l}$ ), which is less than the MTCA Method B cleanup level for this compound, based on protection of groundwater quality. Lead was detected at a concentration of 347  $\mu\text{g/l}$ , which exceeds the Method A cleanup level of 15  $\mu\text{g/l}$ . Additional details can be found in the laboratory analysis report for Group Number 2008697, which is included in Appendix B.

Based on this phase of the SRI 4 field activities, the presence of at least four undocumented USTs was documented in the sidewalk/landscape planter area in the vicinity of monitoring well MW-21. Soil sampling results from in and around the undocumented UST basin have confirmed the presence of petroleum constituents in shallow soil in this area; however, at concentrations less than MTCA Method A cleanup levels. Based on the coarse nature of soils encountered near the base of the undocumented UST basin, it is likely that past releases of petroleum products in

this area quickly migrated vertically through this coarse soil horizon until reaching less permeable soils below.

### **3.2 NEW MONITORING WELL INSTALLATION (MW-40 THROUGH MW-43)**

This component of the SRI 4 field activities included installation of four new monitoring wells (MW-40 through MW-43).

Monitoring well MW-40 was installed in the southwestern portion of the Site, near Chelan Riverwalk Park. This monitoring well was previously proposed as part of the SRI Phase 2 investigation activities, which were conducted in November 2016. However, the well could not be completed at that time due to a lack of legal access to the property, which is owned by the Chelan County Public Utilities District (Chelan County PUD). Chelan County PUD issued a permit to Chevron in September 2018 for installation and monitoring of this well.

Monitoring wells MW-41 through MW-43 were installed to the east/northeast of the Chelan Chevron service station property, along the east side of the Sanders Street right-of-way. These wells were installed to address a request from Ecology for additional delineation of petroleum impacts to soil and groundwater to the east of the Site.

#### **3.2.1 Soil Boring and Sampling Procedures**

For installation of monitoring wells MW-40 through MW-43, soil boring advancement from ground surface to 8 feet bgs was accomplished using an air-knife rig, with collection of soil samples every 2 feet using a hand auger (the hand auger was also used to remove at least 6 inches of overburden soil from above each intended soil sample interval in order to minimize potential sample disturbance by the air-knife equipment).

Below 8 feet bgs, borings were typically advanced using a sonic drill rig equipped with a 5-foot long “split-spoon” core barrel, with samples collected on a continuous frequency. This sampling methodology allowed for collection of longer (more continuous) soil cores than would be possible using a standard hollow-stem auger drill rig with conventional split-spoon sampling equipment. The split core barrel sampler also allowed collection of minimally disturbed sample cores, because the samples were not vibrated out of the core barrel as is typically done using conventional sonic drilling techniques. The soil cores collected by this method facilitated very detailed inspection, logging and field screening of the drilled soil interval. When necessary, conventional sonic-drilling sampling methods were utilized to collect samples within harder sampling intervals (e.g. the shallow gravel/cobble interval that is frequently encountered at approximately 8 to 15 feet bgs at the Site) or when problems were encountered retaining samples within the split core barrel sampler. These samples were instead collected in plastic sleeves. Soil samples were logged by a Leidos geologist and field screened for indications of potential petroleum contamination by headspace vapor measurements using a PID, sheen testing, and olfactory sensing. Boring logs are presented in Appendix A.

#### **3.2.2 MW-40 Soil Sampling Results and Monitoring Well Construction**

Monitoring well MW-40 was installed in the northern portion of the parking area to east of Chelan Riverwalk Park (Figure 1). The boring for this monitoring well was advanced to a depth of 45 feet bgs. Field screening results provided no strong indicators of petroleum impacts. No hydrocarbon odors or sheen were observed, and the maximum organic vapor measurement by the PID was 13.3 parts per million (ppm). Three soil samples were submitted for laboratory

analysis, from depths of 8, 33, and 44 feet bgs. Trace concentrations of HRO, toluene, 1-methylnaphthalene, 2-methyl-naphthalene, and lead were detected in the sample collected from 8 feet bgs. GRO and lead were detected in the samples collected from 33 and 44 feet bgs. However, no petroleum-related compounds were detected at concentrations exceeding MTCA Method A cleanup levels.

As described in the SRI Phase 4 Work Plan, monitoring well MW-40 was constructed similar to monitoring wells MW-38 and MW-39, which were designed to evaluate the extent of shallow perched groundwater to the southwest of the Site and its potential for communication with Lake Chelan. The well was constructed as a 2-inch diameter monitoring well with a 25-foot screened interval set at an elevation of approximately 1,075 to 1,100 feet above sea level, which was selected to allow for groundwater monitoring within the licensed surface level range for Lake Chelan (1,079 to 1,100 feet).

No groundwater was observed in the boring during drilling and installation of monitoring well MW-40. This well was also found to be dry during subsequent gauging events conducted by Gettler-Ryan Inc. (Gettler-Ryan) in December 2018 and April 2019, and during monitoring well redevelopment activities conducted by Leidos in March 2019. In June 2019, Gettler-Ryan measured 1.27 feet of water in the well casing, which would equate to a groundwater elevation of approximately 1,076 feet above sea level. Chelan PUD records indicate that the surface level elevation of Lake Chelan was approximately 1,097 feet above sea level at the time of Gettler-Ryan's June 2019 monitoring event.

### **3.2.3 MW-41 through MW-43 Sampling Results and Monitoring Well Construction**

Monitoring wells MW-41 through MW-43 were installed in the sidewalk along the eastern side of the Sanders Street right-of-way. Monitoring wells MW-41 and 42 were installed to the west of the property at 302 East Woodin Avenue (currently a 76-branded service station) and monitoring well MW-43 was installed in the sidewalk near the southwest corner of the property at 301 East Woodin Avenue (currently a Shell-branded service station). Please note that due to the sequencing of drilling work associated with installation of these wells, the as-built locations of monitoring well MW-41 and MW-43 are the opposite of their proposed locations in the SRI Phase 4 Work Plan.

Borings for monitoring wells MW-41 through MW-43 were each advanced to a maximum depth of 35 feet bgs. Field screening results provided no strong indicators of petroleum impacts in any of these borings, although a slight sheen was observed in association with several samples collected from the MW-43 boring. At least four samples from each boring were submitted for laboratory analysis. GRO, DRO, HRO, as well as one or more BTEX compounds, naphthalenes, and lead were detected in one or more of the soil samples from each boring (see Table 1).

GRO was detected at a concentration of 87 mg/kg in the sample collected from 9 feet bgs in boring MW-42 and at a concentration of 88 mg/kg from the sample collected at 10.5 feet bgs in boring MW-43. Benzene was not detected in any of the samples from either of these borings. Based on the shallow depth of these samples, as well as the generally upgradient location of these borings relative to the Chelan Chevron service station property, these GRO detections suggest that both the Shell and 76 branded service stations may have experienced petroleum product releases that are contributing to contamination in the vicinity of the Site.



Based on field observations and review of historical groundwater elevation data for previously existing monitoring wells in this vicinity, monitoring wells MW-41 through MW-43 were completed as 2-inch diameter monitoring wells with 20-foot, 0.010-inch slot screens set from 15 to 35 feet bgs.

### **3.3 LNAPL DELINEATION INVESTIGATION NEAR MONITORING WELL MW-10**

This component of the SRI 4 field activities was performed in order to further delineate the vertical extent of LNAPL in soil in the area immediately west of the Chelan Chevron service station property. Leidos completed four soil borings (RWB-1 through RWB-4) in this area, three of which were completed as 4-inch diameter wells to be used for future groundwater monitoring, LNAPL recovery, or LNAPL removal/recoverability pilot testing. A fifth boring location that was proposed in the southern portion of the Wells Fargo Bank drive-thru was not completed due to concerns regarding utilities believed to be present below 8 feet bgs that could not be positively located.

#### **3.3.1 Soil Boring and Sampling Procedures**

Soil boring and sampling procedures for this component of the SRI Phase 4 field activities were the same as those described above in Section 3.2.1. Boring logs are presented in Appendix A.

#### **3.3.2 RWB-1/RW-1 Soil Sampling Results and Well Construction**

Soil boring RWB-1 was located along the western boundary of the property at 222 East Woodin Avenue (currently Wells Fargo Bank), in the northern portion of the bank's drive-through lane (Figure 1).

This boring was advanced to a depth of 50 feet bgs. Field screening results provided strong indicators (elevated PID readings and odor) of petroleum impacts beginning within a thin interval at a relatively shallow depth of approximately 17.5 feet bgs in this boring. This appears to represent petroleum hydrocarbons retained within the first clay-rich silt layer encountered in the boring. The heavily contaminated soil zone is a greenish-gray color, similar to other thin heavily impacted zones identified by this investigation. Below that depth hydrocarbon-like odor generally persisted; however, PID readings generally decreased until a depth of approximately 33 feet bgs, where PID readings increased significantly and a medium to heavy sheen was observed. This zone represents contamination within a relatively coarser silt zone, sandwiched between finer clayey silt layers. Below this depth, hydrocarbon-like odor again persisted and PID readings decreased, but remained elevated within a range of approximately 100 to 400 ppm to the bottom of the boring. Below approximately 36 feet bgs, the soil yielded an aromatic hydrocarbon odor.

Seven soil samples, plus one additional duplicate sample, from boring RWB-1 were submitted for laboratory analysis (see Table 1). Analytical results indicate that GRO was detected at a concentration of 1,800 mg/kg in the sample collected from 17.5 feet bgs. The sample collected from 33 feet bgs contained GRO at a concentration of 23,000 mg/kg. This represents the highest concentration of GRO in soil ever detected at the Site. Soil samples from 44 and 49.5 feet bgs also exceeded the MTCA Method A cleanup level for GRO.

Based on the field screening results for soil samples collected at boring RWB-1, Leidos directed that the boring be completed as a 4-inch diameter well to allow for future monitoring and/or

hydrogeologic testing at this location. The well was completed with a 20-foot, 0.010-inch slot, screen set from 30 to 50 feet bgs, and was assigned the designation RW-1.

The RWB-1/RW-1 well screen was set at this relatively greater depth, and not shallower, for the following reasons. (1) Nearby monitoring well MW-10 has a more shallow screen (15-40 feet bgs), and the boring for this well did not yield hydrocarbon odors in the lower portion, as did RW-1. To aid in determining depths of NAPL entrance into the new well, and not duplicate the screen depth at MW-10, well RW-1 was screened deeper than this adjacent well. (2) The focus of the well screen depth selection for RW-1 was to capture the 33-foot bgs heavily contaminated soil zone and the underlying contaminated zones with an aromatic hydrocarbon odor (36-50 feet bgs). (3) In an attempt to keep the screen zone from extending vertically too long (per previous comments from Ecology), and also capture these contaminated zones, the screen was set at 30 to 50 feet bgs.

### **3.3.3 RWB-2/RW-2 Soil Sampling Results and Well Construction**

Soil boring RWB-2 was located in the City of Chelan parking lot north of Wapato Avenue, in the area approximately south of the property at 218 East Woodin Avenue (Figure 1).

RWB-2 was advanced to a depth of 50 feet bgs. Field screening results from this boring show indicators of petroleum impacts (hydrocarbon-like odor and increasing PID readings) beginning at approximately 23 to 25 feet bgs, within olive-gray, clayey silt. Hydrocarbon-like odors and similar clayey silt soil characteristics were observed throughout the remainder of the boring, except that a coarser silt interval was noted at approximately 48 feet bgs, as well as higher PID readings from 47 to 49 feet bgs. From approximately 30 to 39 feet bgs, the soil yielded an odor of both petroleum hydrocarbons and solvent. From 43 feet bgs to the bottom of the boring, soil had an aromatic hydrocarbon odor.

Five soil samples from boring RWB-2 were submitted for laboratory analysis (see Table 1). GRO and xylenes were detected above their MTCA Method A cleanup levels in the sample collected from 27.5 feet bgs, and benzene was detected above the Method A cleanup level in the samples collected from 37 and 48 feet bgs.

Based on the field screening results for boring RWB-, Leidos directed that the boring be completed as a 4-inch diameter well to allow for future monitoring, and/or hydrogeologic testing at this location. The well was completed with a 25-foot, 0.010-inch slot, screen set from 24 to 49 feet bgs, and was assigned the designation RW-2.

During groundwater monitoring events conducted by Gettler-Ryan in December 2018, April 2019, and June 2019, LNAPL has been measured in monitoring well RW-2 at thicknesses ranging from 0.10 to 1.15 feet.

### **3.3.4 RWB-3/RW-3 Soil Sampling Results and Well Construction**

Soil boring RWB-3 was located in the northwest portion of the Chelan Chevron service station property (Figure 1). This boring was advanced to a depth of 50 feet bgs. Field screening results show that the first strong indications of potential petroleum impacts (hydrocarbon-like odor and elevated PID readings) were first encountered at approximately 20 feet bgs. This zone appears to represent petroleum hydrocarbons retained within the uppermost silt layer encountered in the boring. However, only minor amounts of gravelly material were recovered within the interval from 16.5 to 20 feet bgs; therefore, it is possible that shallower impacted soils are present that

were not detected by the sampling efforts at this location. Below 20 feet bgs, hydrocarbon-like odors persisted to the bottom of the boring and PID readings varied, but were generally less than 100 ppm. Below approximately 41 feet bgs, the soil yielded an aromatic hydrocarbon odor.

Seven soil samples, plus one duplicate sample, from RWB-3 were submitted for laboratory analysis. GRO was detected in the soil samples collected at 20 feet and 32 feet bgs at concentrations above MTCA Method A cleanup levels, and benzene was detected in the samples from 45 and 49.5 feet bgs above Method A cleanup levels.

Although the field screening results for soil boring RWB-3 did not suggest that a heavily impacted LNAPL-bearing zone had been encountered at this location, Leidos elected to complete this boring as a 4-inch diameter well, designated RW-3, in order to provide future groundwater monitoring and LNAPL delineation data for the area immediately west of the Chelan Chevron service station's UST basin. RW-3 was completed with a 25-foot, 0.010-inch slot, screen set from 15 to 40 feet bgs.

### **3.3.5 RWB-4 Soil Sampling Results**

Soil boring RWB-4 was located in the southwest portion of the Chelan Chevron service station property (Figure 1). This boring was advanced to a depth of 50 feet bgs. Field screening results show that the first strong indications of potential petroleum impacts (hydrocarbon-like odor and elevated PID readings) were first encountered at approximately 21 feet bgs. Below 21 feet bgs, hydrocarbon-like odors persisted throughout the sampled interval to 50 feet bgs and PID readings varied between 2.2 and 1,392 ppm. Below approximately 34 feet bgs, the soil yielded an aromatic hydrocarbon odor.

Six soil samples from RWB-4 were submitted for laboratory analysis. GRO was detected in all four of the soil samples collected from 21 feet and below, at concentrations above MTCA Method A cleanup levels. Benzene, ethylbenzene, xylenes, and naphthalenes were detected above Method A cleanup levels only in the sample collected from 47 feet bgs at this location.

In addition to the standard soil analyses for this project, the sample from 47 feet bgs at this location was submitted for a full-list analysis of volatile organic compounds by SW-846 8260C. This analysis was requested in an attempt to identify the specific compound, or compounds, responsible for the solvent-like odors that have been noted in deep soil samples during SRI Phase 2 and Phase 4 soil boring activities along the 200 block of East Woodin Avenue. Results of the full-VOC analysis indicate that in addition to the standard BTEX and naphthalene compounds, the following chemicals were detected: n-butylbenzene, sec-butylbenzene, isopropylbenzene, p-isopropyltoluene, n-propylbenzene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene. Additional results of this analysis can be found in the laboratory analysis report for Group Number 2008697, which is included in Appendix B.

Based on the proximity of existing monitoring well MW-6, soil boring RWB-4 was not completed as a monitoring well.

## **3.4 PETROLEUM SOURCE INVESTIGATION NEAR MONITORING WELL MW-17**

This component of the SRI Phase 4 field activities was performed to further evaluate the potential for petroleum contamination contributions from historical gasoline fueling station operations at the properties located at 221 and 229 East Woodin Avenue, which are situated immediately north of the Chelan Chevron service station property. As further discussed in the



SRI Phase 4 Work Plan, the need for this work was based on recent groundwater sampling results from monitoring well MW-17, which suggested the presence of a shallow (< 20 feet bgs) source of GRO contamination in the vicinity of this monitoring well. Therefore, further investigation of this area was warranted.

### **3.4.1 Geophysical Survey**

Further investigation of the 221 and 229 East Woodin Avenue properties began with a geophysical survey along the sidewalk and northern portion of the East Woodin Avenue right-of-way to the south of the properties. This work was conducted on October 23, 2018. Three or possibly four discrete subsurface anomalies, which were interpreted as likely being USTs, were detected by GPR adjacent to the sidewalk in front of 221 East Woodin Avenue (Figure 1). The tops of the USTs were estimated to range from 2.5 to 3.5 feet bgs. No evidence of existing USTs was found in the area surveyed south of the property at 229 East Woodin Avenue. Additional details regarding the geophysical survey can be found in Geophysical Survey LLC's summary report, which is included as Appendix C.

### **3.4.2 Shallow Soil Borings near Suspected Undocumented UST Basin**

Based on the results of the geophysical survey, Leidos requested approval from the City of Chelan Department of Public Works to advance two shallow soil borings (UST-2 and UST-3) along the sidewalk south of 221 East Woodin Avenue, to the south of the suspected UST locations (Figure 1). This sampling was added to the SRI Phase 4 scope of work as a field modification to the work plan. This work was conducted in the sidewalk right-of-way, instead of on the 221 East Woodin Avenue property, because Leidos did not have an access agreement to conduct intrusive subsurface work on this property.

Borings were advanced using an air-knife rig, with soil samples collected every 2 feet using a hand auger for soil logging and field screening analyses. Boring logs are presented in Appendix A. Samples collected from 8 feet bgs at each boring location were submitted for laboratory analysis. DRO, HRO, and toluene were detected only in the sample submitted from boring UST-3; however, the results for all analytes were less than MTCA Method A cleanup levels (see Table 1).

### **3.4.3 MW-17 Area Soil Boring Investigation and Monitoring Well Installation**

As proposed in the SRI Phase 4 Work Plan, Leidos advanced seven soil borings (SRI4B-1 through SRI4B-7) within the shoulders/parking areas along the north and south sides of East Woodin Avenue, in the vicinity of monitoring well MW-17 (Figure 1). Soil boring and sampling procedures for this component of the SRI Phase 4 field activities were the same as those described above in Section 3.2.1. As previously discussed, the split core-barrel sampler utilized with the sonic drill rig provided high quality and minimally disturbed sample cores that allowed very detailed inspection, logging, and field screening of the 5-foot long soil core samples. Six or more samples from each boring were selected for laboratory analysis based on field screening results. Soil sample results are summarized in Table 1 and laboratory analytical reports are presented in Appendix B.

Analytical results for the seven SRI4B borings indicate that all of the borings contained GRO and/or BTEX at concentrations exceeding MTCA Method A cleanup levels. In soil boring SRI4B-5, which was located in closest proximity to the suspected USTs location, field screening results provided strong indications of petroleum impacts beginning at approximately 13.75 feet

bgs. This zone appears to represent petroleum hydrocarbons retained on top of and within the uppermost silt layer, where the upper contact was identified at approximately 14.0 feet bgs. Samples collected from this boring at 14.5 and 16.5 feet bgs contained GRO at concentrations of 15,000 mg/kg and 20,000 mg/kg, respectively. These results exceed the highest concentrations of GRO in soil detected during all previous investigation efforts at the Site. BTEX and naphthalenes levels in these samples were also in excess of Method A cleanup levels. The adjacent soil boring, SRI4B-4, also showed field and analytical indications of petroleum contamination at shallow depth, beginning at approximately 15.75 feet bgs. In both of these borings near the suspected UST basin, deeper zones of contamination generally coincide with coarser soil materials, including silt with little or no clay, as well as thin zones of very fine to fine sand.

Field screening and analytical results from the SRI4B borings suggest that the greatest levels of petroleum contamination present along East Woodin Avenue in the vicinity of the Chelan Chevron service station property are actually located to the north, near the suspected UST basin on the property at 221 East Woodin Avenue. In addition, the shallow depth at which very heavily impacted soil was encountered in boring SRI4B-5 strongly suggests that these impacts are from a source other than the Chelan Chevron station, where soil impacts have generally been found to begin at approximately 20 feet bgs. At a minimum, these results indicate that yet another contributing petroleum source has been identified for the Site. It seems likely that the suspected UST basin on the 221 East Woodin Avenue property may be determined to be the primary petroleum source for LNAPL and petroleum impacts to soil and groundwater that have been detected along the 200 block of East Woodin Avenue.

Although not originally planned as part of the SRI Phase 4 field activities, three of the seven SRI4B borings were completed as 2-inch diameter groundwater monitoring wells MW-44 through MW-46. The installation of these wells was a field modification to the SRI Phase 4 Work plan in order to allow collection of future groundwater monitoring data in this area.

Each of these wells was completed with a 20-foot or 25-foot, 0.010-inch slot, screen. Monitoring well MW-44 is screened from 14 to 39 feet bgs, and MW-45 and MW-46 are both screened from 18 to 38 feet bgs. Monitoring well MW-44, which was installed in boring SRI4B-5, was found to contain 0.92 foot of LNAPL on April 30, 2019 and 0.85 foot on June 10, 2019, during quarterly gauging performed by Gettler-Ryan. Gettler-Ryan field data sheets for these monitoring events are included as Appendix D.

### **3.4 MONITORING WELL DEVELOPMENT**

Due to concerns regarding the potential for freezing of drummed liquid waste after completing the SRI Phase 4 well installation activities in November 2018, Leidos delayed development of the new monitoring wells until March 2019. Well development activities were completed by Leidos personnel on March 26-29, and included development of new wells MW-41, MW-42, MW-43, MW-45, MW-46, RW-1, and RW-3. Monitoring well MW-40 was not developed because it did not contain measurable groundwater. Wells MW-44 and RW-2 were not developed because both of these wells contained measurable LNAPL at the time of the development activities.

Wells were developed by alternating periods of surging the well with a bailer, followed by removal of groundwater and suspended sediments using a bailer or submersible pump. Surging

and bailing of each well were repeated until well depth measurements indicated that significant sediment deposits were not present in the well casing and the groundwater removed appeared to be relatively free of suspended sediment, or until a volume of water equal to ten times the original water column volume had been removed. During development, Leidos field personnel noted that groundwater recharge back to the wells was typically low enough that the wells could be dewatered by manual bailing methods.

#### **4. ADDITIONAL SRI PHASE 4 ACTIVITIES TO BE COMPLETED**

Additional work proposed by the SRI Phase 4 Work Plan, but which has not been completed to date includes maintenance, repair, and surveying of the new and existing monitoring well network at the Site. These tasks are expected to be completed by Arcadis, on behalf of Chevron, following Chevron's planned transition of the consultant role for the project from Leidos to Arcadis in July 2019.

#### **5. CONCLUSIONS**

Results of the SRI Phase 4 field activities were beneficial in significantly furthering our understanding of the Conceptual Site Model (CSM) for the Site. The investigation methodologies utilized included: geophysical investigation, a relatively large number and high density of soil borings, collection of continuous 5-foot soil core samples with detailed vertical field delineation, and laboratory analysis of a large number of soil samples. The combination of these methodologies have resulted in a data set that provides much greater clarity on petroleum source areas that have likely contributed to petroleum impacts to soil and groundwater in the vicinity of the Chelan Chevron service station property, as well as the lateral and vertical distribution of those impacts.

In the vicinity of monitoring well MW-21, which has long been suspected as a likely source area for petroleum impacts at the Site, the presence of at least four previously undocumented USTs has been confirmed. Results of shallow soil borings in the vicinity of these USTs do not indicate that significant petroleum impacts are currently present in soils near the bottom of the tank basin. However, soils encountered at this depth were very coarse, and likely highly permeable; therefore, any past releases to these soils would likely have migrated readily through this coarse interval until encountering the deeper clayey silt interval that underlies most of the Site. Previous soil sampling results from borings for monitoring well MW-21, LIFB-3, and SCB-3, which were completed in this vicinity, indicate that highly elevated concentrations of GRO and BTEX were detected in the uppermost silt layer encountered in these borings. Liquid determined to be present in one of the USTs contained lead at a concentration of 347 µg/l, which exceeds the MTCA Method A cleanup level for lead of 15 µg/l in groundwater. Although the contents of this UST have been analyzed, the condition and contents of the other three USTs in this area is a data gap that must be addressed to understand the potential of these tanks to be on-going or future sources for the release of petroleum products to soil and groundwater at the Site.

The installation of monitoring wells MW-40 through MW-43 have provided additional soil data, and will provide future groundwater monitoring data, to better understand the eastern and western extents of the Site. The installation of monitoring well MW-40 will help to close a critical data gap regarding the extent of the shallow perched-aquifer at the Site. Early groundwater level gauging data from this well is consistent with data from monitoring wells

MW-38 and MW-39, which indicate that the shallow-perched aquifer does not intersect Lake Chelan to the southwest of the Site. Soil sampling data from monitoring wells MW-42 and MW-43, specifically the results of the shallow samples collected at 9 and 10.5 feet bgs, suggest that the adjacent operating service stations to the east of the Site may also be contributors to the petroleum impacts that have historically been attributed to past releases from the Chelan Chevron service station property. Additional investigation of these potential petroleum contamination sources may be warranted.

Collectively, the LNAPL delineation investigation borings advanced in the area near monitoring well MW-10, and the source area investigation near monitoring well MW-17, provide new insight and create several new questions regarding our understanding of the source of petroleum impacts and LNAPL along the 200 block of East Woodin Avenue. Although not conclusive at this time, the current data set collected by these activities suggests that the undocumented USTs suspected in the parking area of the property at 221 East Woodin Avenue may be the primary source of petroleum impacts and LNAPL that have historically been detected along this block of Woodin Avenue. Laboratory results for soil samples collected from borings for wells MW-44 and RW-1 indicate that these locations contained the highest GRO concentrations in soil ever detected at the Site (20,000 and 23,000 mg/kg, respectively). Furthermore, significant petroleum impacts were detected in the boring for monitoring well MW-44 at a depth of only 14.5 feet bgs (and field indicators at 13.75 feet bgs), which is shallower than petroleum impacts have typically been encountered on or closer to the Chelan Chevron service station property. Also, based on groundwater monitoring and LNAPL gauging activities conducted by Gettler-Ryan in June 2019, LNAPL is currently present in monitoring wells MW-44, MW-10, MW-9, and RW-2. LNAPL has not been detected in new wells RW-3 or MW-46, which are on and adjacent to the Chelan Chevron service station property.

Similar to the USTs that were confirmed to be present beneath the sidewalk/planter south of 141 East Woodin Avenue, additional investigation will be necessary to confirm the presence of USTs on the property at 221 East Woodin Avenue and evaluate their potential as an on-going or future petroleum source. Additional investigation will also be necessary to delineate the vertical extent of BTEX compounds and naphthalenes in this area, which were confirmed by these investigation activities to be present above MTCA Method A cleanup levels at depths of up to 49.5 feet bgs. Previously in 2016, benzene was confirmed to be present in soil at 6.3 mg/kg at a depth of 74.5 feet bgs in soil boring SCB-1.

## 5. REFERENCES

- Leidos (2015). “Supplemental Remedial Investigation Report – Phase 1, Chevron Service Station No. 9-6590.” December 14.
- Leidos (2016). “Summary of February 2016 Tier 2 Vapor Intrusion Assessment Sampling Event, Chevron Service Station No. 9-6590.” June 6.
- Leidos (2017). “Agency Review Draft Supplemental Remedial Investigation Report – Phase 2.” May 31.
- Leidos (2018). “Final Supplemental Remedial Investigation Work Plan – Phase 4, Chevron Service Station No. 9-6590.” October 22.
- SAIC (2006). “Final Remedial Investigation / Feasibility Study Report, Chevron Service Station No. 9-6590.” December 2006.

## **LIMITATIONS**

This technical document was prepared on behalf of Chevron and is intended for its sole use and for use by the local, state, or federal regulatory agency that the technical document was sent to by Leidos. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and Leidos shall have no responsibility or liability for the consequences thereof.

Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from Chevron and others. Leidos has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

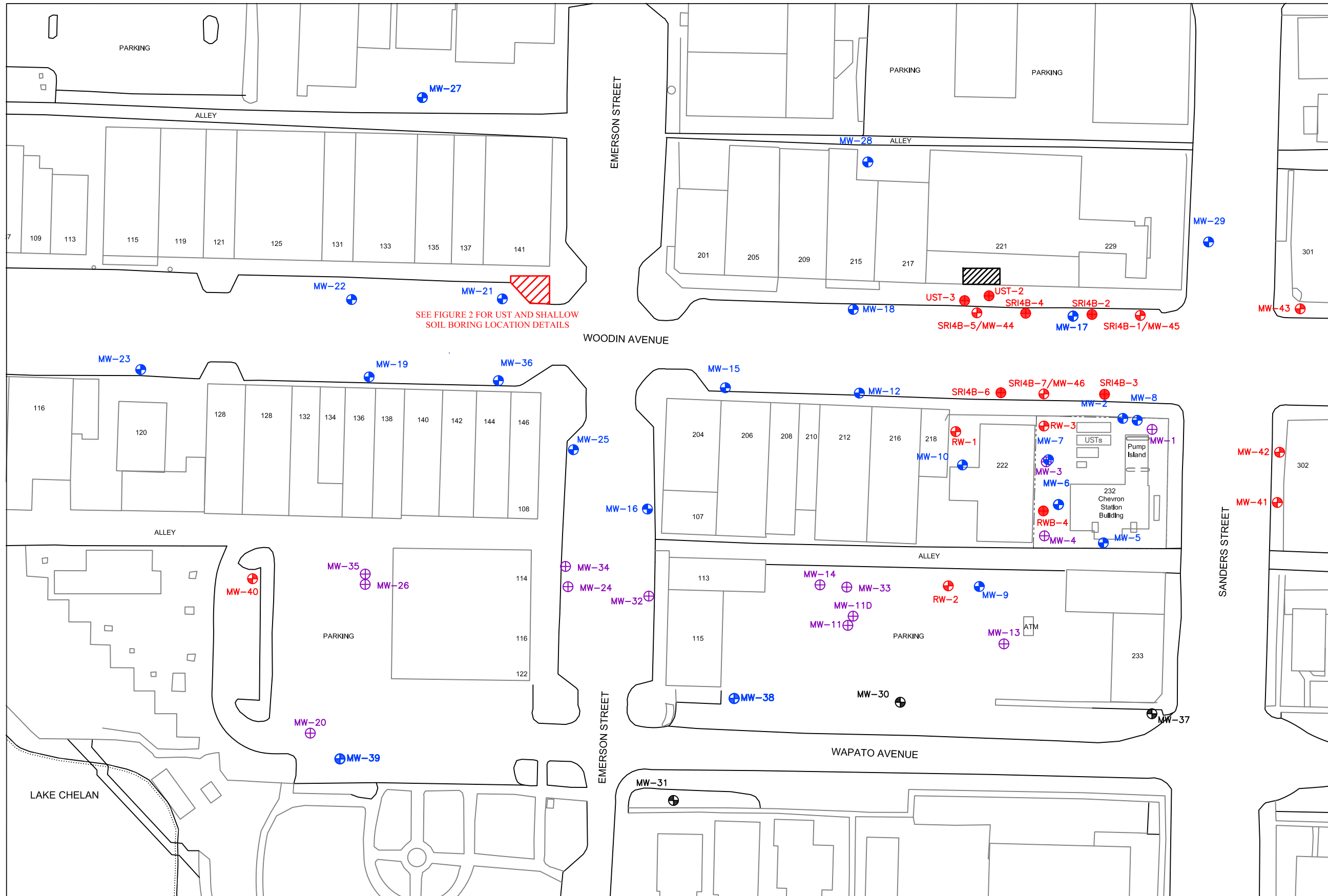
Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of Leidos site visits or site work and cannot be applied to conditions and features of which Leidos is unaware and has not had the opportunity to evaluate.

All sources of information on which Leidos has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied on by Leidos in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.

## Figures

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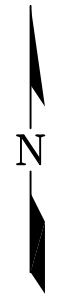
- LEGEND**
- MW-2 EXISTING PERCHED GROUNDWATER MONITORING OR RECOVERY WELL
  - MW-30 EXISTING DEEP GROUNDWATER MONITORING WELL
  - MW-1 EXISTING ABANDONED DRY MONITORING WELL
  - MW-44 SRI 4 SOIL BORING/MONITORING WELL LOCATION
  - SRI4B-2 SRI 4 SOIL BORING LOCATION
  - APPROXIMATE AREA OF SOIL BORING INVESTIGATION AT UNDOCUMENTED UST BASIN
  - APPROXIMATE AREA OF SUSPECTED UST BASIN (SEE GEOPHYSICAL SURVEY SUMMARY REPORT FOR ADDITIONAL LOCATION DETAILS)

**NOTES**

Base Map from City of Chelan, 1994

Additional Reference Material:  
Aerial Photograph from September 1991  
(Washington State Department of Natural Resources)

0 80' 160'



Chevron Service Station No. 96590  
232 East Woodin Avenue  
Chelan, Washington

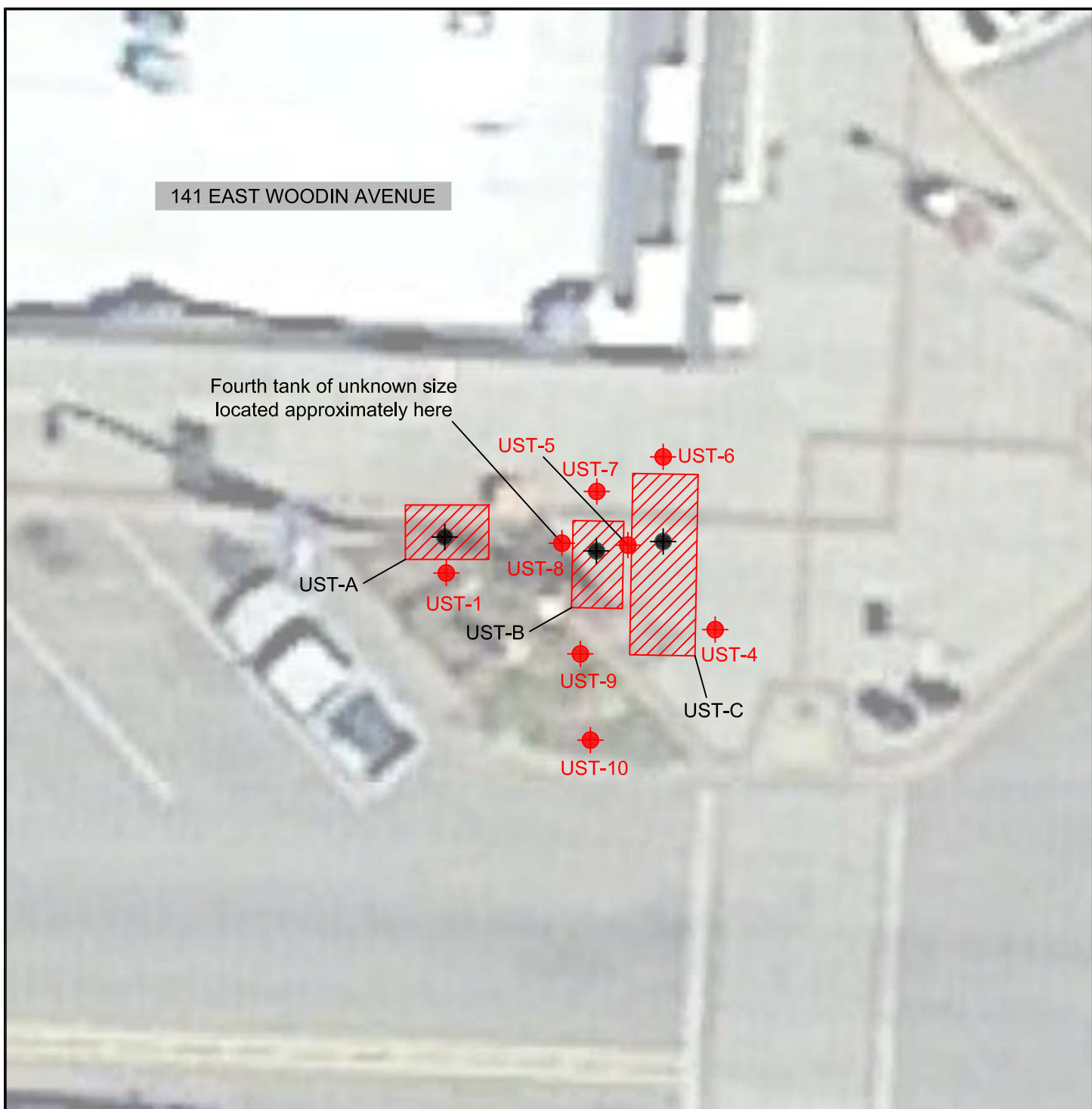
**FIGURE 1**  
**SITE MAP WITH SRI PHASE 4**  
**INVESTIGATION LOCATIONS**

FILE NAME: 96590\_Site Map\_2019.dwg DATE: 6/28/2019




141 EAST WOODIN AVENUE

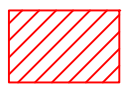
Fourth tank of unknown size located approximately here

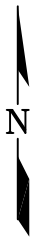
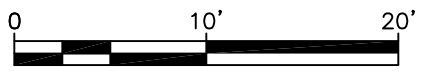


**LEGEND**

 UST CONFIRMATION BORING LOCATION

**UST-1**  SHALLOW SOIL BORING LOCATION

 APPROXIMATE OUTLINE OF CONFIRMED UST AS DELINEATED BY GROUND PENETRATING RADAR



Chevron Service Station No. 96590  
232 East Woodin Avenue  
Chelan, Washington

**FIGURE 2**  
UST AND SOIL BORING  
LOCATIONS NEAR MW-21

FILE NAME:  
96590\_SRI4.dwg

DATE:  
6/28/2019

## **Tables**

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**Table 1**  
**Summary of SRI Phase 4 Soil Sampling Results**

Chelan Chevron  
232 East Woodin Avenue  
Chelan, Washington

Laboratory Analyte			GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	1,2 - Dibromoethane	1,2 - Dichloroethane	1-Methyl- naphthalene	2-Methyl- naphthalene	Naphthalene	Lead	Moisture	
MTCA Method A Cleanup Level			30	2,000	2,000	0.03	7	6	9	0.1	0.005	---	5 (Total Sum of All Naphthalenes)			250	---	
Sample Identification	Sample Depth	Date	Results Reported in mg/kg															%
<b>Shallow Soil Borings from Undocumented UST Basin near 141 East Woodin Avenue</b>																		
UST-1-S-7-102518 <sup>A</sup>	7	10/25/2018	0.4	< 5.0	13	0.001	0.001	< 0.0005	< 0.001	< 0.0007	< 0.0005	< 0.0008	< 0.004	< 0.013	< 0.008	8.42	21.1	
UST-4-S-7.5-181107	7.5	11/7/2018	< 0.3	< 4.2	< 11	< 0.0005	0.001	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.004	< 0.011	< 0.007	4.50	6.4	
UST-5-S-8-181108	8	11/8/2018	< 0.3	< 4.3	11	0.0008	0.002	< 0.0004	< 0.001	< 0.0006	< 0.0004	< 0.0007	< 0.004	< 0.011	< 0.007	9.60	7.6	
UST-6-S-8-181108	8	11/8/2018	< 0.3	< 4.1	< 10	0.001	0.002	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.003	< 0.010	< 0.007	3.67	4.7	
UST-7-S-8-181108	8	11/8/2018	2.7	< 4.8	< 12	0.023	0.018	< 0.0005	0.004	< 0.0006	< 0.0005	0.002	< 0.004	< 0.012	< 0.008	62.0	17.3	
UST-9-S-7.5-181112	7.5	11/12/2018	< 0.4	< 4.8	< 12	< 0.0007	0.0009	< 0.0006	< 0.001	< 0.0007	< 0.0006	< 0.0009	0.008	0.012	< 0.008	17.3	17.1	
<b>Shallow Soil Borings from Suspected UST Basin at 221 East Woodin Avenue</b>																		
UST-2-S-8-181106	8	11/6/2018	< 0.3	< 4.5	< 11	< 0.0006	< 0.0007	< 0.0005	< 0.001	< 0.0006	< 0.0005	< 0.0007	< 0.004	< 0.011	< 0.008	1.84	13.1	
UST-3-S-8-181106	8	11/6/2018	< 0.4	12	53	< 0.0006	0.0008	< 0.0005	< 0.001	< 0.0006	< 0.0005	< 0.0007	< 0.004	< 0.011	< 0.008	3.89	13.9	
<b>MW-40</b>																		
MW-40-8-102618	8	10/26/2018	< 0.2	< 4.1	13	< 0.0005	0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	0.037	0.033	< 0.007	5.07	2.8	
MW-40-S-33-181102	33	11/2/2018	0.5	< 5.9	< 15	< 0.0006	< 0.0007	< 0.0005	< 0.001	< 0.0006	< 0.0005	< 0.0007	< 0.005	< 0.015	< 0.01	11.9	32.2	
MW-40-S-44-181102	44	11/2/2018	0.3	< 4.1	< 10	< 0.0004	< 0.0005	< 0.0003	< 0.0009	< 0.0004	< 0.0003	< 0.0005	< 0.003	< 0.010	< 0.007	2.05	3.5	
<b>MW-41</b>																		
MW-41-S-10-181105	10	11/5/2018	5.8	45	23	< 0.0005	0.0009	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.004	< 0.011	0.007	3.65	8.1	
MW-41-S-15-181105	15	11/5/2018	< 0.3	< 4.6	< 12	< 0.0005	< 0.0007	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0007	< 0.004	< 0.012	< 0.008	2.42	14.7	
MW-41-S-25-181105	25	11/5/2018	0.3	< 4.3	< 11	< 0.0005	< 0.0006	< 0.0004	< 0.0009	< 0.0005	< 0.0004	< 0.0006	< 0.004	< 0.011	< 0.007	1.65	6.6	
MW-41-S-34-181105	34	11/5/2018	< 0.3	< 5.2	< 13	< 0.0005	< 0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.004	< 0.013	< 0.009	2.71	23.9	
<b>MW-42</b>																		
MW-42-S-9-181103	9	11/3/2018	<b>87</b>	510	930	< 0.0005	0.001	0.0006	0.007	< 0.0005	< 0.0004	< 0.0006	0.52	0.68	0.13	3.63	8.3	
MW-42-S-18.5-181103	18.5	11/3/2018	0.3	< 4.0	< 10	< 0.0005	< 0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.003	< 0.010	< 0.007	3.54	2.0	
MW-42-S-24-181103	24	11/3/2018	0.3	< 5.0	< 12	< 0.0005	< 0.0006	< 0.0004	< 0.0009	< 0.0005	< 0.0004	< 0.0006	< 0.004	< 0.012	0.011	7.22	20.6	
MW-42-S-34-181103	34	11/3/2018	0.5	< 5.7	< 14	< 0.0005	< 0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.005	< 0.014	0.038	8.66	29.5	
<b>MW-43</b>																		
MW-43-S-8-181104	8	11/4/2018	< 1.1	< 8.3	< 21	< 0.002	< 0.002	< 0.001	< 0.003	< 0.002	< 0.001	< 0.002	< 0.007	< 0.021	0.021	3.91	52.0	
MW-43-S-10.5-181106	10.5	11/6/2018	<b>88</b>	140	370	< 0.0005	< 0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	0.069	0.083	0.012	7.25	13.1	
MW-43-S-16-181106	16	11/6/2018	0.7	21	28	< 0.0005	0.0008	< 0.0004	0.002	< 0.0005	< 0.0004	< 0.0006	0.018	0.023	< 0.007	4.70	7.4	
MW-43-S-20-181106	20	11/6/2018	< 0.3	16	< 12	< 0.0005	0.0008	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.004	< 0.012	< 0.008	5.59	16.9	
MW-43-S-32-181106	32	11/6/2018	< 0.3	17	< 14	< 0.0006	< 0.0007	< 0.0005	< 0.001	< 0.0006	< 0.0005	< 0.0007	< 0.005	< 0.014	< 0.009	7.10	29.2	
<b>RWB-1</b>																		
RWB-1-S-10.5-181110	10.5	11/10/2018	< 0.2	< 4.2	16	0.001	0.001	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0007	0.012	0.014	< 0.007	5.85	5.7	
RWB-1-S-14.5-181110	14.5	11/10/2018	< 2.1	20	19	< 0.0004	< 0.0005	< 0.0004	< 0.0009	< 0.0004	< 0.0004	< 0.0005	< 0.003	< 0.010	< 0.007	3.76	3.1	
RWB-1-S-17.5-181110	17.5	11/10/2018	<b>1,800</b>	180	< 13	<b>&lt; 0.074</b>	< 0.089	< 0.059	2.1	< 0.074	<b>&lt; 0.059</b>	< 0.089	0.081	0.15	< 0.009	11.0	25.5	
RWB-1-S-23-181110	23	11/10/2018	11	< 5.6	< 14	<b>0.47 E</b>	0.12	0.22	0.38	< 0.0007	< 0.0005	0.001	0.024	0.050	0.058	10.7	28.4	
RWB-1-S-33-181110	33	11/10/2018	<b>23,000</b>	78	15	<b>2.7</b>	<b>24</b>	<b>95</b>	<b>460</b>	<b>&lt; 0.41</b>	<b>&lt; 0.33</b>	< 0.49	<b>6.4</b>	<b>15</b>	<b>19</b>	9.79	29.7	
RWB-1-S-44-181110	44	11/10/2018	<b>40</b>	< 5.2	< 13	<b>4.6</b>	2.6	1.3	8.1	< 0.038	<b>&lt; 0.030</b>	< 0.045	0.022	0.049	0.14	8.71	23.7	
RWB-1-S-49.5-181110	49.5	11/10/2018	<b>57</b>	< 5.5	< 14	<b>4.4</b>	<b>9.2</b>	1.3	<b>10</b>	< 0.041	<b>&lt; 0.033</b>	0.087	0.005	< 0.014	0.15	8.43	28.0	
DUP-2-181108	49.5	11/10/2018	<b>83</b>	< 5.4	< 14	<b>6.2</b>	<b>11</b>	1.5	<b>12</b>	< 0.040	<b>&lt; 0.032</b>	0.11	0.006	< 0.014	0.18	9.57	27.1	
<b>RWB-2</b>																		
RWB-2-S-8-181105	8	11/5/2018	0.3	< 4.1	< 10	< 0.0005	< 0.0006	< 0.0004	< 0.0009	< 0.0005	< 0.0004	< 0.0006	< 0.003	< 0.010	< 0.007	2.49	2.5	
RWB-2-S-15-181109	15	11/9/2018	0.5	10	48	0.002	0.0009	< 0.0003	< 0.0009	< 0.0004	< 0.0003	< 0.0005	< 0.003	< 0.010	< 0.007	9.33	4.8	
RWB-2-S-27.5-181109	27.5	11/9/2018	<b>340</b>	20	< 14	<b>&lt; 0.041</b>	< 0.049	0.84	<b>60 E</b>	< 0.041	<b>&lt; 0.033</b>	< 0.049	0.62	1.4	0.70	7.8	28.7	
RWB-2-S-37-181109	37	11/9/2018	22	< 5.5	< 14	<b>0.20</b>	< 0.046	0.044	3.3	< 0.039	<b>&lt; 0.031</b>	< 0.046	0.037	0.082	0.20	10.3	27.2	
RWB-2-S-48-181109	48	11/9/2018	29	< 5.8	< 15	<b>5.4</b>	2.2	0.88	6.0	< 0.042	<b>&lt; 0.033</b>	0.26	< 0.005	< 0.014	0.028	8.88	31.7	

**Table 1**  
**Summary of SRI Phase 4 Soil Sampling Results**

Chelan Chevron  
232 East Woodin Avenue  
Chelan, Washington

Laboratory Analyte			GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	1,2 - Dibromoethane	1,2 - Dichloroethane	1-Methyl- naphthalene	2-Methyl- naphthalene	Naphthalene	Lead	Moisture	
MTCA Method A Cleanup Level			30	2,000	2,000	0.03	7	6	9	0.1	0.005	---	5 (Total Sum of All Naphthalenes)			250	---	
Sample Identification	Sample Depth	Date	Results Reported in mg/kg															%
<b>RWB-3</b>																		
RWB-3-S-8-181105	8	11/5/2018	< 0.4	< 4.7	< 12	0.0008	< 0.0007	< 0.0005	< 0.001	< 0.0006	< 0.0005	< 0.0007	< 0.004	< 0.012	< 0.008	1.87	14.9	
RWB-3-S-15-181107	15	11/7/2018	0.4	23	10	< 0.0005	0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.003	< 0.010	< 0.007	3.16	2.6	
RWB-3-S-20-181107	20	11/7/2018	44	18	14	< 0.028	< 0.034	< 0.022	< 0.056	< 0.028	< 0.022	< 0.034	0.012	0.020	< 0.008	9.12	14.6	
DUP-1-181107	20	11/7/2018	5.6	7.8	< 12	0.0006	0.001	0.0007	0.003	< 0.0005	0.0005	< 0.0006	0.066	0.12	0.024	7.85	15.5	
RWB-3-S-26-181107	26	11/7/2018	4.7	8.1	< 14	0.002	0.003	0.024	0.22	< 0.0006	< 0.0005	< 0.0007	0.009	< 0.014	0.026	9.47	26.8	
RWB-3-S-32-181107	32	11/7/2018	150	< 5.7	< 14	< 0.042	< 0.051	0.27	0.50	< 0.042	< 0.051	0.006	< 0.014	0.01	9.71	29.8		
RWB-3-S-45-181107	45	11/7/2018	19	< 6.9	< 17	0.43	< 0.065	0.24	0.66	< 0.054	< 0.065	< 0.006	< 0.017	0.048	13.4	42.8		
RWB-3-S-49.5-181107	49.5	11/7/2018	9.2	< 5.6	< 14	1.4	0.17	0.035	0.34	< 0.0006	< 0.0005	< 0.0007	< 0.005	< 0.014	0.19	9.03	28.3	
<b>RWB-4</b>																		
RWB-4-S-8-181105	8	11/5/2018	< 0.2	6.8	51	< 0.0005	< 0.0006	< 0.0004	< 0.0009	< 0.0005	< 0.0004	< 0.0006	< 0.003	< 0.010	< 0.007	2.56	5.2	
RWB-4-S-14.5-181108	14.5	11/8/2018	< 2.6	9.5	18	< 0.0005	< 0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	0.005	< 0.010	< 0.007	4.06	2.3	
RWB-4-S-21-181108	21	11/8/2018	240	5.6	< 13	< 0.034	< 0.040	< 0.027	< 0.067	< 0.034	< 0.040	0.011	0.034	< 0.009	12.7	23.7		
RWB-4-S-25-181108	25	11/8/2018	64	6.7	< 13	0.001	0.002	0.17	0.043	< 0.0006	< 0.0005	< 0.0007	0.026	0.050	0.061	8.85	26.7	
RWB-4-S-30-181108	30	11/8/2018	740	31	< 14	< 0.039	< 0.047	< 0.031	< 0.078	< 0.039	< 0.047	0.012	0.10	< 0.009	11.3	29.2		
RWB-4-S-47-181108 <sup>b</sup>	47	11/8/2018	230	< 5.7	< 14	1.1	1.0	6.7	91 E	< 0.041	< 0.033	< 0.049	0.11	0.24	8.2	8.38	29.8	
<b>SRI4B-1/MW-45</b>																		
SRI4B-1-S-9-181114	9	11/14/2018	< 0.2	< 4.3	< 11	< 0.0005	< 0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.004	< 0.011	< 0.007	1.40	6.0	
SRI4B-1-S-14.5-181114	14.5	11/14/2018	0.3	< 4.2	< 10	< 0.0005	0.001	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.003	< 0.010	< 0.007	1.28	4.7	
SRI4B-1-S-19.5-181114	19.5	11/14/2018	34	13	14	0.001	0.003	0.040	0.25	< 0.0004	< 0.0004	< 0.0005	0.045	0.092	0.072	1.85	8.3	
SRI4B-1-S-32.5-181115	32.5	11/15/2018	810	29	< 14	< 0.038	< 0.046	< 0.030	< 0.076	< 0.038	< 0.046	0.048	0.12	< 0.009	3.67	27.8		
SRI4B-1-S-33.5-181115	33.5	11/15/2018	4.4	< 5.4	< 13	< 0.0006	< 0.0007	< 0.0005	< 0.001	< 0.0006	< 0.0005	< 0.0007	0.005	< 0.014	< 0.009	5.03	26.8	
SRI4B-1-S-39.5-181115	39.5	11/15/2018	1.3	< 5.3	< 13	< 0.0006	0.0008	< 0.0005	< 0.001	< 0.0006	< 0.0005	< 0.0007	0.006	< 0.013	< 0.009	8.82	25.8	
<b>SRI4B-2</b>																		
SRI4B-2-S-9-181115	9	11/15/2018	0.5	5.6	130	< 0.0007	0.001	< 0.0005	< 0.001	< 0.0007	< 0.0005	< 0.0008	< 0.004	< 0.012	< 0.008	4.20	16.0	
SRI4B-2-S-15-181115	15	11/15/2018	13	15	26	0.0005	0.0009	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.004	< 0.011	< 0.007	3.88	11.0	
SRI4B-2-S-19-181115	19	11/15/2018	1,600	53	< 13	0.12	21	39	230	< 0.067	< 0.053	< 0.080	2.0	4.2	6.1	8.83	22.2	
SRI4B-2-S-23-181115	23	11/15/2018	3.2	< 5.5	< 14	0.003	0.006	0.025	0.016	< 0.0006	< 0.0005	< 0.0008	0.013	0.030	0.041	8.98	27.1	
SRI4B-2-S-31.5-181116	31.5	11/16/2018	810	< 5.6	< 14	< 0.042	< 0.050	0.075	0.014	< 0.042	< 0.050	0.059	0.021	< 0.009	8.75	29.8		
SRI4B-2-S-33-181116	33	11/16/2018	6.1	< 5.5	< 14	0.012	0.005	0.005	0.005	< 0.0006	< 0.0005	< 0.0007	0.008	0.015	< 0.009	9.28	28.3	
SRI4B-2-S-44.5-181116	44.5	11/16/2018	3.7	< 5.5	< 14	0.0007	0.003	0.002	0.013	< 0.0006	< 0.0005	< 0.0007	0.006	< 0.014	0.11	9.21	28.2	
<b>SRI4B-3</b>																		
SRI4B-3-S-9-181116	9	11/16/2018	< 0.2	< 4.1	< 10	< 0.0005	< 0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.003	< 0.010	< 0.007	3.16	3.1	
SRI4B-3-S-14.5-181116	14.5	11/16/2018	< 0.3	< 4.5	< 11	< 0.0005	< 0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.004	< 0.011	0.098	5.07	11.6	
SRI4B-3-S-22.5-181116	22.5	11/16/2018	5,000	110	< 13	< 0.69	< 0.83	< 0.55	2.8	< 0.69	< 0.55	< 0.83	1.4	2.9	0.57	8.61	23.4	
SRI4B-3-S-26-181116	26	11/16/2018	0.5	< 5.9	< 15	0.0008	< 0.0008	< 0.0006	< 0.001	< 0.0007	< 0.0006	< 0.0008	< 0.005	< 0.015	< 0.01	10.2	32.4	
SRI4B-3-S-31-181116	31	11/16/2018	1,700	< 5.5	15	< 0.040	< 0.048	< 0.032	< 0.081	< 0.040	< 0.048	< 0.005	< 0.014	< 0.009	8.27	27.6		
SRI4B-3-S-34-181116	34	11/16/2018	1.2	< 5.3	< 13	< 0.0006	0.0008	< 0.0005	< 0.001	< 0.0006	< 0.0005	< 0.0007	0.005	< 0.013	< 0.009	8.83	26.1	
SRI4B-3-S-39.5-181116	39.5	11/16/2018	1.9	< 5.4	< 14	0.006	0.002	0.0006	0.007	< 0.0007	< 0.0005	< 0.0008	0.032	0.025	0.064	9.61	26.3	
<b>SRI4B-4</b>																		
SRI4B-4-S-9-181114	9	11/14/2018	< 0.2	< 4.1	< 10	< 0.0005	0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.003	< 0.010	< 0.007	3.26	2.3	
SRI4B-4-S-14-181114	14	11/14/2018	0.3	< 4.1	< 10	< 0.0005	0.0009	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.003	< 0.010	< 0.007	3.98	2.6	
SRI4B-4-S-16-181114	16	11/14/2018	750	71	< 13	< 0.072	0.24	1.4	4.8	< 0.072	< 0.058	< 0.086	0.30	0.68	0.69	10.1	24.8	
SRI4B-4-S-25-181114	25	11/14/2018	59	< 5.6	< 14	0.009	0.005	0.057	0.007	< 0.0007	< 0.0005	< 0.0008	0.02	0.060	0.047	10.9	28.7	
DUP-3-SD-181114	25	11/14/2018	140	< 5.7	< 14	< 0.41	< 0.49	0.053	< 0.081	< 0.41	< 0.032	< 0.049	0.03	0.130	0.10	14.8	30.2	
SRI4B-4-S-30.5-181114	30.5	11/14/2018	13,000	310	< 14	< 0.42	< 0.50	42	190	< 0.42	< 0.33	< 0.50	3.9	10	16	5.80	27.2	
SRI4B-4-S-44.5-181114	44.5	11/14/2018	7.6	< 5.6	< 14	0.018	0.018	0.085	0.11	< 0.0007	< 0.0005	< 0.0008	0.026	0.052	0.20	5.07	28.9	

**Table 1  
Summary of SRI Phase 4 Soil Sampling Results**

Chelan Chevron  
232 East Woodin Avenue  
Chelan, Washington

Laboratory Analyte			GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	1,2 - Dibromoethane	1,2 - Dichloroethane	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Lead	Moisture	
MTCA Method A Cleanup Level			30	2,000	2,000	0.03	7	6	9	0.1	0.005	---	5 (Total Sum of All Naphthalenes)			250	---	
Sample Identification	Sample Depth	Date	Results Reported in mg/kg															%
<b>SRI4B-5/MW-44</b>																		
SRI4B-5-S-9-181113	9	11/13/2018	0.7	9.1	< 10	0.0008	0.001	< 0.0004	< 0.0009	< 0.0004	< 0.0004	< 0.0005	0.017	0.021	0.011	1.88	4.6	
SRI4B-5-S-12-181113	12	11/13/2018	0.4	< 4.0	< 10	0.0005	0.002	< 0.0004	0.002	< 0.0005	< 0.0004	< 0.0006	< 0.003	< 0.010	< 0.007	1.09	2.6	
SRI4B-5-S-14.5-181113	14.5	11/13/2018	<b>15,000</b>	880	43	<b>8.9</b>	<b>170</b>	<b>150</b>	<b>960</b>	< 0.18	<b>&lt; 0.14</b>	< 0.21	<b>13</b>	<b>35</b>	<b>39</b>	30.4	23.4	
SRI4B-5-S-16.5-181113	16.5	11/13/2018	<b>20,000</b>	460	< 13	<b>9.5</b>	<b>140</b>	<b>66</b>	<b>400</b>	< 0.40	<b>&lt; 0.32</b>	< 0.48	<b>18</b>	<b>47</b>	<b>70</b>	34.0	25.5	
SRI4B-5-S-21-181113	21	11/13/2018	<b>6,400</b>	250	< 12	<b>2.9</b>	<b>53</b>	<b>46</b>	<b>290</b>	< 0.24	<b>&lt; 0.19</b>	< 0.29	<b>2.2</b>	<b>5.8</b>	<b>6.4</b>	17.4	13.9	
SRI4B-5-S-29-181113	29	11/13/2018	<b>45</b>	< 5.5	< 14	<b>1.5</b>	5.0	0.96	4.9	< 0.042	<b>&lt; 0.033</b>	< 0.050	0.052	0.10	0.10	5.89	28.5	
SRI4B-5-S-40-181113	40	11/13/2018	<b>98</b>	< 5.5	< 14	<b>1.9</b>	3.6	0.96	6.4	< 0.037	<b>&lt; 0.030</b>	< 0.045	0.046	0.12	0.22	16.5	27.3	
SRI4B-5-S-49.5-181113	49.5	11/13/2018	<b>45</b>	< 5.4	< 14	<b>2.7</b>	5.8	0.93	6.3	< 0.040	<b>&lt; 0.032</b>	< 0.048	0.01	< 0.013	0.20	14.6	26.4	
<b>SRI4B-6</b>																		
SRI4B-6-S-9-181112	9	11/12/2018	<b>270</b>	210	1,100	< 0.024	< 0.029	< 0.020	0.083	< 0.024	<b>&lt; 0.020</b>	< 0.029	0.38	0.43	0.074	3.26	7.3	
SRI4B-6-S-14.5-181112	14.5	11/12/2018	< 5.3	72	330	0.0009	0.0008	0.001	0.01	< 0.0005	< 0.0004	< 0.0006	0.084	0.10	0.018	2.66	7.4	
SRI4B-6-S-18-181112	18	11/12/2018	<b>11</b>	< 4.6	< 11	0.005	0.011	0.0009	0.16	< 0.0004	< 0.0003	< 0.0005	0.005	< 0.011	0.012	3.58	13.3	
SRI4B-6-S-20-181112	20	11/12/2018	<b>780</b>	28	< 15	<b>&lt; 0.044</b>	< 0.053	3.8	6.5	< 0.044	<b>&lt; 0.035</b>	< 0.053	0.21	0.46	0.25	16.8	33.9	
SRI4B-6-S-35-181112	35	11/12/2018	29	< 5.3	< 13	<b>0.61</b>	0.082	0.91	1.7	< 0.035	<b>&lt; 0.028</b>	< 0.042	0.043	0.11	0.25	5.54	25.5	
SRI4B-6-S-49.5-181112	49.5	11/12/2018	24	< 5.4	< 14	<b>0.58</b>	0.25	0.13	3.3	< 0.039	<b>&lt; 0.031</b>	< 0.047	0.006	< 0.013	0.21	6.83	26.4	
<b>SRI4B-7</b>																		
SRI4B-7-S-8.5-181112	8.5	11/12/2018	< 0.3	< 4.2	28	< 0.0005	< 0.0006	< 0.0004	< 0.001	< 0.0005	< 0.0004	< 0.0006	< 0.004	< 0.011	< 0.007	1.32	6.1	
SRI4B-7-S-14.5-181117	14.5	11/17/2018	< 0.2	< 4.1	< 10	< 0.0004	< 0.0005	< 0.0004	< 0.0009	< 0.0004	< 0.0004	< 0.0005	< 0.003	< 0.010	< 0.007	3.14	2.5	
SRI4B-7-S-20-181117	20	11/17/2018	<b>350</b>	20	< 12	<b>0.037</b>	< 0.038	1.7	2.5	< 0.032	<b>&lt; 0.026</b>	< 0.038	0.30	0.95	0.69	6.31	19.9	
SRI4B-7-S-23-181117	23	11/17/2018	13	< 5.5	< 14	<b>0.14</b>	0.019	0.71	0.77	< 0.0007	< 0.0006	< 0.0008	0.015	0.055	0.067	10.2	28.2	
DUP-4-S-181117	23	11/17/2018	13	< 5.5	< 14	<b>0.16</b>	0.017	0.82	0.59	< 0.0006	< 0.0005	< 0.0008	0.017	0.060	0.084	7.32	27.0	
SRI4B-7-S-30-181117	30	11/17/2018	<b>180</b>	8.1	< 14	<b>0.50</b>	0.067	<b>20</b>	<b>79</b>	< 0.036	<b>&lt; 0.029</b>	< 0.043	<b>0.95</b>	<b>2.0</b>	<b>3.0</b>	9.16	26.3	
SRI4B-7-S-37-181117	37	11/17/2018	4.9	< 5.4	< 13	<b>0.083</b>	0.003	0.036	0.043	< 0.0006	< 0.0005	0.0009	0.035	0.065	0.20	9.60	25.5	
SRI4B-7-S-44.5-181117	44.5	11/17/2018	6.8	< 5.4	< 13	<b>0.11</b>	0.006	0.003	0.082	< 0.0006	< 0.0005	0.002	0.019	< 0.013	0.19	8.04	25.9	
DUP-5-SD-181117	44.5	11/17/2018	7.3	< 5.6	< 14	<b>0.099</b>	0.006	0.003	0.070	< 0.0006	< 0.0005	0.002	0.020	< 0.014	0.21	9.54	28.6	

**Legend:**

- 87** - Bold and highlighted entries indicate results exceeding MTCA Method A cleanup levels
- < 0.074** - Bold red text indicates that detection limit was greater than MTCA Method A cleanup level due to necessary sample dilution by the laboratory
- E** - "E" data qualifier indicates that analytical result was estimated by the laboratory because the result exceeded the calibration range of the instrument

**Footnotes:**

- A - Sample was erroneously labeled as UST-1-5-7-102518 in the laboratory analysis report for Group Number 2003517.
- B - Sample was analyzed for full-scan of volatile organic compounds by SW-846 8260C. For full analytical results, see laboratory analysis report for Group Number 2008697.

**Appendix A:  
Boring Logs**

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# Monitoring Well: MW-40

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: AS RO

Date Started: 10/26/2018  
 Date Completed: 11/2/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 45 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 44 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 19-44 ft  
 Filter Pack: 12/20 Silica Sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
moist						GM		0	asphalt (3 inches)	
moist	0.0					GM		1	(GM) brown, sandy GRAVEL with some silt and some large cobbles	
moist	0.0					SM		2	(SM) brown, silty SAND with some gravel, no odor, no sheen	
moist	0.0					SM		3		
moist	0.0					SM		4	SAA, no odor, no sheen large cobble encountered at 5 feet (<10 inches)	
moist	0.0					SM		5		
moist	0.0					SM		6	no sample due to a large rock	
moist	0.0					SM		7		
moist	0.0					SW		8	(SW) brown SAND with trace silt, large cobbles, no odor, no sheen	
dry	1.5					SW		9		
						ML		10	(ML) brown, sandy SILT (80-85%), no odor, no sheen	
								11		

MW-40-8

G < 0.2  
 D < 4.1  
 B < 0.0005









# Monitoring Well: MW-40

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: AS RO

Date Started: 10/26/2018  
 Date Completed: 11/2/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 45 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 44 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 19-44 ft  
 Filter Pack: 12/20 Silica Sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
moist	13.3			MW-40-33	G = 0.5 D = 5.9 B = 0.0006	ML		34	(ML) gray, clayey SILT, laminated, 15-20% low to medium plasticity clay, no odor, no sheen <i>(continued)</i> SAA, no odor, no sheen	
								34	no recovery	
						SP		35	(SP) SAA, 3 inches of fine SAND lens, no odor, no sheen	
moist	6.5							36		
moist	1.8					ML		38	(ML) SAA, firm, clayey SILT, some lamination, no odor, no sheen	
moist	4.0							40	olive-gray, fine SILT with 10% fine sand	
moist	6.2							42	some lenses of fine SAND (1 inch or less)	
						SW-SM		44		



# Monitoring Well: MW-40

Project: Chevron Service Station No. 96590    Date Started: 10/26/2018    Total Boring Depth: 45 ft    Well Diameter: 2 in  
 Client: Chevron EMC    Date Completed: 11/2/2018    Hole Diameter: 4-6 in    Well Screen: 0.010 slot; 19-44 ft  
 Location: 232 E. Woodin Ave, Chelan, WA    Driller: AEC    Well Depth: 44 ft    Filter Pack: 12/20 Silica Sand  
 Logged By: AS RO    Drill Method: Air Knife / Sonic    TOC Elevation: ft    Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
dry	5.5			MW-40-44	G = 0.3 D < 4.1 B < 0.0004	SW-SM		45	(SW-SM) light gray, well graded, gravelly SAND, rounded gravel, cobbles, 80% fine to coarse sand, 10% silt, no odor, no sheen ( <i>continued</i> )	- 12/20 Silica Sand
								45	Bottom of borehole at 45.0 feet.	
								46		
								47		
								48		
								49		
								50		
								51		
								52		
								53		
								54		
								55		



# Monitoring Well: MW-41

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/1/2018  
 Date Completed: 11/3/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 35 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 35 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 15-35 ft  
 Filter Pack: 12/20 Silica Sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
									concrete (4 inches) in sidewalk	
dry	5.9					SM		1		Well Box
								2	(SM) dark brown, silty, very fine SAND, loose, no odor, no sheen	Sch 40 PVC Riser Concrete Seal
dry	7.3							3		
								4	medium yellow-brown, silty, very fine to fine SAND with trace granule pebble, loose, no odor, no sheen	
dry	8.1							5		
								6	medium brown, silty, very fine to fine SAND with minor (10%) granule pebble up to 4-5 mm, loose, no odor, no sheen	
dry	8.1					SW-SM		7		
								8	(SW-SM) medium yellow-brown, very fine to very coarse SAND with some gravel (25%) up to 2 inches, minor fragments (10%) of silt, loose, no odor, no sheen	
	12.8							9	SAA, no odor, no sheen	Bentonite
dry to damp	14.1							10	(SM) light brown, silty SAND, 15% silt, 85% medium to fine sand, no odor, no sheen	
								11		

MW-41-10

G = 5.8  
 D = 45  
 B < 0.0005

Ecology Tag ID  
 BLN714







# Monitoring Well: MW-41

Project: Chevron Service Station No. 96590    Date Started: 11/1/2018    Total Boring Depth: 35 ft    Well Diameter: 2 in  
 Client: Chevron EMC    Date Completed: 11/3/2018    Hole Diameter: 4-6 in    Well Screen: 0.010 slot; 15-35 ft  
 Location: 232 E. Woodin Ave, Chelan, WA    Driller: AEC    Well Depth: 35 ft    Filter Pack: 12/20 Silica Sand  
 Logged By: RO TD    Drill Method: Air Knife / Sonic    TOC Elevation: ft    Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	6.6			MW-41-34	G < 0.3 D < 5.2 B < 0.0005	ML		34	(ML) olive-gray, clayey SILT, 10% clay, little to no sand or gravel, 90% silt, no odor, no sheen <i>(continued)</i> SAA, no odor, no sheen	
								35	Bottom of borehole at 35.0 feet.	
								36		
								37		
								38		
								39		
								40		
								41		
								42		
								43		
								44		



# Monitoring Well: MW-42

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/2/2018  
 Date Completed: 11/3/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 35 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 35 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot, 15-35 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
									concrete (4 inches) in sidewalk	
dry	4.5					SM		1		Well Box
								2	(SM) medium brown, silty, very fine SAND, loose, no odor, no sheen	Sch 40 PVC Riser Concrete Seal
dry	10.3							3		
								4	medium brown to yellow-brown, very fine to fine SAND with some silt (25%) and 10% fine pebble, loose, no odor, no sheen	
dry	10.5							5		
								6	medium brown, very fine to coarse SAND with 20% pebble/granule (up to 1 cm) and 20% silt, loose, no odor, no sheen	
								7		
moist	8.5					SW		8	(SW) medium brown-gray, fine to very coarse SAND with trace silt and 10% fine pebble/granule (up to 1 cm), loose	Ecology Tag ID BLN713
moist	12.1				G = 87 D = 510 HO = 930 B < 0.0005			9	SAA, no odor, no sheen	
dry	11.3							10	brown, fine to coarse SAND, <5% silt, <5% gravel, no odor, no sheen	Hydrated Bentonite
								11		





# Monitoring Well: MW-42

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/2/2018  
 Date Completed: 11/3/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 35 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 35 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot, 15-35 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
moist	10.2							12	SAA except more oxidized (orange in color)	
moist	10.1					SW		13	(SW) orange-brown, coarse to fine SAND, no odor, no sheen	
moist								14	(SW-SM) light brown, coarse to fine SAND, 5-10% silt, no odor, no sheen	
moist						SW-SM		15	SAA, no odor, no sheen	
damp	7.8							16	SAA, no odor, no sheen	
dry	8.5							17		
								18	light brown, coarse to very fine SAND, dense, no odor, no sheen	
moist						ML		19	(ML) brown SILT, <5% sand, no odor, no sheen	
moist	10.6					SW-SM		20	(SW-SM) brown, coarse to very fine SAND, 10% silt, no odor, no sheen	
								21		
								22		

MW-42-18.5

G = 0.3  
 D < 4.0  
 HO < 10  
 B < 0.0005

12/20 Silica Sand





# Monitoring Well: MW-42

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/2/2018  
 Date Completed: 11/3/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 35 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 35 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot, 15-35 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet									(ML) olive-gray, stiff SILT, no lamination, no odor, no sheen ( <i>continued</i> )	
wet	9.2			MW-42-34	G = 0.5 D < 5.7 HO < 14 B < 0.0005	ML		34 SAA, no odor, no sheen		
								35	Bottom of borehole at 35.0 feet.	
								36		
								37		
								38		
								39		
								40		
								41		
								42		
								43		
								44		



# Monitoring Well: MW-43

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/4/2018  
 Date Completed: 11/6/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 35 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 35 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 15-35 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
									concrete (4 inches) in sidewalk	
dry	10.2					SP-SM		1		Well Box
								2	(SP-SM) dark brown, very fine to medium SAND with 10-15% silt and 5% fine gravel/pebble up to 2 cm, loose, no odor, no sheen	Sch 40 PVC Riser Concrete Seal
dry	12.7					SW		3		Ecology Tag ID BLN715
								4	(SW) dark yellow-brown, very fine to coarse SAND with 10% fine gravel up to 1.5 inches, loose, no odor, no sheen	
dry	12.1					SW-SM		5		
								6	(SW-SM) medium brown, gravelly SAND with minor silt (10%), sand very fine to very coarse, gravel up to 1 cm, loose, no odor, no sheen	
dry	14.2				G < 1.1 D < 8.3 HO < 21 B < 0.002	GP		7		Hydrated Bentonite
								8	(GP) medium yellow-brown, sandy GRAVEL with trace silt, sand very fine to very coarse, gravel up to 2 cm, medium dense, no odor, no sheen.  Note: different PID used below 8 ft	
	3.1					SM		9	(SM) brown, well graded, silty SAND, 5-10% gravel, 75% coarse to fine sand, 15% silt, no odor, slight sheen	
dry	1.6				G = 88 D = 140 HO = 370	SP		10	SAA, no odor, slight sheen	
								11		







# Monitoring Well: MW-43

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/4/2018  
 Date Completed: 11/6/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 35 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 35 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 15-35 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	0.7					ML		34	(ML) SAA, no odor, no sheen <i>(continued)</i>  SAA, no odor, no sheen	
								35	Bottom of borehole at 35.0 feet.	
								36		
								37		
								38		
								39		
								40		
								41		
								42		
								43		
								44		



# Monitoring Well: MW-44 (SRI4B-5)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/10/2018  
 Date Completed: 11/13/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 39 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 14-39 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
									asphalt (4.5 inches) on side of Woodin Ave	
damp	11.1					ML		1		<p>Well Box Sch 40 PVC Riser Concrete Seal</p>
								2	(ML) medium dark brown SILT with trace very fine sand, soft, no odor, no sheen	
damp								3		
								4	light brown SILT with minor very fine sand, soft to firm, no odor, slight sheen	
damp	13.0					SP-SM		5		
								6	(SP-SM) medium yellow-brown SAND with minor (8%) silt, sand very fine to medium, fine gravel up to 5 mm (8%), medium dense, no odor, slight sheen	<p>Hydrated Bentonite</p>
								7		
								8	Note: different PID used below 8 ft	
damp	14.7					SM		8	medium brown SAND with minor (10%) silt, sand very fine to fine with gravel up to 1.75 inches (15%), medium dense, no odor, medium sheen	
								9	(SM) at 8.5 ft cobbles with silty SAND	
damp	0.3							9	orange-brown, silty SAND, 20-30% silt, 5-10% gravel, 60% fine to coarse sand, no odor, no sheen	
								10		
damp	0.2					SW-SM		10	(SW-SM) light brown SAND with minor silt (10%), sand fine to coarse, globular organic sheen	
								11		

SRI4B-5-9  
 G = 0.7  
 D = 9.1  
 HO < 10  
 B = 0.0008





# Monitoring Well: MW-44 (SRI4B-5)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/10/2018  
 Date Completed: 11/13/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 39 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 14-39 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
damp	0.2			SRI4B-5-12	G = 0.4 D < 4.0 HO < 10 B = 0.0005	SW-SM		11.5	(SW-SM) light brown SAND with minor silt (10%), sand fine to coarse, globular organic sheen <i>(continued)</i>	
wet	6.0					SW		12	(SW) well graded, light brown SAND with <5% gravel, 5% silt, cooking oil odor, globular organic sheen	
								13	SAA, no odor, no sheen	
wet	65.5			SRI4B-5-14.5	G = 15,000 D = 880 HO = 43 B = 8.9	ML		14	(ML) dark gray SILT, strong HC odor, medium sheen	
	1844					ML/CL		15	(ML/CL) dark gray, clayey SILT, HC odor, medium sheen	
	1983					ML		15	(ML) olive-gray SILT with some clay, HC odor, medium sheen	
	1978							16	SAA, HC odor, medium sheen	
wet	>2000			SRI4B-5-16.5	G = 20,000 D = 460 HO < 13 B = 9.5			17	SAA, strong HC odor, heavy sheen	
	1805							17	strong HC odor, medium sheen	
	1999							18	SAA, thin layers of clay (laminated), strong HC odor, medium sheen	
wet	>2000							18	olive-gray SILT, HC odor	
	187							19	SAA, strong HC odor, no sheen	
	164							20	gray-brown, sandy SILT, 25% medium to fine sand, 75% silt, HC odor, no sheen	
	1934							20		
wet	>2000			SRI4B-5-21	G = 6,400 D = 250 HO < 12 B = 2.9	ML		21	(ML) olive-gray SILT, strong HC odor, heavy sheen	
	>2000					ML/CL		22	(ML/CL) gray, clayey SILT, HC odor, medium sheen	





# Monitoring Well: MW-44 (SRI4B-5)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/10/2018  
 Date Completed: 11/13/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 39 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 14-39 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	155								SAA, HC odor, no sheen, with soft sediment deformation	
wet	136							34	SAA, HC odor, no sheen	
	143							35	(ML/CL) olive-gray, clayey SILT / silty CLAY, medium plasticity, HC odor (aromatic), no sheen	
	114					ML/CL				
wet	73.4							36	SAA, HC odor (aromatic), no sheen	
wet	59.7							37	SAA, soft, HC odor (aromatic), no sheen	
	70.7							38	SAA, soft, HC odor (aromatic), no sheen	
wet	68.2							39		
	69.3					ML			(ML) olive-gray SILT, coarser silt, some clay, HC odor (aromatic), no sheen	
	95.3				G = 98 D < 5.5 HO < 14 B = 1.9	ML/CL		40	(ML/CL) olive-gray, clayey SILT / silty CLAY, HC odor, no sheen	
	140								SAA, HC odor, no sheen	
wet	104							41		
	146					ML/CL		42	(ML/CL) At 41.5 feet, 1-inch thick CLAY layer, medium soft	
									olive-gray, clayey SILT / silty CLAY, medium plasticity, faint HC odor, no sheen	
wet	77.5							43		
								44	at 43.5 feet, 1-inch vertical seam of CLAY 1 inch, faint HC odor, no sheen	

SRI4B-5-40



# Monitoring Well: MW-44 (SRI4B-5)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/10/2018  
 Date Completed: 11/13/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 39 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 14-39 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	137					ML/CL		43.5	at 43.5 feet, 1-inch vertical seam of CLAY 1 inch, faint HC odor, no sheen <i>(continued)</i>	
	91.1					ML/CL		44.5	(ML/CL) at 44.5 feet, 0.5-inch thick clay layer	
wet	96.9					ML/CL		45	(ML/CL) olive-gray, clayey SILT, HC odor, no sheen	
	190					ML		46	(ML) gray SILT lens, 10% fine sand, HC odor, no sheen	
	36.9					ML		47	(ML) gray SILT lens, 10% fine sand, HC odor, no sheen	
	117					ML/CL		47	(ML/CL) olive-gray, clayey SILT / silty CLAY, thin laminated layers of clay, HC odor (aromatic), no sheen	
wet	89.0					ML/CL		48	olive-gray, clayey SILT / silty CLAY, deformed layers of silt and clay	
wet	96.7					ML/CL		49	olive-gray, clayey SILT, HC odor, no sheen	
	125							50	Bottom of borehole at 50.0 feet.	
	81.0							51		
								52		
								53		
								54		
								55		

SRI4B-5-49.5

G = 45  
 D < 5.4  
 HO < 14  
 B = 2.7



# Monitoring Well: MW-45 (SRI4B-1)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/9/2018  
 Date Completed: 11/14/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 40 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 38 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 18-38 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
									asphalt (10 inches) on side of Woodin Ave	
damp	6.7					ML		1		Well Box
								2	(ML) dark brown SILT with trace (2%) fine gravel up to 5 mm, soft to firm, no odor, slight sheen	Sch 40 PVC Riser Concrete Seal
damp to moist	8.5							3		Ecology Tag ID BYN720
								4	medium dark brown SILT, firm, no odor, slight sheen	
								5		
damp	8.4							6	(SM) medium brown, silty, very fine SAND with 4-5% fine gravel up to 4 mm, loose, no odor, no sheen	
						SM		7		
damp	10.8							8	medium brown, very fine SAND with some silt (15-20%) and 20% fine gravel up to 6 mm, medium dense, no odor, no sheen SAA, no odor, no sheen	
damp	0.7				G < 0.2 D < 4.3 HO < 11 B < 0.0005			9	(SP) orangish-brown, medium SAND, little to no fines, well sorted, no odor, no sheen	Hydrated Bentonite
						SP		10		
damp	0.9							11	(SM) light brown, silty SAND, 15-20% silt, no odor, no sheen	
						SM				



# Monitoring Well: MW-45 (SRI4B-1)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/9/2018  
 Date Completed: 11/14/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 40 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 38 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 18-38 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
damp						SM		11.5 - 12.0	(SM) light brown, silty SAND, 15-20% silt, no odor, no sheen (continued)	
damp	1.3					ML		12.0 - 13.0	(ML) light brown SILT, no odor, no sheen	
damp						ML		13.0 - 13.5		
	1.3					SM		13.5 - 14.5	(SM) light brown, silty SAND, no odor, no sheen	
						SM		14.5 - 15.0		
	1.9				G = 0.3 D < 4.2 HO < 10 B < 0.0005	SP		15.0 - 16.5	(SP) brown, medium SAND, little to no fines	
						SP		16.5 - 17.0		
damp	1.1					SP		17.0 - 18.0	brown, silty SAND / sandy SILT, 50% silt, 50% medium to fine sand, no odor, no sheen	
						SP		18.0 - 18.5	SAA, no odor, no sheen	
						ML		18.5 - 19.0		
damp	28.7					ML		19.0 - 20.0	(ML) light brown-gray, sandy SILT, faint HC odor, slight sheen	
moist to wet	48.5				G = 34 D = 13 HO = 14 B = 0.001	SM		20.0 - 21.0	(SM) brown, silty SAND / sandy SILT, 50% sand, 50% silt, no odor, no sheen	
	5.2					SM		21.0 - 21.5		
	23.7					ML		21.5 - 22.0	(ML) olive-gray, sandy SILT, faint HC odor, slight sheen	



# Monitoring Well: MW-45 (SRI4B-1)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/9/2018  
 Date Completed: 11/14/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 40 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 38 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 18-38 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	32.5								olive-gray SILT with clay, no odor, no sheen	
	29.2									
wet	1.8							23	SAA, no odor, no sheen	
wet	1.3							24	SAA, no odor, no sheen	
	1.0							25	(ML/CL) olive-gray, clayey SILT with thin clay layers (1 cm)	
wet	3.2					ML/CL		26		
	0.8							27		
	0.5							28	SAA, no odor, no sheen	
wet	0.7							29	SAA, soft, no odor, no sheen	
wet	0.7							30	SAA, no odor, no sheen	
	1.1							31	SAA, no odor, no sheen	
	1.3							32		
wet	0.6							33	(ML) gray, sandy SILT, coarser silt (1-inch thick), HC odor, medium sheen	
	1532			SRI4B-1-32.5	G = 810 D = 29 HO < 14	ML ML/CL				



# Monitoring Well: MW-45 (SRI4B-1)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/9/2018  
 Date Completed: 11/14/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 40 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 38 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 18-38 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	9.0				B < 0.038				(ML/CL) olive-gray, clayey SILT ( <i>continued</i> )	
	3.6			SRI4B-1-33.5	G = 4.4 D < 5.4 HO < 13 B < 0.0006	ML/CL		34	(ML) olive-gray SILT, no odor, no sheen	
wet	4.5					ML		35	(ML/CL) olive-gray, clayey SILT, no odor, no sheen	
	2.7									
wet	5.1					ML/CL		36		
	3.6									
wet	1.9							37	SAA, no odor, no sheen	
	1.5							38	At 37.5 feet, 3-inch layer of CLAY, soft, medium plasticity, no odor, no sheen (ML/CL) olive-gray, clayey SILT, no odor, no sheen	
wet	1.6			SRI4B-1-39.5	G = 1.3 D < 5.3 HO < 13 B < 0.0006	ML/CL		39	olive-gray, clayey SILT / silty CLAY, no odor, no sheen	
	5.8							40	Bottom of borehole at 40.0 feet.	
	2.0							41		
								42		
								43		
								44		





# Monitoring Well: MW-46 (SRI4B-7)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: MBG RO

Date Started: 11/12/2018  
 Date Completed: 11/17/2018  
 Driller: AEC  
 Drill Method: Air Knive / Sonic

Total Boring Depth: 45 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 38 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 18-38 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
								0	asphalt (10 inches) on side of Woodin Ave.	
damp	7.5					ML		1		
								2	(ML) dark brown SILT with trace very fine sand (5%), soft, trace organic material (<2%), very fine gravel, no odor, slight sheen	
damp	8.0							3		
								4	light brown SILT, soft, no odor, no sheen	
								5		
damp	6.5							6	(SW) light brown, fine to coarse SAND, no odor, no sheen	
						SW		7		
								8		
damp	8.2				G < 0.3 D < 4.2 HO = 28 B < 0.0005			9	light brown, fine to coarse SAND, 2% fine gravel, no odor, slight sheen	
						SM		9	(SM) light brown, silty SAND, 30% silt, 1% gravel, 69% coarse to fine sand, no odor, no sheen	
damp	1.0							10	(SW) light brown, well graded SAND, 5% silt, 10% gravel, 4 inch cobble, no odor, no sheen	
						SW		10		
damp	0.9							11	(SP) orangish-brown SAND, poorly graded, <5% silt, <5% gravel, no odor, no sheen	
						SP		11		

SRI4B-7-8.5

Hydrated Bentonite



# Monitoring Well: MW-46 (SRI4B-7)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: MBG RO

Date Started: 11/12/2018  
 Date Completed: 11/17/2018  
 Driller: AEC  
 Drill Method: Air Knive / Sonic

Total Boring Depth: 45 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 38 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 18-38 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
damp	0.7					SP		11.5	(SP) orangish-brown SAND, poorly graded, <5% silt, <5% gravel, no odor, no sheen (continued) SAA	
								12.0	SAA	
dry								13.0	(SW-SM) light brown, silty SAND, 10-15% silt, 10% gravel, 75% coarse to fine sand, no odor, no sheen	
dry	1.0					SW-SM		14.0	SAA	
					G < 0.2 D < 4.1 HO < 10 B < 0.0004			15.0	(SP) light brown, poorly graded SAND, little to no fines, 5% gravel, no odor, no sheen	
	0.6			SRI4B-7-14.5		SP		16.0		
								17.0	(SM) light brown, silty SAND, 15-20% silt, 5% gravel, 75% sand, no odor, no sheen	
moist	0.9					SM		18.0	SAA, HC odor, no sheen	
wet	1.0							19.0	(ML) olive-gray, sandy SILT, 5% sand, 5% gravel, 90% silt, HC odor, no sheen	
	1.7							20.0	olive-gray, sandy SILT, strong HC odor, medium sheen	
wet	37.3					ML		21.0	(ML/CL) olive-gray, clayey SILT, 5% sand, HC odor, no sheen	
	66.5							22.0		
wet	110							23.0		
	1100			SRI4B-7-20	G = 350 D = 20 HO < 12 B = 0.037			24.0		
wet	286							25.0		
	44.3					ML/CL		26.0		

12/20 Silica Sand



# Monitoring Well: MW-46 (SRI4B-7)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: MBG RO

Date Started: 11/12/2018  
 Date Completed: 11/17/2018  
 Driller: AEC  
 Drill Method: Air Knive / Sonic

Total Boring Depth: 45 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 38 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 18-38 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	20.5					SM			(SM) olive-gray, sandy SILT, 20% sand, HC odor, no sheen	
wet	9.2			SRI4B-7-23	G = 13 D < 5.5 HO < 14 B = 0.14	ML/CL		23	(ML/CL) olive-gray, clayey SILT, no sand, slight HC odor, no sheen	
								24	SAA	
wet	16.0							25	olive-gray, clayey SILT, slight HC odor, no sheen	
wet	15.1							26	SAA, thin laminated layers of clay, 1-cm thick	
								27	olive-gray, clayey SILT, slight HC odor, no sheen	
								28	SAA	
wet	15.9							29	SAA, no odor, no sheen	
								30	(ML) olive-gray SILT, strong HC odor, medium sheen	
wet	18.2			SRI4B-7-30	G = 180 D = 8.1 HO < 14 B = 0.50	ML		31	(ML/CL) olive-gray, clayey SILT, HC odor, no sheen	
								32	SAA	
wet	15.8					ML/CL		33		



# Monitoring Well: MW-46 (SRI4B-7)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: MBG RO

Date Started: 11/12/2018  
 Date Completed: 11/17/2018  
 Driller: AEC  
 Drill Method: Air Knive / Sonic

Total Boring Depth: 45 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 38 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 18-38 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	47.8					ML/CL			(ML/CL) olive-gray, clayey SILT, HC odor, no sheen <i>(continued)</i> SAA	
wet	29.4					ML/CL		34	olive-gray, clayey SILT, HC odor, no sheen	
wet	7.5 7.0					ML		35	(ML) gray SILT, strong HC odor, no sheen	
						ML/CL		35	(ML/CL) olive-gray, clayey SILT, slight HC odor, no sheen	
								36	SAA, thicker layers of clay (1 to 2 inches thick)	
wet	8.2				G = 4.9 D < 5.4 HO < 13 B = 0.083			37	SAA, no odor, no sheen	
wet	13.0							38	SAA, no odor, no sheen	
wet	7.2							39	SAA, soft, no odor, no sheen	
	14.1 13.6					ML/CL		40	(ML/CL) SAA	
wet	10.0							41	SAA	
wet	5.5							42	SAA	
wet	11.6							43	SAA	Collapsed formation, no backfill
								44		



# Monitoring Well: MW-46 (SRI4B-7)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: MBG RO

Date Started: 11/12/2018  
 Date Completed: 11/17/2018  
 Driller: AEC  
 Drill Method: Air Knive / Sonic

Total Boring Depth: 45 ft  
 Hole Diameter: 4-6 in  
 Well Depth: 38 ft  
 TOC Elevation: ft

Well Diameter: 2 in  
 Well Screen: 0.010 slot; 18-38 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	5.4 4.8 9.7			SRI4B-7-44.5	G = 6.8 D < 5.4 HO < 13 B = 0.11	ML/CL		45	SAA  (ML/CL) SAA	
								45	Bottom of borehole at 45.0 feet.	
								46		
								47		
								48		
								49		
								50		
								51		
								52		
								53		
								54		
								55		



# Monitoring Well: RW-1 (RWB-1)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/3/2018  
 Date Completed: 11/10/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 50 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 30-50 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
									asphalt (3 inches) in bank drive-through	
moist	5.4					ML		1		Well Box
								2	(ML) medium dark brown SILT, mostly very coarse silt with minor very fine sand (5-8%), trace granule pebble, soft, no odor, no sheen	Concrete Seal Sch 40 PVC Riser
wet	9.0							3		
								4	medium brown SILT with minor clay (slight plasticity), trace fine pebble up to 5 mm, soft to firm, no odor, no sheen	
damp	9.6					SW-SM		5		
								6	(SW-SM) medium brown, very fine to very coarse SAND with minor silt (10%) and some cobbles/gravel (20%), loose, no odor, no sheen	
damp	8.5					GW-GM		7		
								8	(GW-GM) medium brown GRAVEL and COBBLE with some sand, cobbles/boulders up to >15 inches, sand very fine to very coarse with minor silt lens, dense, no odor, no sheen	
								9	no recovery due to large cobble	
damp to wet	0.4					SW-SM		10	(SW-SM) light brown, well graded, gravelly SAND, 10% silt, 15-20% gravel, well rounded cobbles up to 4 inches, no odor, no sheen	Ecology Tag ID BLN718
								11		

RWB-1-10.5

G < 0.2  
 D < 4.2  
 HO = 16



# Monitoring Well: RW-1 (RWB-1)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/3/2018  
 Date Completed: 11/10/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 50 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 30-50 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
dry	1.6				B = 0.001	SW-SM		12	(SW-SM) light brown, well graded, gravelly SAND, 10% silt, 15-20% gravel, well rounded cobbles up to 4 inches, no odor, no sheen (continued)	Hydrated Bentonite
								13	(SM) light gray, gravelly SAND with silt (15-20%), 25% gravel, 55% coarse to fine, well graded sand	
dry	0.9				G < 2.1 D = 20 HO = 19 B < 0.0004	SM		14	light brown, gravelly SAND, less silt (5%), no odor, no sheen	
								15	light gray, silty GRAVEL with sand, 20% silt, 50% gravel, 30% coarse to fine sand, no odor, no sheen	
								16	SAA, no odor, no sheen	
								17	(ML) light brown SILT, no odor, no sheen	
wet	>2000				G = 1,800 D = 180 HO < 13 B < 0.074	ML/CL		18	(ML/CL) greenish-gray, clayey SILT, strong HC odor, slight sheen	
wet	135.9					ML		18	(ML) light brown SILT, no odor, no sheen	
								19	no recovery	
wet	59.0					ML/CL		20	(ML/CL) olive-gray, clayey SILT, <1% sand, 5% gravel, HC odor, no sheen	
wet	45.5							21	At 20.5 feet, thin layer of olive-gray CLAY, <1-inch thick olive-gray, clayey SILT, HC odor, no sheen	



# Monitoring Well: RW-1 (RWB-1)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/3/2018  
 Date Completed: 11/10/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 50 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 30-50 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	45.3								SAA, HC odor, no sheen	
wet	120.5			RWB-1-23	G = 11 D < 5.6 HO < 14 B = 0.47 E			23	olive-gray, clayey SILT, HC odor, no sheen	
wet	34							24	SAA, HC odor, no sheen	
wet	48.4							25	olive-gray, clayey SILT, soft, mottled/swirled thin layers of silt and clay, HC odor, no sheen	
wet	45.7					ML/CL		26	(ML/CL) SAA, HC odor, no sheen	
wet	10.5							27	SAA, HC odor, no sheen	
wet	15.0							28	SAA, HC odor, no sheen	
wet	22.7							29	SAA, HC odor, no sheen	
wet	22.4							30	SAA, HC odor, no sheen	
								31	olive-gray, clayey SILT, HC odor, no sheen	
wet	19.8							32	olive-gray, clayey SILT, HC odor, no sheen	
	33.4							33		

- 12/20 Silica Sand





# Monitoring Well: RW-1 (RWB-1)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/3/2018  
 Date Completed: 11/10/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 50 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 30-50 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	>2000			RWB-1-33	G = 23,000 D = 78 HO = 15 B = 2.7	ML			(ML) olive-gray SILT, strong HC odor, medium to heavy sheen	
wet	84.4									
wet	236.0					ML/CL		34	(ML/CL) olive-gray, clayey SILT, HC odor, no sheen	
wet	14.5							35	olive-gray, clayey SILT, soft, HC odor, no sheen	
wet	213 145							36	SAA, soft to medium stiff, HC odor (aromatic), no sheen	
wet	193							37	SAA, some mottled / laminated thin layers of CLAY, HC odor (aromatic), no sheen	
wet	128							38	SAA, HC odor (aromatic), no sheen	
wet	282							39	SAA, HC odor (aromatic), no sheen	
wet	250							40	SAA, HC odor (aromatic), no sheen	
wet	107							41	SAA, HC odor (aromatic), no sheen	
wet	187							42	SAA, soft to medium stiff, HC odor (aromatic), no sheen	
wet	157							43	SAA, HC odor (aromatic), no sheen	
wet	181							44	SAA, HC odor (aromatic), no sheen	





# Monitoring Well: RW-2 (RWB-2)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/5/2018  
 Date Completed: 11/9/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 49 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 24-49 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
								0	asphalt (3 inches) in parking lot	
damp	6.1					ML		1		
								2	(ML) medium dark brown SILT with some (20%) gravel up to 2.5 inches, soft to firm, no odor, no sheen	
damp	7.1					SW		4	(SW) medium brown, fine to very coarse SAND with some (25%) gravel/cobble up to 4 inches, loose, no odor, no sheen	
damp	9.5					GW		5	(GW) medium yellow-brown, sandy GRAVEL up to cobble size, sand fine to very coarse, loose to dense, no odor, no sheen	
								7	At 7 feet, boulder approx. 1-foot long	
damp	10.0				G = 0.3 D < 4.1 HO < 10 B < 0.0005			8	medium yellow-brown, sandy GRAVEL up to cobble size, sand fine to very coarse, loose to dense, no odor, no sheen	
								9	Note: different PID used below 8 feet. (SW-SM) yellow-brown, well graded, gravelly SAND, 10% silt, 15-20% gravel, 70% coarse to fine sand, no odor, slight globular organic sheen	
damp	1.0					SW-SM		10	brown, well graded, gravelly SAND, 10% silt, 20% rounded gravel, 70% coarse to fine sand, no odor, slight globular organic sheen	



# Monitoring Well: RW-2 (RWB-2)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/5/2018  
 Date Completed: 11/9/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 49 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 24-49 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
moist										
damp	0.2					GM		12	(GM) light gray, gravelly SILT, dense, 50% silt, 20% gravel, 15-20% coarse to fine sand, no odor, no sheen	
								13	no recovery due to cobble at 12.5 feet	
								14		
damp	0.3				G = 0.5 D = 10 HO = 48 B = 0.002	GM		15	(GM) brown, gravelly SILT, 50% silt, 20% gravel, rounded, up to 4 inches, 15-20% coarse to fine sand, no odor, slight sheen	
moist	0.3							16		
								17	olive-gray, gravelly SILT, no odor, no sheen	
moist	0.4					ML		18	(ML) olive-gray, clayey SILT, 15% clay, no odor, no sheen	
								19		
wet	4.3							20	olive-gray, clayey SILT, no clay, no odor, no sheen	
								21	olive-gray, clayey SILT, 20% clay, 80% silt, medium stiff	
								21	SAA, no odor, no sheen	
								22	thin, <1 cm clay lenses	



# Monitoring Well: RW-2 (RWB-2)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/5/2018  
 Date Completed: 11/9/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 49 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 24-49 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	1.3								SAA, no odor, no sheen	<p>12/20 Silica Sand</p>
wet	2.3						23	SAA, slight HC odor, no sheen		
wet	2.3						24	SAA, slight HC odor, no sheen		
wet	40.5						25	olive-gray, clayey SILT, soft, no gravel, no sand (<1%), no odor, no sheen		
wet	1.9						26	SAA, slight HC odor, no sheen		
wet	73.2						27	SAA, HC odor, no sheen		
wet	38.9				G = 340 D = 20 HO < 14 B < 0.041		28	SAA, HC odor, no sheen		
wet	1.9						29	SAA, HC odor, no sheen		
wet	13.0						30	SAA, HC/solvent odor, no sheen		
	15.4						31	SAA, HC/solvent odor, no sheen		
wet	12.5						32	SAA, HC/solvent odor, no sheen		
							33			





# Monitoring Well: RW-2 (RWB-2)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/5/2018  
 Date Completed: 11/9/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 49 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 24-49 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	13.7								olive-gray, clayey SILT / silty CLAY, soft, HC odor	
wet	35.7							45	SAA, HC odor (aromatic), no sheen	
	36.8							46	SAA, HC odor (aromatic), no sheen	
saturated	86.1							47	SAA, HC odor (aromatic), no sheen	
	103.5				G = 29 D < 5.8 HO < 15 B = 5.4			48	SAA, coarser silt, HC odor (aromatic), no sheen	
saturated	87.6							49	SAA, HC odor (aromatic), no sheen	Hydrated Bentonite
	47.5							50	Bottom of borehole at 50.0 feet.	
								51		
								52		
								53		
								54		
								55		



# Monitoring Well: RW-3 (RWB-3)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/5/2018  
 Date Completed: 11/7/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 40 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 15-40 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
									asphalt (4 inches) at gas station	
damp	8.6					ML		1		Well Box
								2	(ML) dark brown SILT with trace gravel up to 1 cm, soft, no odor, no sheen	Sch 40 PVC Riser Concrete Seal
damp	8.3							3		Ecology Tag ID BLN716
								4	medium dark brown SILT (coarse silt), soft, no odor, no sheen	
								5		
damp	8.4							6	medium brown SILT with 5% gravel up to 1 inch, soft, no odor, no sheen	
								7		
damp	9.2				G < 0.4 D < 4.7 HO < 12 B = 0.0008	SM		8	(SM) medium yellow-brown, silty, very fine SAND with 5-10% fine gravel up to 1.5 inches, medium dense, no odor, slight sheen	Hydrated Bentonite
								9	Note: different PID used below 8 feet	
dry	0.7					SW		9	(SW) light brown, well graded SAND, <5% silt, 10% gravel, well rounded up to 2 inches	
						SP		10	(SP) light brown, poorly graded, medium SAND, no odor, slight sheen	
dry	0.7					SW-SM		10	(SW-SM) light brown, well graded SAND, 10% silt, 5% gravel, 85% fine to coarse sand, no odor, slight globular organic sheen	
								11		





# Monitoring Well: RW-3 (RWB-3)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/5/2018  
 Date Completed: 11/7/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 40 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 15-40 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
damp									(SW) light brown, well graded SAND, <5% silt, 10% gravel, no odor, slight globular organic sheen	
damp	0.5					SW		12		
damp								13	SAA, no odor, no sheen	
damp	0.7							14	SAA, slight globular organic sheen, no odor	
dry	1.0			RWB-3-15	G = 0.4 D = 23 HO = 10 B < 0.0005	ML		15	(ML) orange-brown SILT, orange mottling, <1% fine sand	
						SW			(SW) light brown, well graded SAND, well rounded, coarse to fine sand, 10% gravel, <5% silt, no odor, no sheen	
damp	1.0					SM		16	(SM) light brown, silty SAND, 20% silt, 5% fine gravel, no odor, no sheen	
	1.0					ML			(ML) orange-brown SILT, no odor, no sheen	
								17	little recovery on hard, sandy, silty gravel with local cobbles	
								18		
								19		
wet	1301			RWB-3-20	G = 44 D = 18 HO = 14 B < 0.028	ML		20	(ML) olive-gray SILT, strong HC odor, slight sheen	
	250							21	olive-gray, clayey SILT, 15-20% clay, 80% silt, no sand, no gravel, strong HC odor, no sheen	
								22		

12/20 Silica Sand



# Monitoring Well: RW-3 (RWB-3)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/5/2018  
 Date Completed: 11/7/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 40 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 15-40 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	98.8					ML		23	(ML) SAA, strong HC odor, no sheen	
								23	SAA, HC odor, no sheen	
wet	89.5							24	SAA, strong HC odor, no sheen	
								25	SAA, HC odor, no sheen	
wet	20.1							26	SAA, HC odor, no sheen	
wet	12.6				G = 4.7 D = 8.1 HO < 14 B = 0.002			26	SAA, HC odor, no sheen	
wet						ML/CL		27	(ML/CL) olive-gray SILT with olive-gray, clayey SILT, thin clay lenses (<1 inch), HC odor, no sheen	
wet	8.2							28	SAA, HC odor, no sheen	
wet	8.2							29	SAA, HC odor, no sheen	
wet	3.2							30	olive-gray, clayey SILT, soft, HC odor, no sheen	
wet	4.7							31	SAA, HC odor, no sheen	
wet	97.4				G = 150 D < 5.7 HO < 14 B < 0.042			32	SAA, strong HC odor, slight sheen	
								33		



# Monitoring Well: RW-3 (RWB-3)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/5/2018  
 Date Completed: 11/7/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 40 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 15-40 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	32.2					ML/CL			(ML/CL) SAA, HC odor, no sheen	
wet	18.0							34	olive-gray, clayey SILT with trace lenses of clay, lenses about 0.25 inches thick, HC odor, no sheen	
wet								35		
	60.1									
wet	22.1							36	SAA, HC odor, no sheen	
wet	24.1							37	SAA, HC odor, no sheen	
wet	20.1							38	SAA, HC odor, no sheen	
wet	17.4							39	SAA, HC odor, no sheen	
wet	5.3							40	SAA, HC odor, no sheen	
wet	8.5							41	SAA, HC odor (aromatic), no sheen	
wet	20.2							42	SAA, HC odor (aromatic), no sheen	
wet	22.3							43	SAA, HC odor (aromatic), no sheen	
								44		



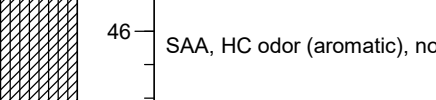

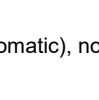
# Monitoring Well: RW-3 (RWB-3)

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA  
 Logged By: RO TD

Date Started: 11/5/2018  
 Date Completed: 11/7/2018  
 Driller: AEC  
 Drill Method: Air Knife / Sonic

Total Boring Depth: 50 ft  
 Hole Diameter: 8 in  
 Well Depth: 40 ft  
 TOC Elevation: ft

Well Diameter: 4 in  
 Well Screen: 0.010 slot; 15-40 ft  
 Filter Pack: 12/20 silica sand  
 Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
wet	22.0								(ML/CL) SAA, HC odor (aromatic), no sheen	
wet	87.2			RWB-3-45	G = 19 D < 6.9 HO < 17 B = 0.43	ML/CL		45	SAA, HC odor (aromatic), no sheen	 - Filled with native material during overdrilling.
wet	33.7						46	SAA, HC odor (aromatic), no sheen		
wet	52.1						47	SAA, HC odor (aromatic), no sheen		
wet	29.7						48	SAA, HC odor (aromatic), no sheen		
wet	8.4			RWB-3-49.5	G = 9.2 D < 5.6 HO < 14 B = 1.4			49	SAA, HC odor (aromatic), no sheen	
								50	Bottom of borehole at 50.0 feet.	
								51		
								52		
								53		
								54		
								55		



# Soil Boring: RWB-4

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: RO TD  
 Date Started: 11/5/2018  
 Date Completed: 11/8/2018

Driller: AEC  
 Drill Method: Air Knife / Sonic  
 Total Boring Depth: 50 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
								asphalt (4 inches) at service station
dry	6.8				ML		1	
							2	(ML) dark brown SILT with 10% gravel (mostly fine up to 2 inches), silt mostly coarse, soft, no odor, slight sheen
damp	10.3						3	
							4	dark brown SILT, no sand or gravel, soft, no odor, no sheen
damp	10.7						5	
							6	medium dark brown SILT with 15% gravel up to 2 inches, soft, no odor, slight sheen
damp	11.3			G < 0.2 D = 6.8 HO = 51 B < 0.0005	SM		7	
							8	(SM) medium brown, gravelly, silty SAND, sand very fine to coarse, gravel up to 4 inches, loose to dense, no odor, slight sheen  Note: different PID used below 8 feet
	0.5						9	brown, silty SAND, 10% gravel, 15% silt, well graded sand, 75% coarse to fine sand, large cobble (>4 inches), no odor, slight sheen
damp	0.6				SW		10	
							11	(SW) yellowish-brown, well graded SAND, 10% gravel, <5% silt, 85% coarse sand, no odor, no sheen













# Soil Boring: SRI4B-2

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: TD RO  
 Date Started: 11/9/2018  
 Date Completed: 11/15/2018

Driller: AEC  
 Drill Method: Air Knife / Sonic  
 Total Boring Depth: 45 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0	asphalt (10 inches) on side of Woodin Ave.
damp	10.6				ML		1	
							2	(ML) medium dark brown SILT, no odor, slight sheen
							3	
moist to wet	12.6						4	light brown SILT with some clay, firm to stiff, no odor, no sheen
							5	
dry	12.5				SP-SM		6	(SP-SM) medium brown, very fine to fine SAND with 5-8% silt and 15% fine gravel up to 7 mm, loose, no odor, no sheen
							7	
							8	SAA, no odor, no sheen
damp	1.8						9	Note: different PID used below 8 feet
							9	yellowish-brown, silty SAND, 20% silt, coarse to fine sand (80%), slight HC odor, slight sheen
							10	
damp	0.9						11	brown, medium to fine SAND, <5% silt, <5% gravel, no odor, slight sheen

G = 0.5  
 D = 5.6  
 HO = 130  
 B < 0.0007

SRI4B-2-9



# Soil Boring: SRI4B-2

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: TD RO  
 Date Started: 11/9/2018  
 Date Completed: 11/15/2018

Driller: AEC  
 Drill Method: Air Knife / Sonic  
 Total Boring Depth: 45 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							12	SAA, no odor, slight sheen
	0.8				SP-SM		12	(SP-SM) SAA, no odor, slight sheen
							13	orangish-brown, medium to fine SAND, <5% silt, <5% gravel, no odor, no sheen
damp	0.8						14	no recovery
moist	1.5		SRMB-2-15	G = 13 D = 15 HO = 26 B = 0.0005	SM		15	(SM) light brown, sandy SILT, 50% silt, 50% sand, no odor, slight sheen
wet	0.9						16	(ML) light brown SILT, no odor, no sheen
wet	1.0				ML		17	light brown, sandy SILT, 10% fine sand, medium dense, no odor, no sheen
wet	1.1						18	gray SILT, HC odor, no sheen
wet	3.0						19	gray SILT, 10% fine sand, strong HC odor, medium sheen
wet	110		SRMB-2-19	G = 1,600 D = 53 HO < 13 B = 0.12			19	
wet	1388						20	gray SILT, HC odor, no sheen
wet	1628						20	
wet	193						21	
wet	165						21	
wet	196						21	
wet	29.3				ML/CL		22	(ML/CL) olive-gray, clayey SILT, slight HC odor, no sheen





# Soil Boring: SRI4B-2

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: TD RO  
 Date Started: 11/9/2018  
 Date Completed: 11/15/2018

Driller: AEC  
 Drill Method: Air Knife / Sonic  
 Total Boring Depth: 45 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
wet	8.6		SR14B-2-33	G = 6.1 D < 5.5 H < 14 B = 0.012				SAA, HC odor, no sheen
wet	18.4				ML		34	(ML) thin layer of coarser SILT, faint HC odor, no sheen
wet wet	7.6 3.7				ML/CL		35	(ML/CL) olive-gray, clayey SILT, faint HC odor, no sheen
							35	thin laminated layers of SILT and CLAY between 35 and 37 feet, 1 cm thick layers
	4.7						36	
wet	4.6						37	olive-gray, clayey SILT, no odor, no sheen
wet	7.7						38	SAA, no odor, no sheen
wet	7.1						39	SAA, slight HC odor (aromatic), no sheen
	14.5						40	
wet	11.1						40	SAA, slight HC odor, no sheen
	18.8						41	
wet	10.4						41	SAA, increasing clay content, no odor, no sheen
wet	42						42	SAA, no odor, no sheen 1-2-inch thick layers of clay laminated between clayey silt
wet	3.5						43	olive-gray, clayey SILT / silty CLAY, no odor, no sheen





# Soil Boring: SRI4B-3

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: RO TD  
 Date Started: 11/9/2018  
 Date Completed: 11/16/2018

Driller: AEC  
 Drill Method: Air Knife / Sonic  
 Total Boring Depth: 40 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
								asphalt (10 inches) on side of Woodin Ave
slightly moist	10.6				ML		1	
							2	(ML) dark brown SILT (mica in silt), soft, no odor, no sheen
slightly moist	13.5						3	
							4	medium dark brown SILT (less mica), firm, no odor, no sheen
slightly moist	14.1				SP-SM		5	
							6	(SP-SM) medium brown, very fine to fine SAND with 5-8% coarse silt and trace (1%) fine gravel up to 5 mm, medium dense, no odor, no sheen
slightly moist	12.5						7	
damp	0.6						8	medium brown, very fine to fine SAND with 5-8% coarse silt, medium dense, no odor, no sheen
							9	Note: different PID used below 8 feet
damp	0.5				SW-SM		10	(SW-SM) medium brown SAND, coarse to fine, 5% silt, 5% gravel, no odor, no sheen
							11	medium brown SAND, coarse to fine, 8% silt, 5% gravel, no odor, no sheen

SRI4B-3-9

G < 0.2  
 D < 4.1  
 HO < 10  
 B < 0.0005







# Soil Boring: SRI4B-3

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: RO TD  
 Date Started: 11/9/2018  
 Date Completed: 11/16/2018

Driller: AEC  
 Drill Method: Air Knife / Sonic  
 Total Boring Depth: 40 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
	1563							SAA, HC odor, slight sheen
wet	1609		SRI4B-3-22.5	G = 5,000 D = 110 HO < 13 B < 0.69	ML		23	(ML) black, sandy SILT, 15% sand, strong HC odor, medium sheen, black color due to soil saturation by dark heavy oil material
wet	1491						24	SAA, HC odor, medium sheen
	811						25	(ML/CL) olive-gray, clayey SILT / silty CLAY, no odor, no sheen
	1591						26	thin laminated layers of clay
wet	9.0		SRI4B-3-26	G = 0.5 D < 5.9 HO < 15 B = 0.0008	ML/CL		27	olive-gray, clayey SILT / silty CLAY
wet	6.1						28	SAA, no odor, no sheen
wet	2.6						29	SAA, no odor, no sheen
wet	5.7						30	(ML/CL) SAA, slight odor, no sheen
wet	3.1						31	(ML) gray, thin (1 cm) sandy SILT, HC odor, medium sheen
	2.1		SRI4B-3-31	G = 1,700 D < 5.5 HO = 15 B < 0.040	ML		32	olive-gray, SILT, slight odor, no sheen
wet	2.9						33	




# Soil Boring: SRI4B-3

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: RO TD  
 Date Started: 11/9/2018  
 Date Completed: 11/16/2018

Driller: AEC  
 Drill Method: Air Knife / Sonic  
 Total Boring Depth: 40 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
	9.0							(ML/CL) SAA, no odor, no sheen
wet	6.0		SRI4B-3-34	G = 1.2 D < 5.3 HO < 13 B < 0.0006	ML/CL		34	olive-gray, clayey SILT / silty CLAY, no odor, no sheen
	4.1							
	7.1						35	SAA, no odor, no sheen
wet	6.2						36	SAA
	4.7						37	SAA
	3.0						38	SAA
wet	4.9		SRI4B-3-39.5	G = 1.9 D < 5.4 HO < 14 B = 0.006			39	SAA
	2.2							
	4.9						40	Bottom of borehole at 40.0 feet.
							41	
							42	
							43	
							44	



# Soil Boring: SRI4B-4

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: TD RO  
 Date Started: 11/10/2018  
 Date Completed: 11/14/2018

Driller: AEC  
 Drill Method: Air Knife / Sonic  
 Total Boring Depth: 45 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
								asphalt (10 inches) on side of Woodin Ave
damp	5.2				ML		1	
							2	(ML) dark brown SILT (with mica), no gravel or sand, soft to firm, no odor, slight sheen
							3	
damp	6.8						4	medium brown SILT (with mica), no sand or gravel, soft to firm, no odor, slight sheen
							5	
damp	8.0				SP-SM		6	(SP-SM) medium brown, very fine to fine SAND with minor (5-8%) silt and 8% fine gravel up to 5 mm, medium dense, no odor, no sheen
							7	
damp	10.2				SW		8	(SW) medium brown, very fine to very coarse SAND with trace (5%) silt, 20% gravel up to 3 inches, medium dense, no odor, slight sheen
							9	(SP) yellowish-orange, very fine to medium SAND, well sorted, 1% gravel, <2% silt, no odor, slight globular organic sheen
damp	0.6			G < 0.2 D < 4.1 HO < 10 B < 0.0005	SP		9	light brown, poorly graded SAND, no odor, globular organic sheen
							10	SAA, no odor, globular organic sheen
damp	0.8						10	

SRI4B-4-9



# Soil Boring: SRI4B-4

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: TD RO  
 Date Started: 11/10/2018  
 Date Completed: 11/14/2018

Driller: AEC  
 Drill Method: Air Knife / Sonic  
 Total Boring Depth: 45 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
damp	0.5				SP		12	yellowish-orange, poorly graded SAND, 5% silt, <5% rounded gravel, no odor, globular organic sheen  (SP) SAA
							13	SAA, no odor, slight, globular organic sheen
damp	0.6		SRI4B-4-14	G = 0.3 D < 4.1 HO < 10 B < 0.0005	SM		14	(SM) light gray-brown, silty SAND, 5% rounded gravel up to 2 inches, no odor, no sheen
	0.6						15	
moist	1.0						16	(ML) dark gray SILT, HC odor, slight to medium sheen
	0.9						17	thin layers of clay <1-inch thick
wet	532		SRI4B-4-16	G = 750 D = 71 HO < 13 B < 0.072	ML		17	SAA, HC odor, slight sheen
	294						18	SAA, HC odor, no sheen
wet	534						19	SAA, HC odor, no sheen
	101						20	(ML/CL) olive-gray, clayey SILT, slight HC odor, no sheen
wet	37				ML/CL		21	SAA, slight HC odor, no sheen
	6.3						22	
	22.6							
wet	12.5							









# Soil Boring: SRI4B-6

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: RO TD  
 Date Started: 11/10/2018  
 Date Completed: 11/12/2018

Driller: AEC  
 Drill Method: Air Knife / Sonic  
 Total Boring Depth: 50 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
								asphalt (10 inches) on side of Woodin Ave
damp	11.7				ML		1	
							2	(ML) medium dark brown SILT with minor (6-8%) very fine to coarse sand and fine gravel, soft, no odor, no sheen
							3	
wet	11.8						4	light brown SILT with minor very fine sand, coarse silt approaching sand size, firm, no odor, no sheen
							5	
damp	13.0				SP-SM		6	(SP-SM) medium brown, very fine to medium SAND with minor silt (5-8%), fine gravel up to 5 mm (3%), loose to medium dense, no odor, no sheen
							7	
							8	(SW) medium gray-brown SAND with some (20%) gravel and cobbles, sand fine to very coarse, medium dense, no odor, no sheen
moist	2.1				SW		9	(SM) brown, silty SAND, 15% gravel, 20% silt, 65% coarse to fine sand, no odor, no sheen
					SM		10	(SW) light brown, well graded SAND, little to no fines, 5% gravel, <1% silt, 94-95% coarse to fine sand, no odor, no sheen
					SW		11	

SRI4B-6-9  
 G = 270  
 D = 210  
 HO = 1,100  
 B < 0.024













# Soil Boring: UST-1

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: AS  
 Date Started: 10/25/2018  
 Date Completed: 10/25/2018

Driller: AEC  
 Drill Method: Air Knife / Hand Auger  
 Total Boring Depth: 7 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0	mulched landscaped surface
moist	0.0				ML		1	(ML) brown, sandy SILT with very fine sand, some small cobbles, no odor, no sheen
moist	0.0				SM		2	(SM) brown, silty SAND with fine to medium silt, some gravel and large cobbles, no odor, no sheen
							3	
							4	brown, silty, coarse to fine SAND, some gravel and large cobbles, no odor, no sheen
							5	
	0.0						6	SAA
	0.0		UST-1-7	G = 0.4 D < 5.0 HO = 13 B = 0.001	GM		7	(GM) large cobbles with coarse silty SAND, no odor, no sheen refusal at 7 feet due to large cobbles
							7	Bottom of borehole at 7.0 feet.
							8	
							9	
							10	



# Soil Boring: UST-2

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: TD  
 Date Started: 11/6/2018  
 Date Completed: 11/6/2018

Driller: AEC  
 Drill Method: Air Knife / Hand Auger  
 Total Boring Depth: 8.5 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0	concrete on sidewalk (5.5 inches)
damp	11.8				ML		1	
							2	(ML) medium dark brown SILT with trace (0.5%) granule pebble, soft, no odor, no sheen
							3	
damp	7.6						4	light brown SILT with 3-5% coarse sand to granule pebble, soft, no odor, no sheen
							5	
damp	10.3				SM		6	(SM) medium brown, silty SAND, sand mostly very fine, but some ranges to medium, with 8% fine pebble up to 5 mm, loose to medium dense, no odor, no sheen
							7	
damp	9.5		UST-2-8	G < 0.3 D < 4.5 HO < 11 B < 0.0006			8	medium brown, very fine to medium SAND with 15% silt and 25% gravel up to 2 inches, medium dense, no odor, no sheen
							9	Bottom of borehole at 8.5 feet.
							10	





# Soil Boring: UST-4

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: TD  
 Date Started: 11/7/2018  
 Date Completed: 11/7/2018

Driller: AEC  
 Drill Method: Air Knife / Hand Auger  
 Total Boring Depth: 8 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0	concrete (3.5 inches) in sidewalk
damp	7.2				SW-SM		1	(SW-SM) medium dark brown SAND with some gravel up to 3 inches, with minor silt (8-10%), sand fine to very coarse, loose, no odor, slight sheen
damp	8.7					2		
							3	SAA, gravel finer up to 1 inch, silt greater (10-12%), no odor, no sheen
						4		
damp	10.2						5	(SW) medium gray-brown gravelly SAND with trace silt (<5%), gravel fine, mostly <5 mm, but up to 1 inch, loose to medium dense, sand mostly fine to very fine, no odor, no sheen
damp	10.9				SW		6	
damp	10.0						7	SAA, gravel coarser up to 3 inches, no odor, no sheen
							8	SAA, no odor, no sheen
							8	Bottom of borehole at 8.0 feet.
							9	
							10	

UST-4-7.5  
 G < 0.3  
 D < 4.2  
 HO < 11  
 B < 0.0005





# Soil Boring: UST-5

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: TD  
 Date Started: 11/7/2018  
 Date Completed: 11/8/2018

Driller: AEC  
 Drill Method: Air Knife / Hand Auger  
 Total Boring Depth: 8.5 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0 - 0.35	concrete (3.5 inches) in sidewalk
slightly moist	8.5				ML		0.35 - 3.0	(ML) medium dark brown, sandy SILT with some gravel, sand very fine to fine, gravel up to 1.5 inches, soft, no odor, no sheen
slightly moist	8.4				SW-SM		3.0 - 6.0	(SW-SM) medium brown, very fine to coarse SAND with 8-10% silt and some gravel (20%), gravel up to 1.5 inches, loose, no odor, no sheen
slightly moist	9.3				SW		6.0 - 7.5	(SW) medium grayish-brown SAND with trace (<5%) silt and some (15%) gravel up to 2 inches, medium dense, no odor, no sheen
slightly moist	7.0						7.5 - 8.0	medium grayish-brown, fine to very coarse SAND with some (20-25%) gravel up to 2 inches, loose to medium dense, no odor, no sheen
slightly moist	6.6						8.0 - 8.5	SAA, no odor, no sheen
							8.5 - 10.0	Bottom of borehole at 8.5 feet.

UST-5-8  
 G < 0.3  
 D < 4.3  
 HO = 11  
 B = 0.0008



# Soil Boring: UST-6

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: TD  
 Date Started: 11/8/2018  
 Date Completed: 11/8/2018

Driller: AEC  
 Drill Method: Air Knife / Hand Auger  
 Total Boring Depth: 8.5 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0	concrete (3.5 inches) in sidewalk
damp	7.4				ML		1	
							2	(ML) medium brown SILT with 8-10% gravel up to 1 inch, soft to firm, no odor, no sheen
damp	8.4				SW		3	
							4	(SW) medium yellow-brown, gravelly SAND, sand very fine to very coarse, gravel up to 2 inches (mostly <5 mm), trace silt (<5%), loose to medium dense, no odor, no sheen
							5	
damp	9.2						6	medium brown, gravelly SAND, similar to above, with gravel up to 3 inches (mostly <5 mm), no odor, no sheen
							7	
damp	7.7		UST-6-8	G < 0.3 D < 4.1 HO < 10 B = 0.001			8	medium brownish-gray SAND with 20% gravel up to 2 inches, sand fine to very coarse, medium dense, no odor, no sheen one 1.5 inch object of oxidized metal item (fill)
							8.5	Bottom of borehole at 8.5 feet.
							9	
							10	





# Soil Boring: UST-8

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: MBG  
 Date Started: 11/12/2018  
 Date Completed: 11/13/2018

Driller: AEC  
 Drill Method: Air Knife / Hand Auger  
 Total Boring Depth: 5.25 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
								concrete (4.5 inches) in sidewalk
damp	8.1				SW		1	
							2	(SW) brown, fine to coarse sand, 10-15% fine to coarse gravel, loose, no odor, no sheen
							3	UST encountered at 3 feet
damp	11.7				SM		4	(SM) brown, silty, fine to coarse SAND, 5% fine to coarse gravel, loose, no odor, no sheen
							4.5	asphalt chunks (6-8 inches long) encountered at 4.5 feet
wet	2.6				SW		5	(SW) brown, fine to coarse SAND, 10% fine to coarse gravel, 2-5% large cobbles, no odor, no sheen
							5.3	Bottom of borehole at 5.3 feet.
							6	
							7	
							8	
							9	
							10	



# Soil Boring: UST-9

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: MBG  
 Date Started: 11/12/2018  
 Date Completed: 11/12/2018

Driller: AEC  
 Drill Method: Air Knife / Hand Auger  
 Total Boring Depth: 8 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0	beauty bark (2 inches) in planter area
damp	6.1				SP		1	
damp	5.6				SP		2	(SP) brown, fine to medium SAND, very loose, 2% coarse sand to fine gravel, no odor, no sheen
damp	6.0				SP		3	
damp	6.0				SP		4	tan to light brown, fine to medium SAND, 5% coarse sand, 5% fine to coarse gravel, loose, no odor, no sheen
damp	6.6				SW		5	
					SW		6	(SW) tan, coarse SAND to fine GRAVEL, gravelly sand, loose, no odor, no sheen
					SW		7	
					SW		8	brown, coarse SAND to fine GRAVEL, gravelly sand, no odor, no sheen refusal at 8 feet
							8	Bottom of borehole at 8.0 feet.
							9	
							10	

UST-9-7.5  
 G < 0.4  
 D < 4.8  
 HO < 12  
 B < 0.0007



# Soil Boring: UST-10

Project: Chevron Service Station No. 96590  
 Client: Chevron EMC  
 Location: 232 E. Woodin Ave, Chelan, WA

Logged By: MBG  
 Date Started: 11/12/2018  
 Date Completed: 11/12/2018

Driller: AEC  
 Drill Method: Air Knife / Hand Auger  
 Total Boring Depth: 4.6 ft  
 Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0	beauty bark (2 inches) in planter area
damp	6.7				ML		2	(ML) brown SILT with 5-10% coarse gravel, soft, no odor, no sheen
damp	7.4				SP		4	(SP) brown, fine to medium SAND with 10-15% coarse sand, loose, no odor, no sheen refusal at 4.6 feet due to large cobbles
							5	Bottom of borehole at 4.6 feet.
							6	
							7	
							8	
							9	
							10	

**Appendix B:**  
**Laboratory Analysis Reports**

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## ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Chevron  
L4310  
6001 Bollinger Canyon Road  
San Ramon CA 94583

Report Date: November 08, 2018 15:12

**Project: 96590**

Account #: 11255  
Group Number: 2003517  
PO Number: 0015266018  
Release Number: HETRICK  
State of Sample Origin: WA

Electronic Copy To Leidos

Attn: Russ Shropshire

Respectfully Submitted,



Amek Carter  
Specialist

(717) 556-7252

To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. Historical copies may be requested through your project manager.





### SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
UST-1-5-7-102518 Grab Soil	10/25/2018 14:55	9873896
MW-40-8-102618 Grab Soil	10/26/2018 14:00	9873897
Trip Blank NA Water	10/25/2018	9873898

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

**Sample Description:** UST-1-5-7-102518 Grab Soil  
Facility# 96590  
232 East Woodin Ave. - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9873896  
ELLE Group #: 2003517  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 10/30/2018 09:45  
Collection Date/Time: 10/25/2018 14:55

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.001	0.0007	1.05
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	1.05
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0008	1.05
11995	Ethylbenzene	100-41-4	N.D.	0.0005	1.05
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0007	1.05
11995	Toluene	108-88-3	0.001	0.0008	1.05
11995	Xylene (Total)	1330-20-7	N.D.	0.001	1.05
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.013	1
10726	Naphthalene	91-20-3	N.D.	0.008	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.4	0.4	31.76
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.0	1
08272	Heavy Range Organics C24-C40	n.a.	13	13	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.42	0.628	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	21.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183092AA	11/06/2018 03:35	Patrick T Herres	1.05
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201830351759	10/25/2018 14:55	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201830351759	10/25/2018 14:55	Client Supplied	1

**Sample Description:** UST-1-5-7-102518 Grab Soil  
Facility# 96590  
232 East Woodin Ave. - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9873896  
**ELLE Group #:** 2003517  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 10/30/2018 09:45

**Collection Date/Time:** 10/25/2018 14:55

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201830351759	10/25/2018 14:55	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18304SLF026	11/02/2018 05:10	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18304SLF026	11/01/2018 08:00	Kayla A Yuditsky	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18309A16A	11/05/2018 23:45	Jeremy C Giffin	31.76
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201830351759	10/25/2018 14:55	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183040003A	11/01/2018 14:15	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183040003A	10/31/2018 19:02	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183041404902	11/07/2018 14:28	Jonathan J Allen	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183041404902	11/01/2018 05:58	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18304820002B	10/31/2018 09:14	Larry E Bevins	1

**Sample Description:** MW-40-8-102618 Grab Soil  
Facility# 96590  
232 East Woodin Ave. - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9873897  
ELLE Group #: 2003517  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 10/30/2018 09:45  
Collection Date/Time: 10/26/2018 14:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.96
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.96
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.96
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.96
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.96
11995	Toluene	108-88-3	0.0006	0.0006	0.96
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.96
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.037	0.003	1
10726	2-Methylnaphthalene	91-57-6	0.033	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.2	24.56
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	13	10	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.07	0.464	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	2.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

## Sample Comments

State of Washington Lab Certification No. C457

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183092AA	11/06/2018 03:58	Patrick T Herres	0.96
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201830351759	10/26/2018 14:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201830351759	10/26/2018 14:00	Client Supplied	1

**Sample Description:** MW-40-8-102618 Grab Soil  
Facility# 96590  
232 East Woodin Ave. - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9873897  
**ELLE Group #:** 2003517  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 10/30/2018 09:45  
**Collection Date/Time:** 10/26/2018 14:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201830351759	10/26/2018 14:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18304SLF026	11/02/2018 05:35	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18304SLF026	11/01/2018 08:00	Kayla A Yuditsky	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18309A16A	11/06/2018 00:23	Jeremy C Giffin	24.56
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201830351759	10/26/2018 14:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183040003A	11/01/2018 13:55	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183040003A	10/31/2018 19:02	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183041404902	11/07/2018 14:31	Jonathan J Allen	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183041404902	11/01/2018 05:58	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18304820002B	10/31/2018 09:14	Larry E Bevins	1

**Sample Description:** Trip Blank NA Water  
Facility# 96590  
232 East Woodin Ave. - Chelan, WA

**Chevron**  
ELLE Sample #: WW 9873898  
ELLE Group #: 2003517  
Matrix: Water

**Project Name:** 96590

Submittal Date/Time: 10/30/2018 09:45  
Collection Date/Time: 10/25/2018

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX 8260C	SW-846 8260C	1	D183102AA	11/06/2018 12:50	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	D183102AA	11/06/2018 12:50	Anita M Dale	1

## Quality Control Summary

Client Name: Chevron  
Reported: 11/08/2018 15:12

Group Number: 2003517

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result mg/kg	MDL mg/kg
Batch number: A183092AA	Sample number(s): 9873896-9873897	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
	<b>ug/l</b>	<b>ug/l</b>
Batch number: D183102AA	Sample number(s): 9873898	
Benzene	N.D.	0.2
Ethylbenzene	N.D.	0.4
Toluene	N.D.	0.2
Xylene (Total)	N.D.	1
	<b>mg/kg</b>	<b>mg/kg</b>
Batch number: 18304SLF026	Sample number(s): 9873896-9873897	
1-Methylnaphthalene	N.D.	0.003
2-Methylnaphthalene	N.D.	0.010
Naphthalene	N.D.	0.007
Batch number: 18309A16A	Sample number(s): 9873896-9873897	
NWTPH-GX Soil C7-C12	N.D.	0.2
Batch number: 183040003A	Sample number(s): 9873896-9873897	
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183041404902	Sample number(s): 9873896-9873897	
Lead	N.D.	0.600

### LCS/LCSD

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A183092AA	Sample number(s): 9873896-9873897								

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/08/2018 15:12

Group Number: 2003517

### LCS/LCSD

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzene	0.0200	0.0186	0.0200	0.0185	93	93	80-120	0	30
1,2-Dibromoethane	0.0200	0.0190	0.0200	0.0180	95	90	76-120	5	30
1,2-Dichloroethane	0.0200	0.0202	0.0200	0.0195	101	97	71-128	3	30
Ethylbenzene	0.0200	0.0179	0.0200	0.0183	89	91	78-120	2	30
Methyl Tertiary Butyl Ether	0.0200	0.0169	0.0200	0.0161	84	81	72-120	5	30
Toluene	0.0200	0.0177	0.0200	0.0180	89	90	80-120	2	30
Xylene (Total)	0.0600	0.0533	0.0600	0.0541	89	90	75-120	2	30
	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>					
Batch number: D183102AA	Sample number(s): 9873898								
Benzene	20	16.56	20	17.02	83	85	80-120	3	30
Ethylbenzene	20	16.13	20	16.91	81	85	80-120	5	30
Toluene	20	16.14	20	16.67	81	83	80-120	3	30
Xylene (Total)	60	48.54	60	50.87	81	85	80-120	5	30
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 18304SLF026	Sample number(s): 9873896-9873897								
1-Methylnaphthalene	1.67	1.58			95		81-117		
2-Methylnaphthalene	1.67	1.55			93		80-111		
Naphthalene	1.67	1.53			92		81-111		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 18309A16A	Sample number(s): 9873896-9873897								
NWTPH-GX Soil C7-C12	11	10.25	11	10.51	93	96	55-145	3	30
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 183040003A	Sample number(s): 9873896-9873897								
Diesel Range Organics C12-C24	133.36	110.91			83		61-115		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 183041404902	Sample number(s): 9873896-9873897								
Lead	15	15.2			101		90-115		
	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>					
Batch number: 18304820002B	Sample number(s): 9873896-9873897								
Moisture	89.5	89.43			100		99-101		

### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 11/08/2018 15:12

Group Number: 2003517

### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 183040003A Diesel Range Organics C12-C24										
	Sample number(s): 9873896-9873897 UNSPK: 9873896									
	N.D.	131.83	93.77			71		61-115		

### Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 183040003A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40				
	Sample number(s): 9873896-9873897 BKG: 9873896			
	N.D.	N.D.	0 (1)	20
	10.37	11.32	9 (1)	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183092AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9873896	104	104	93	89
9873897	106	108	93	92
Blank	105	100	94	93
LCS	102	101	98	103
LCSD	100	98	98	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX 8260C  
Batch number: D183102AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9873898	113	95	98	103
Blank	112	99	98	103
LCS	112	99	99	106
LCSD	110	100	101	107

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/08/2018 15:12

Group Number: 2003517

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX 8260C  
Batch number: D183102AA

Limits: 80-120 80-120 80-120 80-120

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18304SLF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9873896	78	78	80
9873897	84	84	87
Blank	82	86	90
LCS	83	81	84
Limits:	49-118	57-116	55-118

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18309A16A

	Trifluorotoluene-F
9873896	66
9873897	89
Blank	91
LCS	96
LCSD	98
Limits:	50-150

Analysis Name: NWTPH-Dx soil  
Batch number: 183040003A

	Orthoterphenyl
9873896	91
9873897	98
Blank	101
DUP	84
LCS	105
MS	99
Limits:	50-150

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # 11255 For Eurofins Lancaster Laboratories Environmental use only  
 Group # 2003517 Sample # 98-13896-98  
 Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix			5 Analyses Requested										6 Remarks			
Facility # <u>Chevron Site 96590</u>		WBS		Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>	Ground <input type="checkbox"/> Surface <input type="checkbox"/>	Total Number of Containers BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan	Oxygenates NWTPH-GX NWTPH-DX with Silica Gel Cleanup <input type="checkbox"/> NWTPH-DX without Silica Gel Cleanup <input type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/>	Lead <input checked="" type="checkbox"/> Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>6010</u> <u>BTEX/MTBE/EPB/EDC/8260B</u> Moisture Naphthalenes* by 8270D	SCR #: _____		<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits									
Site Address <u>232 East Woodin Ave, Chelan, WA</u>		Chevron PM <u>Eric Hetrick</u>							Lead Consultant <u>Leidos</u>											
Consultant/Office <u>Leidos - Bothell, WA</u>		Consultant Project Mgr. <u>Russ Shropshire</u>							Consultant Phone # <u>(206) 321-2387</u>											
Sampler <u>Alex Ghook</u>		3 Grab							3 Composite											
2 Sample Identification		Collected																		
		Date	Time																	
<u>UST-1-S-7-102518</u>		<u>10/26/18</u>	<u>1455</u>	<input checked="" type="checkbox"/>		<u>4</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
<u>MW-40-8-102618</u>		<u>10/26/18</u>	<u>1400</u>	<input checked="" type="checkbox"/>		<u>7</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
<u>Trip Blank</u>						<u>2</u>	<input checked="" type="checkbox"/>													
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>[Signature]</u>		Date <u>10/29/18</u>	Time <u>1100</u>	Received by		Date	Time	9								
Standard <input checked="" type="checkbox"/> 5 day      4 day 72 hour      48 hour      24 hour				Relinquished by		Date	Time	Received by		Date	Time									
8 Data Package (circle if required)		EDD (circle if required)		Relinquished by Commercial Carrier:				Received by		Date	Time									
Type I - Full		CVX-RTBU-FL_05 (default)		UPS <input checked="" type="checkbox"/> FedEx _____ Other _____				<u>[Signature]</u>		<u>10/30/18</u>	<u>0945</u>									
Type VI (Raw Data)		Other: _____		Temperature Upon Receipt <u>0.4</u> °C				Custody Seals Intact?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No									



2003517

Client: Chevron c/o Leidos

**Delivery and Receipt Information**

Delivery Method:	<u>UPS</u>	Arrival Timestamp:	<u>10/30/2018 9:45</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>

**Arrival Condition Summary**

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace $\geq$ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCI
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Nicole Reiff (25684) at 10:22 on 10/30/2018

**Samples Chilled Details**

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.4	DT	Wet	Y	Bagged	N

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mL</b>	milliliter(s)
<b>C</b>	degrees Celsius	<b>MPN</b>	Most Probable Number
<b>cfu</b>	colony forming units	<b>N.D.</b>	non-detect
<b>CP Units</b>	cobalt-chloroplatinate units	<b>ng</b>	nanogram(s)
<b>F</b>	degrees Fahrenheit	<b>NTU</b>	nephelometric turbidity units
<b>g</b>	gram(s)	<b>pg/L</b>	picogram/liter
<b>IU</b>	International Units	<b>RL</b>	Reporting Limit
<b>kg</b>	kilogram(s)	<b>TNTC</b>	Too Numerous To Count
<b>L</b>	liter(s)	<b>µg</b>	microgram(s)
<b>lb.</b>	pound(s)	<b>µL</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>umhos/cm</b>	micromhos/cm
<b>meq</b>	milliequivalents	<b>MCL</b>	Maximum Contamination Limit
<b>mg</b>	milligram(s)		
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

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

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
P^	Concentration difference between the primary and confirmation column $> 40\%$ . The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.



## ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Chevron  
L4310  
6001 Bollinger Canyon Road  
San Ramon CA 94583

Report Date: November 28, 2018 14:34

**Project: 96590**

Account #: 11255  
Group Number: 2007325  
PO Number: 0015293335  
Release Number: HETRICK  
State of Sample Origin: WA

Electronic Copy To Leidos

Attn: Russ Shropshire

Respectfully Submitted,



Amek Carter  
Specialist

(717) 556-7252

To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. Historical copies may be requested through your project manager.



## SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
MW-40-S-33-181102 Grab Soil	11/02/2018 11:40	9889894
MW-40-S-44-181102 Grab Soil	11/02/2018 13:40	9889895
MW-42-S-9-181103 Grab Soil	11/03/2018 09:30	9889896
MW-42-S-18.5-181103 Grab Soil	11/03/2018 10:05	9889897
MW-42-S-24-181103 Grab Soil	11/03/2018 11:00	9889898
MW-42-S-34-181103 Grab Soil	11/03/2018 11:40	9889899
MW-43-S-8-181104 Grab Soil	11/04/2018 10:20	9889900
MW-41-S-10-181105 Grab Soil	11/05/2018 09:10	9889901
RWB-2-S-8-181105 Grab Soil	11/05/2018 09:15	9889902
QA-1-O-181104 Grab Water	11/04/2018 11:30	9889903
MW-41-S-15-181105 Grab Soil	11/05/2018 09:40	9889904
MW-41-S-25-181105 Grab Soil	11/05/2018 11:10	9889905
MW-41-S-34-181105 Grab Soil	11/05/2018 11:25	9889906
RWB-3-S-8-181105 Grab Soil	11/05/2018 11:54	9889907
RWB-4-S-8-181105 Grab Soil	11/05/2018 14:50	9889908
QA-2-T-181105 NA Water	11/05/2018 10:00	9889909
QA-3-T-181105 NA Water	11/05/2018 11:00	9889910
QA-4-T-181105 NA Water	11/05/2018 12:00	9889911

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.



**Sample Description:** MW-40-S-33-181102 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9889894  
ELLE Group #: 2007325  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/02/2018 11:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0006	0.79
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.79
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	0.79
11995	Ethylbenzene	100-41-4	N.D.	0.0005	0.79
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.79
11995	Toluene	108-88-3	N.D.	0.0007	0.79
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.79
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.015	1
10726	Naphthalene	91-20-3	N.D.	0.01	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.5	0.4	28.96
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.9	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	15	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	11.9	0.628	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	32.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 10:15	Linda C Pape	0.79
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/02/2018 11:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/02/2018 11:40	Client Supplied	1

**Sample Description:** MW-40-S-33-181102 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889894  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/08/2018 10:05

**Collection Date/Time:** 11/02/2018 11:40

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/02/2018 11:40	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/18/2018 20:54	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34A	11/13/2018 19:36	Hu Yang	28.96
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/02/2018 11:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183130011A	11/12/2018 12:54	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183130011A	11/09/2018 23:00	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183151404902	11/14/2018 23:14	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183151404902	11/13/2018 05:25	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1

**Sample Description:** MW-40-S-44-181102 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9889895  
ELLE Group #: 2007325  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/02/2018 13:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0004	0.83
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0003	0.83
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.83
11995	Ethylbenzene	100-41-4	N.D.	0.0003	0.83
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0004	0.83
11995	Toluene	108-88-3	N.D.	0.0005	0.83
11995	Xylene (Total)	1330-20-7	N.D.	0.0009	0.83
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.3	0.2	21.17
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	10	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	2.05	0.490	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	3.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 10:37	Linda C Pape	0.83
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/02/2018 13:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/02/2018 13:40	Client Supplied	1

**Sample Description:** MW-40-S-44-181102 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889895  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/02/2018 13:40

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/02/2018 13:40	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/18/2018 21:19	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34A	11/13/2018 20:11	Hu Yang	21.17
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/02/2018 13:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183130011A	11/12/2018 14:10	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183130011A	11/09/2018 23:00	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183151404902	11/14/2018 23:17	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183151404902	11/13/2018 05:25	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1

**Sample Description:** MW-42-S-9-181103 Grab Soil  
**Facility#** 96590  
 232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889896  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/03/2018 09:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.91
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.91
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.91
11995	Ethylbenzene	100-41-4	0.0006	0.0004	0.91
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.91
11995	Toluene	108-88-3	0.001	0.0006	0.91
11995	Xylene (Total)	1330-20-7	0.007	0.001	0.91
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.52	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.68	0.011	1
10726	Naphthalene	91-20-3	0.13	0.007	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	87	1	96.47
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	510	22	5
08272	Heavy Range Organics C24-C40	n.a.	930	54	5
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.63	0.623	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	8.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 17:03	Linda C Pape	0.91
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/03/2018 09:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/03/2018 09:30	Client Supplied	1

**Sample Description:** MW-42-S-9-181103 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9889896  
ELLE Group #: 2007325  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/03/2018 09:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/03/2018 09:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/18/2018 22:31	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34A	11/13/2018 23:31	Hu Yang	96.47
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/03/2018 09:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183130011A	11/12/2018 17:35	Thomas C Wildermuth	5
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183130011A	11/09/2018 23:00	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183151404902	11/14/2018 23:20	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183151404902	11/13/2018 05:25	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1

**Sample Description:** MW-42-S-18.5-181103 Grab Soil  
**Facility# 96590**  
**232 East Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #:** SW 9889897  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/03/2018 10:05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.99
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.99
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.99
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.99
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
11995	Toluene	108-88-3	N.D.	0.0006	0.99
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.99
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.3	0.2	22.54
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.0	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	10	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.54	0.486	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	2.0	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 11:00	Linda C Pape	0.99
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/03/2018 10:05	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/03/2018 10:05	Client Supplied	1

**Sample Description:** MW-42-S-18.5-181103 Grab Soil  
**Facility# 96590**  
**232 East Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #: SW 9889897**  
**ELLE Group #: 2007325**  
**Matrix: Soil**

**Project Name:** 96590

**Submission Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/03/2018 10:05

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/03/2018 10:05	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/18/2018 22:56	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34A	11/13/2018 21:04	Hu Yang	22.54
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/03/2018 10:05	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183130011A	11/12/2018 14:30	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183130011A	11/09/2018 23:00	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183151404902	11/14/2018 23:23	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183151404902	11/13/2018 05:25	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1



**Sample Description:** MW-42-S-24-181103 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9889898  
ELLE Group #: 2007325  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/03/2018 11:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.73
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.73
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.73
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.73
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.73
11995	Toluene	108-88-3	N.D.	0.0006	0.73
11995	Xylene (Total)	1330-20-7	N.D.	0.0009	0.73
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.012	1
10726	Naphthalene	91-20-3	0.011	0.008	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.3	0.3	23.79
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.0	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	7.22	0.600	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	20.6	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 11:23	Linda C Pape	0.73
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/03/2018 11:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/03/2018 11:00	Client Supplied	1

**Sample Description:** MW-42-S-24-181103 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889898  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/03/2018 11:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/03/2018 11:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/18/2018 23:20	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34A	11/13/2018 21:42	Hu Yang	23.79
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/03/2018 11:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183130011A	11/12/2018 14:50	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183130011A	11/09/2018 23:00	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183151404902	11/14/2018 23:25	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183151404902	11/13/2018 05:25	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1

**Sample Description:** MW-42-S-34-181103 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9889899  
ELLE Group #: 2007325  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/03/2018 11:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.74
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.74
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.74
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.74
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.74
11995	Toluene	108-88-3	N.D.	0.0006	0.74
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.74
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	0.038	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.5	0.4	28.46
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.7	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.66	0.670	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	29.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 11:45	Linda C Pape	0.74
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/03/2018 11:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/03/2018 11:40	Client Supplied	1

**Sample Description:** MW-42-S-34-181103 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889899  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/08/2018 10:05

**Collection Date/Time:** 11/03/2018 11:40

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/03/2018 11:40	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/18/2018 23:44	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34A	11/13/2018 22:21	Hu Yang	28.46
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/03/2018 11:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183130011A	11/12/2018 15:56	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183130011A	11/09/2018 23:00	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183151404902	11/14/2018 23:28	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183151404902	11/13/2018 05:25	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1

**Sample Description:** MW-43-S-8-181104 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9889900  
ELLE Group #: 2007325  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/04/2018 10:20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.002	1.64
11995	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.64
11995	1,2-Dichloroethane	107-06-2	N.D.	0.002	1.64
11995	Ethylbenzene	100-41-4	N.D.	0.001	1.64
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.002	1.64
11995	Toluene	108-88-3	N.D.	0.002	1.64
11995	Xylene (Total)	1330-20-7	N.D.	0.003	1.64
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.007	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.021	1
10726	Naphthalene	91-20-3	0.021	0.014	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	1.1	55.18
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	8.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	21	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.91	0.992	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	52.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 12:08	Linda C Pape	1.64
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/04/2018 10:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/04/2018 10:20	Client Supplied	1

**Sample Description:** MW-43-S-8-181104 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9889900  
ELLE Group #: 2007325  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/04/2018 10:20

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/04/2018 10:20	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/20/2018 03:25	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34A	11/13/2018 22:56	Hu Yang	55.18
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/04/2018 10:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183130011A	11/12/2018 16:55	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183130011A	11/09/2018 23:00	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183161404901	11/16/2018 12:12	Eric L Eby	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183161404901	11/13/2018 15:10	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	3	18320820010C	11/18/2018 16:57	Scott W Freisher	1

**Sample Description:** MW-41-S-10-181105 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9889901  
ELLE Group #: 2007325  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/05/2018 09:10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.9
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.9
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.9
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.9
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.9
11995	Toluene	108-88-3	0.0009	0.0006	0.9
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.9
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
10726	Naphthalene	91-20-3	0.007	0.007	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	5.8	2.1	211.41
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	45	4.3	1
08272	Heavy Range Organics C24-C40	n.a.	23	11	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.65	0.594	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	8.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 12:31	Linda C Pape	0.9
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/05/2018 09:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/05/2018 09:10	Client Supplied	1

**Sample Description:** MW-41-S-10-181105 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889901  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/05/2018 09:10

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/05/2018 09:10	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/20/2018 03:49	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34A	11/13/2018 19:00	Hu Yang	211.41
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/05/2018 09:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190002A	11/16/2018 18:51	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	2	183190002A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183161404901	11/16/2018 12:15	Eric L Eby	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183161404901	11/13/2018 15:10	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1



**Sample Description:** RWB-2-S-8-181105 Grab Soil  
**Facility# 96590**  
**232 East Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #:** SW 9889902  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/05/2018 09:15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.9
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.9
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.9
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.9
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.9
11995	Toluene	108-88-3	N.D.	0.0006	0.9
11995	Xylene (Total)	1330-20-7	N.D.	0.0009	0.9
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.3	0.2	24.21
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	10	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	2.49	0.581	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	2.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 12:54	Linda C Pape	0.9
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/05/2018 09:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/05/2018 09:15	Client Supplied	1

**Sample Description:** RWB-2-S-8-181105 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889902  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/05/2018 09:15

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/05/2018 09:15	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/20/2018 04:13	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34B	11/15/2018 21:03	Hu Yang	24.21
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/05/2018 09:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183130011A	11/12/2018 16:16	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183130011A	11/09/2018 23:00	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183161404901	11/16/2018 12:23	Eric L Eby	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183161404901	11/13/2018 15:10	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1

**Sample Description:** QA-1-O-181104 Grab Water  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** WW 9889903  
**ELLE Group #:** 2007325  
**Matrix:** Water

**Project Name:** 96590

**Submission Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/04/2018 11:30

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Z183171AA	11/13/2018 15:59	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183171AA	11/13/2018 15:58	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18315C20A	11/11/2018 23:09	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030C	1	18315C20A	11/11/2018 23:08	Jeremy C Giffin	1

**Sample Description:** MW-41-S-15-181105 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9889904  
ELLE Group #: 2007325  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/05/2018 09:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.94
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.94
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	0.94
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.94
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.94
11995	Toluene	108-88-3	N.D.	0.0007	0.94
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.94
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.012	1
10726	Naphthalene	91-20-3	N.D.	0.008	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.3	26.7
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	2.42	0.634	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	14.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 13:16	Linda C Pape	0.94
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/05/2018 09:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/05/2018 09:40	Client Supplied	1

**Sample Description:** MW-41-S-15-181105 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889904  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/05/2018 09:40

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/05/2018 09:40	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/20/2018 04:38	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34B	11/15/2018 21:40	Hu Yang	26.7
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/05/2018 09:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183130011A	11/12/2018 16:36	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183130011A	11/09/2018 23:00	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183161404901	11/16/2018 12:26	Eric L Eby	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183161404901	11/13/2018 15:10	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1

**Sample Description:** MW-41-S-25-181105 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9889905  
ELLE Group #: 2007325  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/05/2018 11:10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.88
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.88
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.88
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.88
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.88
11995	Toluene	108-88-3	N.D.	0.0006	0.88
11995	Xylene (Total)	1330-20-7	N.D.	0.0009	0.88
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.3	0.2	20.31
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	1.65	0.589	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	6.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 13:39	Linda C Pape	0.88
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/05/2018 11:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/05/2018 11:10	Client Supplied	1

**Sample Description:** MW-41-S-25-181105 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889905  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/05/2018 11:10

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/05/2018 11:10	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/20/2018 05:02	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34B	11/15/2018 22:15	Hu Yang	20.31
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/05/2018 11:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183160049A	11/13/2018 22:27	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183160049A	11/13/2018 08:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183161404902	11/15/2018 15:49	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183161404902	11/13/2018 15:10	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1

**Sample Description:** MW-41-S-34-181105 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9889906  
ELLE Group #: 2007325  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/05/2018 11:25

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.8
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.8
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.8
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.8
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.8
11995	Toluene	108-88-3	N.D.	0.0006	0.8
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.8
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.013	1
10726	Naphthalene	91-20-3	N.D.	0.009	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.3	26.96
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	2.71	2.65	5
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	23.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 14:02	Linda C Pape	0.8
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/05/2018 11:25	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/05/2018 11:25	Client Supplied	1



**Sample Description:** MW-41-S-34-181105 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889906  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05

Collection Date/Time: 11/05/2018 11:25

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/05/2018 11:25	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/20/2018 05:27	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34B	11/15/2018 22:52	Hu Yang	26.96
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/05/2018 11:25	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183160049A	11/13/2018 22:46	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183160049A	11/13/2018 08:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183161404902	11/15/2018 15:51	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183161404902	11/13/2018 15:10	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1

**Sample Description:** RWB-3-S-8-181105 Grab Soil  
**Facility# 96590**  
 232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889907  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/05/2018 11:54

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.0008	0.0006	1.03
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	1.03
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	1.03
11995	Ethylbenzene	100-41-4	N.D.	0.0005	1.03
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	1.03
11995	Toluene	108-88-3	N.D.	0.0007	1.03
11995	Xylene (Total)	1330-20-7	N.D.	0.001	1.03
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.012	1
10726	Naphthalene	91-20-3	N.D.	0.008	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.4	34.28
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.7	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	1.87	0.490	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	14.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183201AA	11/16/2018 14:24	Linda C Pape	1.03
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/05/2018 11:54	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/05/2018 11:54	Client Supplied	1

**Sample Description:** RWB-3-S-8-181105 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889907  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/05/2018 11:54

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/05/2018 11:54	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/20/2018 05:51	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34B	11/15/2018 23:32	Hu Yang	34.28
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/05/2018 11:54	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183160049A	11/13/2018 22:07	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183160049A	11/13/2018 08:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183161404902	11/15/2018 15:54	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183161404902	11/13/2018 15:10	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1

**Sample Description:** RWB-4-S-8-181105 Grab Soil  
**Facility# 96590**  
**232 East Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #:** SW 9889908  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/05/2018 14:50

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.9
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.9
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.9
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.9
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.9
11995	Toluene	108-88-3	N.D.	0.0006	0.9
11995	Xylene (Total)	1330-20-7	N.D.	0.0009	0.9
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.2	22.11
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	6.8	4.2	1
08272	Heavy Range Organics C24-C40	n.a.	51	10	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	2.56	0.536	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	5.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183203AA	11/17/2018 05:24	Patrick T Herres	0.9
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831351855	11/05/2018 14:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831351855	11/05/2018 14:50	Client Supplied	1

**Sample Description:** RWB-4-S-8-181105 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9889908  
**ELLE Group #:** 2007325  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/05/2018 14:50

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831351855	11/05/2018 14:50	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18319SLB026	11/20/2018 06:15	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18319SLB026	11/16/2018 11:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18317A34B	11/16/2018 00:08	Hu Yang	22.11
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831351855	11/05/2018 14:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183160049A	11/13/2018 23:06	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183160049A	11/13/2018 08:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183161404902	11/15/2018 16:02	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183161404902	11/13/2018 15:10	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18318820006A	11/14/2018 11:52	Larry E Bevins	1

**Sample Description:** QA-2-T-181105 NA Water  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** WW 9889909  
**ELLE Group #:** 2007325  
**Matrix:** Water

**Project Name:** 96590

**Submission Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/05/2018 10:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Z183171AA	11/13/2018 16:24	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183171AA	11/13/2018 16:23	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18315C20A	11/11/2018 23:37	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030C	1	18315C20A	11/11/2018 23:36	Jeremy C Giffin	1

**Sample Description:** QA-3-T-181105 NA Water  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: WW 9889910  
ELLE Group #: 2007325  
Matrix: Water

**Project Name:** 96590

Submittal Date/Time: 11/08/2018 10:05  
Collection Date/Time: 11/05/2018 11:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Z183171AA	11/13/2018 16:48	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183171AA	11/13/2018 16:47	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18315C20A	11/12/2018 00:04	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030C	1	18315C20A	11/12/2018 00:03	Jeremy C Giffin	1

**Sample Description:** QA-4-T-181105 NA Water  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** WW 9889911  
**ELLE Group #:** 2007325  
**Matrix:** Water

**Project Name:** 96590

**Submission Date/Time:** 11/08/2018 10:05  
**Collection Date/Time:** 11/05/2018 12:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Z183171AA	11/13/2018 17:13	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183171AA	11/13/2018 17:12	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18315C20A	11/12/2018 00:32	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030C	1	18315C20A	11/12/2018 00:31	Jeremy C Giffin	1



## Quality Control Summary

Client Name: Chevron  
Reported: 11/28/2018 14:34

Group Number: 2007325

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result	MDL
	mg/kg	mg/kg
Batch number: A183201AA	Sample number(s): 9889894-9889902,9889904-9889907	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
Batch number: A183203AA	Sample number(s): 9889908	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
	<b>ug/l</b>	<b>ug/l</b>
Batch number: Z183171AA	Sample number(s): 9889903,9889909-9889911	
Benzene	N.D.	0.2
1,2-Dibromoethane	N.D.	0.2
1,2-Dichloroethane	N.D.	0.3
Ethylbenzene	N.D.	0.4
Methyl Tertiary Butyl Ether	N.D.	0.2
Toluene	N.D.	0.2
Xylene (Total)	N.D.	1
	<b>mg/kg</b>	<b>mg/kg</b>
Batch number: 18319SLB026	Sample number(s): 9889894-9889902,9889904-9889908	
1-Methylnaphthalene	N.D.	0.003
2-Methylnaphthalene	N.D.	0.010
Naphthalene	N.D.	0.007
Batch number: 18317A34A	Sample number(s): 9889894-9889901	
NWTPH-GX Soil C7-C12	N.D.	0.2
Batch number: 18317A34B	Sample number(s): 9889902,9889904-9889908	
NWTPH-GX Soil C7-C12	N.D.	0.2
	<b>ug/l</b>	<b>ug/l</b>
Batch number: 18315C20A	Sample number(s): 9889903,9889909-9889911	

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/28/2018 14:34

Group Number: 2007325

### Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
	mg/kg	mg/kg
NWTPH-Gx water C7-C12	N.D.	19
Batch number: 183130011A	Sample number(s): 9889894-9889900,9889902,9889904	
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	26	10
Batch number: 183160049A	Sample number(s): 9889905-9889908	
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183190002A	Sample number(s): 9889901	
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183151404902	Sample number(s): 9889894-9889899	
Lead	N.D.	0.600
Batch number: 183161404901	Sample number(s): 9889900-9889902,9889904	
Lead	N.D.	0.600
Batch number: 183161404902	Sample number(s): 9889905-9889908	
Lead	N.D.	0.600

### LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: A183201AA	Sample number(s): 9889894-9889902,9889904-9889907								
Benzene	0.0200	0.0195	0.0200	0.0200	98	100	80-120	2	30
1,2-Dibromoethane	0.0200	0.0194	0.0200	0.0197	97	98	76-120	1	30
1,2-Dichloroethane	0.0200	0.0212	0.0200	0.0211	106	105	71-128	1	30
Ethylbenzene	0.0200	0.0195	0.0200	0.0199	98	100	78-120	2	30
Methyl Tertiary Butyl Ether	0.0200	0.0166	0.0200	0.0171	83	85	72-120	3	30
Toluene	0.0200	0.0191	0.0200	0.0196	96	98	80-120	2	30
Xylene (Total)	0.0600	0.0569	0.0600	0.0584	95	97	75-120	3	30
Batch number: A183203AA	Sample number(s): 9889908								
Benzene	0.0200	0.0194	0.0200	0.0194	97	97	80-120	0	30
1,2-Dibromoethane	0.0200	0.0197	0.0200	0.0188	98	94	76-120	5	30
1,2-Dichloroethane	0.0200	0.0209	0.0200	0.0202	105	101	71-128	4	30
Ethylbenzene	0.0200	0.0193	0.0200	0.0191	97	96	78-120	1	30
Methyl Tertiary Butyl Ether	0.0200	0.0167	0.0200	0.0163	84	82	72-120	2	30
Toluene	0.0200	0.0191	0.0200	0.0190	96	95	80-120	1	30

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/28/2018 14:34

Group Number: 2007325

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Xylene (Total)	0.0600	0.0564	0.0600	0.0561	94	94	75-120	0	30
	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>					
Batch number: Z183171AA	Sample number(s): 9889903,9889909-9889911								
Benzene	20	23.53			118		80-120		
1,2-Dibromoethane	20	23.38			117		77-120		
1,2-Dichloroethane	20	17.62			88		73-124		
Ethylbenzene	20	22.19			111		80-120		
Methyl Tertiary Butyl Ether	20	20.78			104		69-122		
Toluene	20	23.55			118		80-120		
Xylene (Total)	60	68.71			115		80-120		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 18319SLB026	Sample number(s): 9889894-9889902,9889904-9889908								
1-Methylnaphthalene	1.67	1.55			93		81-117		
2-Methylnaphthalene	1.67	1.51			91		80-111		
Naphthalene	1.67	1.57			94		81-111		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 18317A34A	Sample number(s): 9889894-9889901								
NWTPH-GX Soil C7-C12	11	10.03	11	10.06	91	91	55-145	0	30
Batch number: 18317A34B	Sample number(s): 9889902,9889904-9889908								
NWTPH-GX Soil C7-C12	11	10.03	11	10.06	91	91	55-145	0	30
	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>					
Batch number: 18315C20A	Sample number(s): 9889903,9889909-9889911								
NWTPH-Gx water C7-C12	1100	1101.34	1100	1138.58	100	104	64-131	3	30
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 183130011A	Sample number(s): 9889894-9889900,9889902,9889904								
Diesel Range Organics C12-C24	133.36	108.03			81		61-115		
Batch number: 183160049A	Sample number(s): 9889905-9889908								
Diesel Range Organics C12-C24	133.36	105.52			79		61-115		
Batch number: 183190002A	Sample number(s): 9889901								
Diesel Range Organics C12-C24	133.36	106.64			80		61-115		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 183151404902	Sample number(s): 9889894-9889899								
Lead	15	15.62			104		90-115		
Batch number: 183161404901	Sample number(s): 9889900-9889902,9889904								
Lead	15	14.85			99		90-115		

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/28/2018 14:34

Group Number: 2007325

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 183161404902 Lead	Sample number(s): 9889905-9889908 15	15.82			105		90-115		
	%	%	%	%					
Batch number: 18318820006A Moisture	Sample number(s): 9889894-9889899,9889901-9889902,9889904-9889908 89.5	89.42			100		99-101		
Batch number: 18320820010C Moisture	Sample number(s): 9889900 89.5	89.44			100		99-101		

### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 18319SLB026 1-Methylnaphthalene	Sample number(s): 9889894-9889902,9889904-9889908 UNSPK: 9889895 N.D.	1.64	1.46	1.66	1.51	89	91	81-117	4	30
2-Methylnaphthalene	N.D.	1.64	1.43	1.66	1.51	87	91	80-111	5	30
Naphthalene	N.D.	1.64	1.45	1.66	1.55	88	93	81-111	6	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 183130011A Diesel Range Organics C12-C24	Sample number(s): 9889894-9889900,9889902,9889904 UNSPK: 9889894 N.D.	132.39	99.26			75		61-115		
Batch number: 183160049A Diesel Range Organics C12-C24	Sample number(s): 9889905-9889908 UNSPK: 9889908 6.46	131.61	75.09			52*		61-115		

### Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 183130011A Diesel Range Organics C12-C24	Sample number(s): 9889894-9889900,9889902,9889904 BKG: 9889894 N.D.	N.D.	0 (1)	20
Heavy Range Organics C24-C40	N.D.	20.23	200* (1)	20

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/28/2018 14:34

Group Number: 2007325

### Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 183160049A	Sample number(s): 9889905-9889908 BKG: 9889908			
Diesel Range Organics C12-C24	6.46	N.D.	200* (1)	20
Heavy Range Organics C24-C40	48.76	32.6	40* (1)	20
	%	%		
Batch number: 18318820006A	Sample number(s): 9889894-9889899,9889901-9889902,9889904-9889908 BKG: 9889901			
Moisture	8.11	6.99	15*	5
Batch number: 18320820010C	Sample number(s): 9889900 BKG: 9889900			
Moisture	52.04	51.24	2	5

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183201AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9889894	106	107	95	88
9889895	106	110	94	93
9889896	103	100	92	97
9889897	108	108	95	91
9889898	106	105	96	88
9889899	105	104	97	85
9889900	108	105	94	89
9889901	102	101	93	96
9889902	107	107	92	92
9889904	106	105	96	88
9889905	107	106	93	90
9889906	107	104	97	85
9889907	109	110	94	89
Blank	106	105	95	92
LCS	101	103	99	103
LCSD	99	101	98	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183203AA

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/28/2018 14:34

Group Number: 2007325

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C

Batch number: A183203AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9889908	110	110	95	89
Blank	106	106	95	92
LCS	101	105	100	104
LCSD	100	104	101	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C

Batch number: Z183171AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9889903	104	105	100	91
9889909	104	104	100	91
9889910	103	104	100	90
9889911	103	104	100	90
Blank	102	105	101	91
LCS	100	107	102	97
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Naph, 1-MN, 2-MN

Batch number: 18319SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9889894	86	88	89
9889895	84	89	87
9889896	90	80	81
9889897	85	89	86
9889898	88	95	88
9889899	84	85	85
9889900	82	82	83
9889901	86	86	85
9889902	85	84	91
9889904	91	89	90
9889905	87	94	92
9889906	82	83	86
9889907	84	89	91
9889908	87	94	91
Blank	82	86	88
LCS	87	89	90
MS	85	90	91
MSD	88	89	94

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/28/2018 14:34

Group Number: 2007325

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18319SLB026

Limits: 49-118 57-116 55-118

Analysis Name: NWTPH-Gx water C7-C12  
Batch number: 18315C20A

Trifluorotoluene-F

9889903	87
9889909	86
9889910	86
9889911	86
Blank	86
LCS	97
LCSD	100

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18317A34A

Trifluorotoluene-F

9889894	100
9889895	131
9889896	108
9889897	132
9889898	105
9889899	106
9889900	116
9889901	101
Blank	96
LCS	100
LCSD	101

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18317A34B

Trifluorotoluene-F

9889902	138
9889904	98
9889905	126
9889906	66
9889907	133
9889908	127
Blank	97

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/28/2018 14:34

Group Number: 2007325

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-GX Soil C7-C12

Batch number: 18317A34B

Trifluorotoluene-F

LCS	100
-----	-----

LCSD	101
------	-----

Limits: 50-150

Analysis Name: NWTPH-Dx soil

Batch number: 183130011A

Orthoterphenyl

9889894	99
---------	----

9889895	103
---------	-----

9889896	75
---------	----

9889897	103
---------	-----

9889898	102
---------	-----

9889899	101
---------	-----

9889900	101
---------	-----

9889902	105
---------	-----

9889904	109
---------	-----

Blank	105
-------	-----

DUP	97
-----	----

LCS	109
-----	-----

MS	106
----	-----

Limits: 50-150

Analysis Name: NWTPH-Dx soil

Batch number: 183160049A

Orthoterphenyl

9889905	99
---------	----

9889906	98
---------	----

9889907	99
---------	----

9889908	98
---------	----

Blank	102
-------	-----

DUP	97
-----	----

LCS	98
-----	----

MS	94
----	----

Limits: 50-150

Analysis Name: NWTPH-Dx soil

Batch number: 183190002A

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 11/28/2018 14:34

Group Number: 2007325

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Dx soil  
Batch number: 183190002A

	Orthoterphenyl
9889901	112
Blank	106
LCS	94
Limits:	50-150

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # 11255

For Eurofins Lancaster Laboratories Environmental use only

Group # 2007325 Sample # 9889894-911

Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks																																																																																																							
Facility # <u>Chevron Site # 9650</u>		WBS		Sediment <input type="checkbox"/>		Ground <input type="checkbox"/>		Surface <input type="checkbox"/>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Total Number of Containers</td> <td colspan="2">BTEX + MTBE <input type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth</td> <td colspan="2">8260 full scan</td> <td colspan="2">Oxygenates</td> <td colspan="2">NWTPH-Gx</td> <td colspan="2">NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/></td> <td colspan="2">NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/></td> <td colspan="2">WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/></td> <td colspan="2">Lead Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>6010</u></td> <td colspan="2" rowspan="6" style="vertical-align: top;">                 SCR #: _____   <input type="checkbox"/> Results in Dry Weight  <input type="checkbox"/> J value reporting needed  <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds  <input type="checkbox"/> 8021 MTBE Confirmation  <input type="checkbox"/> Confirm MTBE + Naphthalene  <input type="checkbox"/> Confirm highest hit by 8260  <input type="checkbox"/> Confirm all hits by 8260  <input type="checkbox"/> Run _____ oxy's on highest hit  <input type="checkbox"/> Run _____ oxy's on all hits             </td> </tr> <tr> <td colspan="2">Site Address <u>232 East Woodin Ave, Chelan, WA</u></td> <td colspan="2">Chevron PM <u>Eric Hetrick</u></td> <td colspan="2">Potable <input type="checkbox"/></td> <td colspan="2">NPDES <input type="checkbox"/></td> <td colspan="2">Air <input type="checkbox"/></td> <td colspan="2">Lead <input checked="" type="checkbox"/></td> <td colspan="2">Diss. <input type="checkbox"/></td> <td colspan="2">Method <u>6010</u></td> </tr> <tr> <td colspan="2">Consultant/Office <u>Leidas - Bothell, WA</u></td> <td colspan="2">Consultant Project Mgr. <u>Russ Shropshire</u></td> <td colspan="2">Soil <input checked="" type="checkbox"/></td> <td colspan="2">Water <input type="checkbox"/></td> <td colspan="2">Oil <input type="checkbox"/></td> <td colspan="2">Lead <input checked="" type="checkbox"/></td> <td colspan="2">Diss. <input type="checkbox"/></td> <td colspan="2">Method <u>6010</u></td> </tr> <tr> <td colspan="2">Consultant Phone # <u>425-482-3323</u></td> <td colspan="2">Sampler <u>Ruth Ottoman and Tom Duke</u></td> <td colspan="2">Grab <input checked="" type="checkbox"/></td> <td colspan="2">Composite <input type="checkbox"/></td> <td colspan="2"></td> <td colspan="2">Lead <input checked="" type="checkbox"/></td> <td colspan="2">Diss. <input type="checkbox"/></td> <td colspan="2">Method <u>6010</u></td> </tr> <tr> <td colspan="2">Sample Identification</td> <td colspan="2">Collected</td> <td colspan="2">Soil <input checked="" type="checkbox"/></td> <td colspan="2">Water <input type="checkbox"/></td> <td colspan="2">Oil <input type="checkbox"/></td> <td colspan="2">Lead <input checked="" type="checkbox"/></td> <td colspan="2">Diss. <input type="checkbox"/></td> <td colspan="2">Method <u>6010</u></td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2">Grab <input checked="" type="checkbox"/></td> <td colspan="2">Composite <input type="checkbox"/></td> <td colspan="2"></td> <td colspan="2">Lead <input checked="" type="checkbox"/></td> <td colspan="2">Diss. <input type="checkbox"/></td> <td colspan="2">Method <u>6010</u></td> </tr> </table>										Total Number of Containers		BTEX + MTBE <input type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth		8260 full scan		Oxygenates		NWTPH-Gx		NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/>		NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/>		WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/>		Lead Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>6010</u>		SCR #: _____  <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits		Site Address <u>232 East Woodin Ave, Chelan, WA</u>		Chevron PM <u>Eric Hetrick</u>		Potable <input type="checkbox"/>		NPDES <input type="checkbox"/>		Air <input type="checkbox"/>		Lead <input checked="" type="checkbox"/>		Diss. <input type="checkbox"/>		Method <u>6010</u>		Consultant/Office <u>Leidas - Bothell, WA</u>		Consultant Project Mgr. <u>Russ Shropshire</u>		Soil <input checked="" type="checkbox"/>		Water <input type="checkbox"/>		Oil <input type="checkbox"/>		Lead <input checked="" type="checkbox"/>		Diss. <input type="checkbox"/>		Method <u>6010</u>		Consultant Phone # <u>425-482-3323</u>		Sampler <u>Ruth Ottoman and Tom Duke</u>		Grab <input checked="" type="checkbox"/>		Composite <input type="checkbox"/>				Lead <input checked="" type="checkbox"/>		Diss. <input type="checkbox"/>		Method <u>6010</u>		Sample Identification		Collected		Soil <input checked="" type="checkbox"/>		Water <input type="checkbox"/>		Oil <input type="checkbox"/>		Lead <input checked="" type="checkbox"/>		Diss. <input type="checkbox"/>		Method <u>6010</u>						Grab <input checked="" type="checkbox"/>		Composite <input type="checkbox"/>				Lead <input checked="" type="checkbox"/>		Diss. <input type="checkbox"/>		Method <u>6010</u>		Remarks	
Total Number of Containers		BTEX + MTBE <input type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth		8260 full scan		Oxygenates		NWTPH-Gx												NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/>		NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/>		WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/>		Lead Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>6010</u>		SCR #: _____  <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits																																																																																													
Site Address <u>232 East Woodin Ave, Chelan, WA</u>		Chevron PM <u>Eric Hetrick</u>		Potable <input type="checkbox"/>		NPDES <input type="checkbox"/>		Air <input type="checkbox"/>												Lead <input checked="" type="checkbox"/>		Diss. <input type="checkbox"/>		Method <u>6010</u>																																																																																																	
Consultant/Office <u>Leidas - Bothell, WA</u>		Consultant Project Mgr. <u>Russ Shropshire</u>		Soil <input checked="" type="checkbox"/>		Water <input type="checkbox"/>		Oil <input type="checkbox"/>												Lead <input checked="" type="checkbox"/>		Diss. <input type="checkbox"/>		Method <u>6010</u>																																																																																																	
Consultant Phone # <u>425-482-3323</u>		Sampler <u>Ruth Ottoman and Tom Duke</u>		Grab <input checked="" type="checkbox"/>		Composite <input type="checkbox"/>														Lead <input checked="" type="checkbox"/>		Diss. <input type="checkbox"/>		Method <u>6010</u>																																																																																																	
Sample Identification		Collected		Soil <input checked="" type="checkbox"/>		Water <input type="checkbox"/>		Oil <input type="checkbox"/>												Lead <input checked="" type="checkbox"/>		Diss. <input type="checkbox"/>		Method <u>6010</u>																																																																																																	
				Grab <input checked="" type="checkbox"/>		Composite <input type="checkbox"/>				Lead <input checked="" type="checkbox"/>		Diss. <input type="checkbox"/>		Method <u>6010</u>																																																																																																											
Date		Time		Soil <input checked="" type="checkbox"/>		Water <input type="checkbox"/>		Oil <input type="checkbox"/>		Lead <input checked="" type="checkbox"/>		Diss. <input type="checkbox"/>		Method <u>6010</u>		* Include in 8270D 1-methyl + 2-methyl, naphthalenes																																																																																																									
<u>RWB-3-8-110518</u>		<u>11/5/18 1154</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>																																																																																																											
<u>RWB-4-8-110518</u>		<u>11/5/18 1450</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>																																																																																																											
<u>TB-1-110518</u>		<u>11/5/18 RO</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>																																																																																																											
<u>TB-2-110518</u>		<u>11/5/18 1000</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>																																																																																																											
<u>TB-3-110518</u>		<u>11/5/18 1100</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>																																																																																																											
<u>TB-4-110518</u>		<u>11/5/18 1200</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>																																																																																																											
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>Thomas Duke</u>				Date <u>11-06-18</u>		Time <u>12:00</u>		Received by _____		Date _____		Time _____																																																																																																									
Standard <input checked="" type="checkbox"/> 5 day      4 day 72 hour      48 hour      24 hour				Relinquished by _____				Date _____		Time _____		Received by _____		Date _____		Time _____																																																																																																									
8 Data Package (circle if required)				Relinquished by Commercial Carrier:				Received by <u>E. Jorder</u>				Date <u>11-8-18</u>		Time <u>1005</u>																																																																																																											
Type I - Full				CVX-RTBU-FI_05 (default)				UPS <input checked="" type="checkbox"/> FedEx _____ Other _____				Temperature Upon Receipt <u>0.5-0.8°C</u>		Custody Seals Intact? <input checked="" type="checkbox"/> Yes      No																																																																																																											
Type VI (Raw Data)				Other: _____																																																																																																																					

# Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # 11255

For Eurofins Lancaster Laboratories Environmental use only

Group # 2007325 Sample # 9589894-911

Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix				5 Analyses Requested											6 Remarks															
Facility # <u>Chevron Site 96590</u> WBS Site Address <u>232 East Woodin Ave, Chehalis, WA</u> Chevron PM <u>Eric Hetrick</u> Lead Consultant Consultant/Office <u>Leidos - Battlell, WA</u> Consultant Project Mgr. <u>Russ Shropshire</u> Consultant Phone # <u>425-482-3323</u>			<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air				Total Number of Containers: _____ <input type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>600</u> <u>EDB/EDC 8260B</u> <u>moisture</u> <u>Naphthalenes * by 8270D</u>											SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits															
Sampler <u>Ruth Otteman and Tom Dube</u>			3																														
2 Sample Identification		Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	MTBE	8021	8260	Naphth	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method	9							
Sample	ID	Date	Time																														
<u>MW-40-33-110218</u>		<u>11/2/18</u>	<u>1140</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						* Include in 8270D: 1-methyl + 2-methyl, Naphthalenes
<u>MW-40-44-110218</u>		<u>11/2/18</u>	<u>1340</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
<u>MW-42-9-110318</u>		<u>11/3/18</u>	<u>0930</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
<u>MW-42-18.5-110318</u>		<u>11/3/18</u>	<u>1005</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
<u>MW-42-24-110318</u>		<u>11/3/18</u>	<u>1100</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
<u>MW-42-34-110318</u>		<u>11/3/18</u>	<u>1140</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
<u>MW-43-8-110418</u>		<u>11/4/18</u>	<u>1020</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
<u>MW-41-10-110518</u>		<u>11/5/18</u>	<u>0910</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
<u>RWB-2-8-110518</u>		<u>11/5/18</u>	<u>0915</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
<u>ER-1-110418</u>		<u>11/4/18</u>	<u>1130</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
<u>MW-41-15-110518</u>		<u>11/5/18</u>	<u>0940</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
<u>MW-41-25-110518</u>		<u>11/5/18</u>	<u>1110</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
<u>MW-41-34-110518</u>		<u>11/5/18</u>	<u>1125</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
7 Turnaround Time Requested (TAT) (please circle) <input checked="" type="radio"/> Standard    5 day    4 day 72 hour    48 hour    24 hour			Relinquished by <u>Thomas Dube</u> Date <u>11-06-18</u> Time <u>12:00</u>		Received by _____ Date _____ Time _____																												
8 Data Package (circle if required) Type I - Full Type VI (Raw Data)			EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____		Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____				Received by <u>Wardner</u> Date <u>11-8-18</u> Time <u>1005</u>		Temperature Upon Receipt <u>0.5-0.8 °C</u>		Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																				



Client: Leidos

**Delivery and Receipt Information**

Delivery Method:	<u>UPS</u>	Arrival Timestamp:	<u>11/08/2018 10:05</u>
Number of Packages:	<u>4</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>WA</u>		

**Arrival Condition Summary**

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace $\geq$ 6mm:	Yes
Samples Chilled:	Yes	VOA IDs ( $\geq$ 6mm):	See Below
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	12
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

VOA Vial IDs (Headspace  $\geq$  6mm): TB-3-110518 (1 of 4)

Unpacked by Melvin Sanchez (8943) at 16:56 on 11/08/2018

**Samples Chilled Details**

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	0.5	DT	Wet	Y	Bagged	N
2	DT131	0.5	DT	Wet	Y	Bagged	N
3	DT131	0.8	DT	Wet	Y	Bagged	N
4	DT131	0.5	DT	Wet	Y	Bagged	N

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mL</b>	milliliter(s)
<b>C</b>	degrees Celsius	<b>MPN</b>	Most Probable Number
<b>cfu</b>	colony forming units	<b>N.D.</b>	non-detect
<b>CP Units</b>	cobalt-chloroplatinate units	<b>ng</b>	nanogram(s)
<b>F</b>	degrees Fahrenheit	<b>NTU</b>	nephelometric turbidity units
<b>g</b>	gram(s)	<b>pg/L</b>	picogram/liter
<b>IU</b>	International Units	<b>RL</b>	Reporting Limit
<b>kg</b>	kilogram(s)	<b>TNTC</b>	Too Numerous To Count
<b>L</b>	liter(s)	<b>µg</b>	microgram(s)
<b>lb.</b>	pound(s)	<b>µL</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>umhos/cm</b>	micromhos/cm
<b>meq</b>	milliequivalents	<b>MCL</b>	Maximum Contamination Limit
<b>mg</b>	milligram(s)		
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

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

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
P^	Concentration difference between the primary and confirmation column $> 40\%$ . The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.



## ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Chevron  
L4310  
6001 Bollinger Canyon Road  
San Ramon CA 94583

Report Date: December 04, 2018 17:36

**Project: 96590**

Account #: 11255  
Group Number: 2008697  
PO Number: 0015293335  
Release Number: HETRICK  
State of Sample Origin: WA

Electronic Copy To Leidos

Attn: Russ Shropshire

Respectfully Submitted,



Amek Carter  
Specialist

(717) 556-7252

To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. Historical copies may be requested through your project manager.



## SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
MW-43-S-10.5-181106 Grab Soil	11/06/2018 10:00	9896496
MW-43-S-16-181106 Grab Soil	11/06/2018 10:20	9896497
MW-43-S-20-181106 Grab Soil	11/06/2018 10:50	9896498
MW-43-S-32-181106 Grab Soil	11/06/2018 11:40	9896499
RWB-3-S-15-181107 Grab Soil	11/07/2018 09:30	9896500
RWB-3-S-20-181107 Grab Soil	11/07/2018 10:50	9896501
DUP-1-181107 Grab Soil	11/07/2018 11:00	9896502
RWB-3-S-26-181107 Grab Soil	11/07/2018 11:40	9896503
RWB-3-S-32-181107 Grab Soil	11/07/2018 12:15	9896504
RWB-3-S-45-181107 Grab Soil	11/07/2018 14:50	9896505
RWB-3-S-49.5-181107 Grab Soil	11/07/2018 15:20	9896506
QA-2-O-181108 Grab Water	11/08/2018 10:00	9896507
RWB-4-S-21-181108 Grab Soil	11/08/2018 14:05	9896508
RWB-4-S-14.5-181108 Grab Soil	11/08/2018 13:50	9896509
RWB-4-S-25-181108 Grab Soil	11/08/2018 14:40	9896510
RWB-4-S-30-181108 Grab Soil	11/08/2018 15:30	9896511
RWB-4-S-47-181108 Grab Soil	11/08/2018 16:40	9896512
UST-4-S-7.5-181107 Grab Soil	11/07/2018 14:15	9896513
UST-6-S-8-181108 Grab Soil	11/08/2018 09:55	9896514
UST-7-S-8-181108 Grab Soil	11/08/2018 15:00	9896515
UST-5-S-8-181108 Grab Soil	11/08/2018 08:32	9896516
UST-7-W-181108 Grab Water	11/08/2018 13:15	9896517
RWB-2-S-15-181109 Grab Soil	11/09/2018 11:10	9896518
RWB-2-S-27.5-181109 Grab Soil	11/09/2018 12:20	9896519
RWB-2-S-37-181109 Grab Soil	11/09/2018 14:45	9896520
RWB-2-S-48-181109 Grab Soil	11/09/2018 16:05	9896521
RWB-1-S-10.5-181110 Grab Soil	11/10/2018 11:55	9896522
RWB-1-S-14.5-181110 Grab Soil	11/10/2018 12:10	9896523
RWB-1-S-17.5-181110 Grab Soil	11/10/2018 13:10	9896524
RWB-1-S-23-181110 Grab Soil	11/10/2018 13:40	9896525
RWB-1-S-33-181110 Grab Soil	11/10/2018 14:50	9896526
RWB-1-S-44-181110 Grab Soil	11/10/2018 16:15	9896527
RWB-1-S-49.5-181110 Grab Soil	11/10/2018 16:30	9896528
DUP-2-181108 Grab Soil	11/10/2018 16:45	9896529
UST-2-S-8-181106 Grab Soil	11/06/2018 11:36	9896530
QA-5-T-181111 NA Water	11/11/2018 12:00	9896531
QA-6-T-181111 NA Water	11/11/2018 12:05	9896532
QA-7-T-181111 NA Water	11/11/2018 12:10	9896533
UST-3-S-8-181106 Grab Soil	11/06/2018 14:05	9896534
QA-8-T-181111 NA Water	11/11/2018 12:15	9896535
QA-9-T-181111 NA Water	11/11/2018 12:20	9896536

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.



**Sample Description:** MW-43-S-10.5-181106 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896496  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/06/2018 10:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.83
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.83
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.83
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.83
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.83
11995	Toluene	108-88-3	N.D.	0.0006	0.83
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.83
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.069	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.083	0.011	1
10726	Naphthalene	91-20-3	0.012	0.008	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	88	1.1	103.87
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	140	9.2	2
08272	Heavy Range Organics C24-C40	n.a.	370	23	2
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	7.25	0.552	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	13.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183241AA	11/20/2018 16:40	Stephen C Nolte	0.83
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/06/2018 10:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/06/2018 10:00	Client Supplied	1

**Sample Description:** MW-43-S-10.5-181106 Grab Soil  
**Facility# 96590**  
**232 E Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #: SW 9896496**  
**ELLE Group #: 2008697**  
**Matrix: Soil**

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/06/2018 10:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/06/2018 10:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18323SLD026	11/27/2018 13:23	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18323SLD026	11/19/2018 22:15	Karen L Beyer	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 03:03	Jeremy C Giffin	103.87
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/06/2018 10:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190002A	11/19/2018 04:46	Thomas C Wildermuth	2
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190002A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 09:55	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002A	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** MW-43-S-16-181106 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896497  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/06/2018 10:20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.89
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.89
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.89
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.89
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.89
11995	Toluene	108-88-3	0.0008	0.0006	0.89
11995	Xylene (Total)	1330-20-7	0.002	0.001	0.89
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.018	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.023	0.011	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.7	0.2	21.6
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	21	4.3	1
08272	Heavy Range Organics C24-C40	n.a.	28	11	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	4.70	0.594	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	7.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183241AA	11/20/2018 12:07	Stephen C Nolte	0.89
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/06/2018 10:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/06/2018 10:20	Client Supplied	1

**Sample Description:** MW-43-S-16-181106 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896497  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/06/2018 10:20

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/06/2018 10:20	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18323SLD026	11/27/2018 13:47	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18323SLD026	11/19/2018 22:15	Karen L Beyer	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 07:43	Jeremy C Giffin	21.6
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/06/2018 10:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190002A	11/16/2018 21:52	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190002A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 10:34	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002A	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** MW-43-S-20-181106 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896498  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/06/2018 10:50

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.81
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.81
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.81
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.81
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.81
11995	Toluene	108-88-3	0.0008	0.0006	0.81
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.81
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.012	1
10726	Naphthalene	91-20-3	N.D.	0.008	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.3	25.27
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	16	4.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.59	0.535	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	16.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183241AA	11/20/2018 12:30	Stephen C Nolte	0.81
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/06/2018 10:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/06/2018 10:50	Client Supplied	1

**Sample Description:** MW-43-S-20-181106 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896498  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/06/2018 10:50

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/06/2018 10:50	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18323SLD026	11/27/2018 14:12	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18323SLD026	11/19/2018 22:15	Karen L Beyer	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 14:44	Jeremy C Giffin	25.27
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/06/2018 10:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190002A	11/16/2018 20:52	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190002A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 10:40	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002A	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** MW-43-S-32-181106 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896499  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/06/2018 11:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0006	0.84
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.84
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	0.84
11995	Ethylbenzene	100-41-4	N.D.	0.0005	0.84
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.84
11995	Toluene	108-88-3	N.D.	0.0007	0.84
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.84

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	N.D.	0.009	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:  
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.3	26.48

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	17	5.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	7.10	0.785	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	29.2	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183241AA	11/20/2018 12:52	Stephen C Nolte	0.84
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/06/2018 11:40	Client Supplied	1

**Sample Description:** MW-43-S-32-181106 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896499  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/06/2018 11:40

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/06/2018 11:40	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/06/2018 11:40	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18323SLD026	11/27/2018 14:36	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18323SLD026	11/19/2018 22:15	Karen L Beyer	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 08:18	Jeremy C Giffin	26.48
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/06/2018 11:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190002A	11/16/2018 19:11	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190002A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 10:45	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002A	11/20/2018 11:08	Larry E Bevins	1



**Sample Description:** RWB-3-S-15-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896500  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/07/2018 09:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.98
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.98
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.98
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.98
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.98
11995	Toluene	108-88-3	0.0006	0.0006	0.98
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.98
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.4	0.2	25.01
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	23	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	10	10	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.16	0.416	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	2.6	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183241AA	11/20/2018 13:15	Stephen C Nolte	0.98
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/07/2018 09:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/07/2018 09:30	Client Supplied	1

**Sample Description:** RWB-3-S-15-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896500  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 09:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/07/2018 09:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18323SLG026	11/29/2018 02:57	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18323SLG026	11/20/2018 10:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 15:19	Jeremy C Giffin	25.01
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/07/2018 09:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190002A	11/16/2018 21:12	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190002A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 10:56	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002A	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** RWB-3-S-20-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896501  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 10:50

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.028	47.68
11995	1,2-Dibromoethane	106-93-4	N.D.	0.022	47.68
11995	1,2-Dichloroethane	107-06-2	N.D.	0.034	47.68
11995	Ethylbenzene	100-41-4	N.D.	0.022	47.68
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.028	47.68
11995	Toluene	108-88-3	N.D.	0.034	47.68
11995	Xylene (Total)	1330-20-7	N.D.	0.056	47.68
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.012	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.020	0.012	1
10726	Naphthalene	91-20-3	N.D.	0.008	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	44	2.0	182.07
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	18	4.7	1
08272	Heavy Range Organics C24-C40	n.a.	14	12	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.12	0.611	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	14.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183241AA	11/20/2018 14:26	Stephen C Nolte	47.68
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/07/2018 10:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/07/2018 10:50	Client Supplied	1

**Sample Description:** RWB-3-S-20-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896501  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 10:50

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/07/2018 10:50	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/28/2018 20:04	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 03:38	Jeremy C Giffin	182.07
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/07/2018 10:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190002A	11/16/2018 21:32	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190002A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 11:02	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002A	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** DUP-1-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896502  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 11:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.0006	0.0005	0.79
11995	1,2-Dibromoethane	106-93-4	0.0005	0.0004	0.79
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.79
11995	Ethylbenzene	100-41-4	0.0007	0.0004	0.79
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.79
11995	Toluene	108-88-3	0.001	0.0006	0.79
11995	Xylene (Total)	1330-20-7	0.003	0.0009	0.79
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.066	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.12	0.012	1
10726	Naphthalene	91-20-3	0.024	0.008	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	5.6	2.8	256.86
Reporting limits were raised due to sample foaming.					
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	7.8	4.7	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	7.85	0.577	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	15.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183241AA	11/20/2018 13:38	Stephen C Nolte	0.79
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/07/2018 11:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/07/2018 11:00	Client Supplied	1

**Sample Description:** DUP-1-181107 Grab Soil  
**Facility# 96590**  
**232 E Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #: SW 9896502**  
**ELLE Group #: 2008697**  
**Matrix: Soil**

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 11:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/07/2018 11:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/28/2018 20:28	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 09:29	Jeremy C Giffin	256.86
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/07/2018 11:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190002A	11/16/2018 19:51	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190002A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 11:07	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002A	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** RWB-3-S-26-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896503  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 11:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.002	0.0006	0.9
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.9
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	0.9
11995	Ethylbenzene	100-41-4	0.024	0.0005	0.9
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.9
11995	Toluene	108-88-3	0.003	0.0007	0.9
11995	Xylene (Total)	1330-20-7	0.22	0.001	0.9
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.009	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	0.026	0.009	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	4.7	0.3	26.9
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	8.1	5.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.47	0.773	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	26.8	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

## Sample Comments

State of Washington Lab Certification No. C457

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183241AA	11/20/2018 14:01	Stephen C Nolte	0.9
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/07/2018 11:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/07/2018 11:40	Client Supplied	1

**Sample Description:** RWB-3-S-26-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896503  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 11:40

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/07/2018 11:40	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/28/2018 21:40	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 10:04	Jeremy C Giffin	26.9
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/07/2018 11:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190002A	11/16/2018 19:31	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190002A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 11:13	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002A	11/20/2018 11:08	Larry E Bevins	1



**Sample Description:** RWB-3-S-32-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896504  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 12:15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.042	59.15
11995	1,2-Dibromoethane	106-93-4	N.D.	0.034	59.15
11995	1,2-Dichloroethane	107-06-2	N.D.	0.051	59.15
11995	Ethylbenzene	100-41-4	0.27	0.034	59.15
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.042	59.15
11995	Toluene	108-88-3	N.D.	0.051	59.15
11995	Xylene (Total)	1330-20-7	0.50	0.084	59.15
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.006	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	0.01	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	150	3.1	235.68
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.7	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.71	0.657	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	29.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183241AA	11/20/2018 15:56	Stephen C Nolte	59.15
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/07/2018 12:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/07/2018 12:15	Client Supplied	1

**Sample Description:** RWB-3-S-32-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896504  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 12:15

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/07/2018 12:15	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/28/2018 22:04	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 00:05	Jeremy C Giffin	235.68
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/07/2018 12:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240018A	11/22/2018 02:45	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183240018A	11/20/2018 18:58	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 11:18	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002A	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** RWB-3-S-45-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896505  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 14:50

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.43	0.054	61.63
11995	1,2-Dibromoethane	106-93-4	N.D.	0.043	61.63
11995	1,2-Dichloroethane	107-06-2	N.D.	0.065	61.63
11995	Ethylbenzene	100-41-4	0.24	0.043	61.63
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.054	61.63
11995	Toluene	108-88-3	N.D.	0.065	61.63
11995	Xylene (Total)	1330-20-7	0.66	0.11	61.63
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.006	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.017	1
10726	Naphthalene	91-20-3	0.048	0.012	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	19	2.1	131.57
Reporting limits were raised due to sample foaming.					
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	6.9	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	17	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	13.4	0.867	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	42.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183241AA	11/20/2018 14:49	Stephen C Nolte	61.63
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/07/2018 14:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/07/2018 14:50	Client Supplied	1

**Sample Description:** RWB-3-S-45-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896505  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 14:50

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/07/2018 14:50	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/28/2018 22:28	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 10:39	Jeremy C Giffin	131.57
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/07/2018 14:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190003A	11/16/2018 20:11	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190003A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 11:30	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002A	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** RWB-3-S-49.5-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896506  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 15:20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	1.4	0.037	53.23
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.88
11995	1,2-Dichloroethane	107-06-2	0.032	0.0007	0.88
11995	Ethylbenzene	100-41-4	0.035	0.0005	0.88
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.88
11995	Toluene	108-88-3	0.17	0.0007	0.88
11995	Xylene (Total)	1330-20-7	0.34	0.001	0.88
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	0.19	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	9.2	1.4	112.94
Reporting limits were raised due to sample foaming.					
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.03	0.669	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	28.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183251AA	11/21/2018 17:56	Stephen C Nolte	53.23
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183251AA	11/21/2018 18:11	Jennifer K Howe	0.88
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/07/2018 15:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/07/2018 15:20	Client Supplied	1

**Sample Description:** RWB-3-S-49.5-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896506  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 15:20

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/07/2018 15:20	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 00:28	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 11:14	Jeremy C Giffin	112.94
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/07/2018 15:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190003A	11/16/2018 20:31	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190003A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 11:36	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002B	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** QA-2-O-181108 Grab Water  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** WW 9896507  
**ELLE Group #:** 2008697  
**Matrix:** Water

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/08/2018 10:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	F183251AA	11/21/2018 14:39	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F183251AA	11/21/2018 14:38	Alexander D Sechrist	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18324B20A	11/20/2018 19:16	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18324B20A	11/20/2018 19:15	Linda C Pape	1

**Sample Description:** RWB-4-S-21-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896508  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/08/2018 14:05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.034	51.12
11995	1,2-Dibromoethane	106-93-4	N.D.	0.027	51.12
11995	1,2-Dichloroethane	107-06-2	N.D.	0.040	51.12
11995	Ethylbenzene	100-41-4	N.D.	0.027	51.12
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.034	51.12
11995	Toluene	108-88-3	N.D.	0.040	51.12
11995	Xylene (Total)	1330-20-7	N.D.	0.067	51.12
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.011	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.034	0.013	1
10726	Naphthalene	91-20-3	N.D.	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	240	6.1	503.93
The VOA soil weight is outside the acceptable weight range. See the VOA Prep Summary Sheet for the affected sample(s).					
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	5.6	5.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	12.7	0.535	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	23.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183252AA	11/22/2018 01:02	Patrick T Herres	51.12
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/08/2018 14:05	Client Supplied	1



**Sample Description:** **RWB-4-S-21-181108 Grab Soil**  
**Facility# 96590**  
**232 E Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #: SW 9896508**  
**ELLE Group #: 2008697**  
**Matrix: Soil**

**Project Name:** **96590**

Submittal Date/Time: 11/13/2018 09:35

Collection Date/Time: 11/08/2018 14:05

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/08/2018 14:05	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/08/2018 14:05	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/28/2018 23:16	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 04:48	Jeremy C Giffin	503.93
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/08/2018 14:05	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190003A	11/16/2018 20:52	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190003A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 11:41	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002B	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** RWB-4-S-14.5-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896509  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/08/2018 13:50

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.96
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.96
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.96
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.96
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.96
11995	Toluene	108-88-3	N.D.	0.0006	0.96
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.96
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.005	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	2.6	272.34
Reporting limits were raised due to sample foaming.					
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	9.5	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	18	10	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	4.06	0.442	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	2.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183251AA	11/21/2018 11:00	Jennifer K Howe	0.96
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/08/2018 13:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/08/2018 13:50	Client Supplied	1

**Sample Description:** RWB-4-S-14.5-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896509  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/08/2018 13:50

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/08/2018 13:50	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/28/2018 23:40	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 11:49	Jeremy C Giffin	272.34
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/08/2018 13:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190003A	11/16/2018 23:33	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190003A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 11:47	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002B	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** RWB-4-S-25-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896510  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/08/2018 14:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/kg</b>	<b>mg/kg</b>	
	<b>SW-846 8260C</b>				
11995	Benzene	71-43-2	0.001	0.0006	0.87
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.87
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	0.87
11995	Ethylbenzene	100-41-4	0.17	0.0005	0.87
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.87
11995	Toluene	108-88-3	0.002	0.0007	0.87
11995	Xylene (Total)	1330-20-7	0.043	0.001	0.87

The holding time was not met. The client was notified and the data reported.

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles</b>			<b>mg/kg</b>	<b>mg/kg</b>	
	<b>SW-846 8270D</b>				
10726	1-Methylnaphthalene	90-12-0	0.026	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.050	0.013	1
10726	Naphthalene	91-20-3	0.061	0.009	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>			<b>mg/kg</b>	<b>mg/kg</b>	
	<b>ECY 97-602 NWT PH-Gx</b>				
02005	NWT PH-GX Soil C7-C12	n.a.	64	2.8	220.11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons</b>			<b>mg/kg</b>	<b>mg/kg</b>	
	<b>ECY 97-602 NWT PH-Dx modified</b>				
08272	Diesel Range Organics C12-C24	n.a.	6.7	5.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>			<b>mg/kg</b>	<b>mg/kg</b>	
	<b>SW-846 6010D Rev.4, July 2014</b>				
06955	Lead	7439-92-1	8.85	0.615	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Wet Chemistry</b>			<b>%</b>	<b>%</b>	
	<b>SM 2540 G-2011 %Moisture Calc</b>				
00111	Moisture	n.a.	26.7	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183303AA	11/27/2018 05:48	Patrick T Herres	0.87
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/08/2018 14:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/08/2018 14:40	Client Supplied	1

**Sample Description:** RWB-4-S-25-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896510  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35

**Collection Date/Time:** 11/08/2018 14:40

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 00:04	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 05:23	Jeremy C Giffin	220.11
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/08/2018 14:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190003A	11/16/2018 21:12	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190003A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 11:53	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002B	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** RWB-4-S-30-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896511  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/08/2018 15:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.039	55.43
11995	1,2-Dibromoethane	106-93-4	N.D.	0.031	55.43
11995	1,2-Dichloroethane	107-06-2	N.D.	0.047	55.43
11995	Ethylbenzene	100-41-4	N.D.	0.031	55.43
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.039	55.43
11995	Toluene	108-88-3	N.D.	0.047	55.43
11995	Xylene (Total)	1330-20-7	N.D.	0.078	55.43
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.12	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.10	0.014	1
10726	Naphthalene	91-20-3	N.D.	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	740	7.8	597.06
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	31	5.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	11.3	0.737	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	29.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183252AA	11/22/2018 01:27	Patrick T Herres	55.43
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/08/2018 15:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/08/2018 15:30	Client Supplied	1

**Sample Description:** RWB-4-S-30-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896511  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/08/2018 15:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/08/2018 15:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18323SLG026	11/29/2018 03:19	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18323SLG026	11/20/2018 10:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 06:33	Jeremy C Giffin	597.06
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/08/2018 15:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190003A	11/16/2018 21:32	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190003A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 12:04	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002B	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** RWB-4-S-47-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896512  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35

**Collection Date/Time:** 11/08/2018 16:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Acetone	67-64-1	N.D.	0.49	57.47
11995	Benzene	71-43-2	1.1	0.041	57.47
11995	Bromobenzene	108-86-1	N.D.	0.033	57.47
11995	Bromochloromethane	74-97-5	N.D.	0.049	57.47
11995	Bromodichloromethane	75-27-4	N.D.	0.033	57.47
11995	Bromoform	75-25-2	N.D.	0.41	57.47
11995	Bromomethane	74-83-9	N.D.	0.057	57.47
11995	2-Butanone	78-93-3	N.D.	0.082	57.47
11995	n-Butylbenzene	104-51-8	28.E	0.25	57.47
11995	sec-Butylbenzene	135-98-8	8.9	0.16	57.47
11995	tert-Butylbenzene	98-06-6	N.D.	0.065	57.47
11995	Carbon Disulfide	75-15-0	N.D.	0.049	57.47
11995	Carbon Tetrachloride	56-23-5	N.D.	0.041	57.47
11995	Chlorobenzene	108-90-7	N.D.	0.041	57.47
11995	Chloroethane	75-00-3	N.D.	0.082	57.47
11995	Chloroform	67-66-3	N.D.	0.049	57.47
11995	Chloromethane	74-87-3	N.D.	0.049	57.47
11995	2-Chlorotoluene	95-49-8	N.D.	0.033	57.47
11995	4-Chlorotoluene	106-43-4	N.D.	0.033	57.47
11995	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.033	57.47
11995	Dibromochloromethane	124-48-1	N.D.	0.033	57.47
11995	1,2-Dibromoethane	106-93-4	N.D.	0.033	57.47
11995	Dibromomethane	74-95-3	N.D.	0.041	57.47
11995	1,2-Dichlorobenzene	95-50-1	N.D.	0.041	57.47
11995	1,3-Dichlorobenzene	541-73-1	N.D.	0.041	57.47
11995	1,4-Dichlorobenzene	106-46-7	N.D.	0.033	57.47
11995	Dichlorodifluoromethane	75-71-8	N.D.	0.049	57.47
11995	1,1-Dichloroethane	75-34-3	N.D.	0.041	57.47
11995	1,2-Dichloroethane	107-06-2	N.D.	0.049	57.47
11995	1,1-Dichloroethene	75-35-4	N.D.	0.041	57.47
11995	cis-1,2-Dichloroethene	156-59-2	N.D.	0.041	57.47
11995	trans-1,2-Dichloroethene	156-60-5	N.D.	0.041	57.47
11995	1,2-Dichloropropane	78-87-5	N.D.	0.041	57.47
11995	1,3-Dichloropropane	142-28-9	N.D.	0.033	57.47
11995	2,2-Dichloropropane	594-20-7	N.D.	0.041	57.47
11995	1,1-Dichloropropene	563-58-6	N.D.	0.041	57.47
11995	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.033	57.47
11995	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.025	57.47
11995	Ethylbenzene	100-41-4	6.7	0.033	57.47
11995	Hexachlorobutadiene	87-68-3	N.D.	0.41	57.47
11995	2-Hexanone	591-78-6	N.D.	0.082	57.47
11995	Isopropylbenzene	98-82-8	14	0.033	57.47
11995	p-Isopropyltoluene	99-87-6	4.7	0.16	57.47
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.041	57.47
11995	4-Methyl-2-pentanone	108-10-1	N.D.	0.082	57.47
11995	Methylene Chloride	75-09-2	N.D.	0.16	57.47
11995	Naphthalene	91-20-3	8.2	0.16	57.47
11995	n-Propylbenzene	103-65-1	40.E	0.033	57.47
11995	Styrene	100-42-5	N.D.	0.025	57.47



**Sample Description:** RWB-4-S-47-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896512  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submission Date/Time: 11/13/2018 09:35

Collection Date/Time: 11/08/2018 16:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.041	57.47
11995	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.033	57.47
11995	Tetrachloroethene	127-18-4	N.D.	0.041	57.47
11995	Toluene	108-88-3	1.0	0.049	57.47
11995	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.41	57.47
11995	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.41	57.47
11995	1,1,1-Trichloroethane	71-55-6	N.D.	0.049	57.47
11995	1,1,2-Trichloroethane	79-00-5	N.D.	0.041	57.47
11995	Trichloroethene	79-01-6	N.D.	0.041	57.47
11995	Trichlorofluoromethane	75-69-4	N.D.	0.057	57.47
11995	1,2,3-Trichloropropane	96-18-4	N.D.	0.049	57.47
11995	1,2,4-Trimethylbenzene	95-63-6	88.E	0.041	57.47
11995	1,3,5-Trimethylbenzene	108-67-8	66.E	0.041	57.47
11995	Vinyl Chloride	75-01-4	N.D.	0.049	57.47
11995	m+p-Xylene	179601-23-1	74.E	0.082	57.47
11995	o-Xylene	95-47-6	16	0.033	57.47
11995	Xylene (Total)	1330-20-7	91.E	0.082	57.47

The recovery for the sample internal standard is outside the QC acceptance limits. The following action was taken: The sample was re-analyzed outside of the method specified holding time and the QC was within acceptance limits. The data is reported from the initial trial.

The concentrations reported for m&p-Xylene, Xylene (total), n-Propylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene and n-Butylbenzene are estimated since they exceed the calibration range of the instrument. A further diluted analysis was performed outside of the method specified holding time and confirms the initial analysis.

<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.11	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.24	0.014	1
10726	Naphthalene	91-20-3	0.10	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	230	7.2	550.77
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.7	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.38	0.594	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	

**Sample Description:** **RWB-4-S-47-181108 Grab Soil**  
**Facility# 96590**  
**232 E Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #: SW 9896512**  
**ELLE Group #: 2008697**  
**Matrix: Soil**

**Project Name:** **96590**

Submission Date/Time: 11/13/2018 09:35  
 Collection Date/Time: 11/08/2018 16:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Wet Chemistry</b>		<b>SM 2540 G-2011</b>	%	%	
		<b>%Moisture Calc</b>			
00111	Moisture	n.a.	29.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	8260 Solvent Cmpd List - Soil	SW-846 8260C	1	Q183251AA	11/21/2018 18:46	Stephen C Nolte	57.47
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/08/2018 16:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/08/2018 16:40	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/08/2018 16:40	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 00:52	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 00:40	Jeremy C Giffin	550.77
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/08/2018 16:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240018A	11/22/2018 03:05	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	2	183240018A	11/20/2018 18:58	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 12:10	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002B	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** UST-4-S-7.5-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896513  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/07/2018 14:15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	1
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	1
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	1
11995	Ethylbenzene	100-41-4	N.D.	0.0004	1
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
11995	Toluene	108-88-3	0.001	0.0006	1
11995	Xylene (Total)	1330-20-7	N.D.	0.001	1
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.3	29.89
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	4.50	0.611	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	6.4	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183241AA	11/20/2018 14:46	Stephen C Nolte	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/07/2018 14:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/07/2018 14:15	Client Supplied	1

**Sample Description:** UST-4-S-7.5-181107 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896513  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/07/2018 14:15

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/07/2018 14:15	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 01:16	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 14:09	Jeremy C Giffin	29.89
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/07/2018 14:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190003A	11/16/2018 22:32	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190003A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 12:16	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002B	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** UST-6-S-8-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896514  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/08/2018 09:55

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.001	0.0005	1.01
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	1.01
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	1.01
11995	Ethylbenzene	100-41-4	N.D.	0.0004	1.01
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
11995	Toluene	108-88-3	0.002	0.0006	1.01
11995	Xylene (Total)	1330-20-7	N.D.	0.001	1.01
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.3	28.05
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	10	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.67	0.425	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	4.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183251AA	11/21/2018 11:23	Jennifer K Howe	1.01
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/08/2018 09:55	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/08/2018 09:55	Client Supplied	1

**Sample Description:** UST-6-S-8-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896514  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/08/2018 09:55

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/08/2018 09:55	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 01:40	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 15:54	Jeremy C Giffin	28.05
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/08/2018 09:55	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190003A	11/16/2018 22:12	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190003A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 12:21	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002B	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** UST-7-S-8-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896515  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/08/2018 15:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>SW-846 8260C</b>					
11995	Benzene	71-43-2	0.023	0.0006	1.01
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	1.01
11995	1,2-Dichloroethane	107-06-2	0.002	0.0007	1.01
11995	Ethylbenzene	100-41-4	N.D.	0.0005	1.01
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	1.01
11995	Toluene	108-88-3	0.018	0.0007	1.01
11995	Xylene (Total)	1330-20-7	0.004	0.001	1.01

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated: 1,2-dichloroethane.

<b>GC/MS Semivolatiles</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>SW-846 8270D</b>					
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.012	1
10726	Naphthalene	91-20-3	N.D.	0.008	1

<b>GC Volatiles</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>ECY 97-602 NWTPH-Gx</b>					
02005	NWTPH-GX Soil C7-C12	n.a.	2.7	0.3	30.09

<b>GC Petroleum Hydrocarbons</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>ECY 97-602 NWTPH-Dx modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1

<b>Metals</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>SW-846 6010D Rev.4, July 2014</b>					
06955	Lead	7439-92-1	62.0	0.625	1

<b>Wet Chemistry</b>			<b>%</b>	<b>%</b>	
<b>SM 2540 G-2011 %Moisture Calc</b>					
00111	Moisture	n.a.	17.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	X183251AA	11/21/2018 18:29	Jennifer K Howe	1.01

**Sample Description:** UST-7-S-8-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896515  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35

Collection Date/Time: 11/08/2018 15:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/08/2018 15:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/08/2018 15:00	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/08/2018 15:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 02:04	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18320A34A	11/16/2018 21:53	Jeremy C Giffin	30.09
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/08/2018 15:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200053A	11/19/2018 14:01	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200053A	11/18/2018 00:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 12:27	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002B	11/20/2018 11:08	Larry E Bevins	1



**Sample Description:** UST-5-S-8-181108 Grab Soil  
**Facility# 96590**  
**232 E Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #:** SW 9896516  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/08/2018 08:32

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.0008	0.0006	1.03
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	1.03
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	1.03
11995	Ethylbenzene	100-41-4	N.D.	0.0004	1.03
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	1.03
11995	Toluene	108-88-3	0.002	0.0007	1.03
11995	Xylene (Total)	1330-20-7	N.D.	0.001	1.03
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.3	29.5
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.3	1
08272	Heavy Range Organics C24-C40	n.a.	11	11	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.60	0.457	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	7.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	X183251AA	11/21/2018 18:52	Jennifer K Howe	1.03
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/08/2018 08:32	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/08/2018 08:32	Client Supplied	1

**Sample Description:** UST-5-S-8-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896516  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/08/2018 08:32

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/08/2018 08:32	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 14:02	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18320A34A	11/16/2018 22:28	Jeremy C Giffin	29.5
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/08/2018 08:32	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183190003A	11/16/2018 23:53	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183190003A	11/15/2018 19:48	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183201404904	11/25/2018 12:38	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183201404904	11/20/2018 15:15	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820002B	11/20/2018 11:08	Larry E Bevins	1

**Sample Description:** UST-7-W-181108 Grab Water  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** WW 9896517  
**ELLE Group #:** 2008697  
**Matrix:** Water

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35

**Collection Date/Time:** 11/08/2018 13:15

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
11997	Acetone	67-64-1	0.9	0.7	1
11997	Benzene	71-43-2	N.D.	0.2	1
11997	Bromobenzene	108-86-1	N.D.	0.2	1
11997	Bromochloromethane	74-97-5	N.D.	0.2	1
11997	Bromodichloromethane	75-27-4	N.D.	0.2	1
11997	Bromoform	75-25-2	N.D.	0.2	1
11997	Bromomethane	74-83-9	N.D.	0.3	1
11997	2-Butanone	78-93-3	N.D.	0.3	1
11997	n-Butylbenzene	104-51-8	N.D.	0.2	1
11997	sec-Butylbenzene	135-98-8	N.D.	0.2	1
11997	tert-Butylbenzene	98-06-6	N.D.	0.3	1
11997	Carbon Disulfide	75-15-0	N.D.	0.2	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
11997	Chlorobenzene	108-90-7	N.D.	0.2	1
11997	Chloroethane	75-00-3	N.D.	0.2	1
11997	Chloroform	67-66-3	N.D.	0.2	1
11997	Chloromethane	74-87-3	N.D.	0.2	1
11997	2-Chlorotoluene	95-49-8	N.D.	0.2	1
11997	4-Chlorotoluene	106-43-4	N.D.	0.2	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.3	1
11997	Dibromochloromethane	124-48-1	N.D.	0.2	1
11997	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
11997	Dibromomethane	74-95-3	N.D.	0.2	1
11997	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
11997	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
11997	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
11997	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
11997	1,3-Dichloropropane	142-28-9	N.D.	0.2	1
11997	2,2-Dichloropropane	594-20-7	N.D.	0.3	1
11997	1,1-Dichloropropene	563-58-6	N.D.	0.2	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.2	1
11997	Ethylbenzene	100-41-4	N.D.	0.4	1
11997	Hexachlorobutadiene	87-68-3	N.D.	0.7	1
11997	2-Hexanone	591-78-6	N.D.	0.3	1
11997	Isopropylbenzene	98-82-8	N.D.	0.2	1
11997	p-Isopropyltoluene	99-87-6	N.D.	0.2	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
11997	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
11997	Methylene Chloride	75-09-2	N.D.	0.3	1
11997	Naphthalene	91-20-3	N.D.	1	1
11997	n-Propylbenzene	103-65-1	N.D.	0.2	1
11997	Styrene	100-42-5	N.D.	0.2	1

**Sample Description:** UST-7-W-181108 Grab Water  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: WW 9896517  
ELLE Group #: 2008697  
Matrix: Water

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/08/2018 13:15

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
11997	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.2	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
11997	Tetrachloroethene	127-18-4	N.D.	0.2	1
11997	Toluene	108-88-3	N.D.	0.2	1
11997	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.4	1
11997	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.3	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.3	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
11997	Trichloroethene	79-01-6	N.D.	0.2	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
11997	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
11997	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
11997	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.3	1
11997	Vinyl Chloride	75-01-4	N.D.	0.2	1
11997	m+p-Xylene	179601-23-1	N.D.	1	1
11997	o-Xylene	95-47-6	N.D.	0.4	1
11997	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWT PH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWT PH-Gx water C7-C12	n.a.	53	19	1
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWT PH-Dx modified</b>	<b>ug/l</b>	<b>ug/l</b>	
12899	DX DRO C12-C24	n.a.	110	45	1
12899	DX HRO C24-C40	n.a.	200	100	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>ug/l</b>	<b>ug/l</b>	
07055	Lead	7439-92-1	347	7.1	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	8260 Solvent Cmpd List - Water	SW-846 8260C	1	W183233AA	11/19/2018 22:18	Don V Viray	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	W183233AA	11/19/2018 22:17	Don V Viray	1
08273	NWT PH-Gx water C7-C12	ECY 97-602 NWT PH-Gx	1	18324B20A	11/21/2018 00:19	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18324B20A	11/21/2018 00:18	Linda C Pape	1
12899	NWT PH-Dx water	ECY 97-602 NWT PH-Dx modified	1	183240044A	11/26/2018 23:45	Thomas C Wildermuth	1

**Sample Description:** UST-7-W-181108 Grab Water  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: WW 9896517  
ELLE Group #: 2008697  
Matrix: Water

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/08/2018 13:15

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12907	Mini-extraction DRO DX (water)	ECY 97-602 NWTPH-Dx 06/97	1	183240044A	11/21/2018 20:15	Osvaldo R Sanchez	1
07055	Lead	SW-846 6010D Rev.4, July 2014	1	183201404402	11/28/2018 08:36	Eric L Eby	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	183201404402	11/19/2018 03:37	James L Mertz	1

**Sample Description:** RWB-2-S-15-181109 Grab Soil  
**Facility# 96590**  
 232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896518  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/09/2018 11:10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.002	0.0004	0.82
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0003	0.82
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.82
11995	Ethylbenzene	100-41-4	N.D.	0.0003	0.82
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0004	0.82
11995	Toluene	108-88-3	0.0009	0.0005	0.82
11995	Xylene (Total)	1330-20-7	N.D.	0.0009	0.82
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.5	0.2	22.18
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	10	4.2	1
08272	Heavy Range Organics C24-C40	n.a.	48	10	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.33	2.72	5
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	4.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	X183251AA	11/21/2018 19:15	Jennifer K Howe	0.82
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/09/2018 11:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/09/2018 11:10	Client Supplied	1

**Sample Description:** RWB-2-S-15-181109 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896518  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/09/2018 11:10

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/09/2018 11:10	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 02:52	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18320A34A	11/16/2018 23:38	Jeremy C Giffin	22.18
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/09/2018 11:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200053A	11/19/2018 14:21	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200053A	11/18/2018 00:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/23/2018 06:29	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** RWB-2-S-27.5-181109 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896519  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/09/2018 12:20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>mg/kg</b>	<b>mg/kg</b>	
	<b>SW-846 8260C</b>				
11995	Benzene	71-43-2	N.D.	0.041	58.37
11995	1,2-Dibromoethane	106-93-4	N.D.	0.033	58.37
11995	1,2-Dichloroethane	107-06-2	N.D.	0.049	58.37
11995	Ethylbenzene	100-41-4	0.84	0.033	58.37
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.041	58.37
11995	Toluene	108-88-3	N.D.	0.049	58.37
11995	Xylene (Total)	1330-20-7	60.E	0.082	58.37

The concentration reported for xylene (total) is estimated since it exceeds the calibration range of the instrument. A further diluted analysis was performed from a previously opened container with headspace and/or outside of the method holding time and confirms the initial analysis.

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles</b>			<b>mg/kg</b>	<b>mg/kg</b>	
	<b>SW-846 8270D</b>				
10726	1-Methylnaphthalene	90-12-0	0.62	0.005	1
10726	2-Methylnaphthalene	91-57-6	1.4	0.014	1
10726	Naphthalene	91-20-3	0.70	0.009	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>			<b>mg/kg</b>	<b>mg/kg</b>	
	<b>ECY 97-602 NWTPH-Gx</b>				
02005	NWTPH-GX Soil C7-C12	n.a.	340	15	1191.34

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons</b>			<b>mg/kg</b>	<b>mg/kg</b>	
	<b>ECY 97-602 NWTPH-Dx modified</b>				
08272	Diesel Range Organics C12-C24	n.a.	20	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>			<b>mg/kg</b>	<b>mg/kg</b>	
	<b>SW-846 6010D Rev.4, July 2014</b>				
06955	Lead	7439-92-1	7.77	3.63	5

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Wet Chemistry</b>			<b>%</b>	<b>%</b>	
	<b>SM 2540 G-2011 %Moisture Calc</b>				
00111	Moisture	n.a.	28.7	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183252AA	11/22/2018 01:51	Patrick T Herres	58.37



**Sample Description:** RWB-2-S-27.5-181109 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896519  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/09/2018 12:20

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/09/2018 12:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/09/2018 12:20	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/09/2018 12:20	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 03:16	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 01:15	Jeremy C Giffin	1191.34
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/09/2018 12:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200053A	11/19/2018 11:03	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200053A	11/18/2018 00:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/23/2018 06:47	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** RWB-2-S-37-181109 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896520  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/09/2018 14:45

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.20	0.039	56.34
11995	1,2-Dibromoethane	106-93-4	N.D.	0.031	56.34
11995	1,2-Dichloroethane	107-06-2	N.D.	0.046	56.34
11995	Ethylbenzene	100-41-4	0.044	0.031	56.34
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.039	56.34
11995	Toluene	108-88-3	N.D.	0.046	56.34
11995	Xylene (Total)	1330-20-7	3.3	0.077	56.34
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.037	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.082	0.014	1
10726	Naphthalene	91-20-3	0.20	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	22	0.7	54.72
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	10.3	3.10	5
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	27.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183252AA	11/22/2018 02:15	Patrick T Herres	56.34
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/09/2018 14:45	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/09/2018 14:45	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 14:27	Linda M Hartenstine	1

**Sample Description:** RWB-2-S-37-181109 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896520  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35

**Collection Date/Time:** 11/09/2018 14:45

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 01:50	Jeremy C Giffin	54.72
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/09/2018 14:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200053A	11/19/2018 11:23	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200053A	11/18/2018 00:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/23/2018 06:55	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** RWB-2-S-48-181109 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896521  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/09/2018 16:05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	5.4	0.042	57.13
11995	1,2-Dibromoethane	106-93-4	N.D.	0.033	57.13
11995	1,2-Dichloroethane	107-06-2	0.26	0.050	57.13
11995	Ethylbenzene	100-41-4	0.88	0.033	57.13
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.042	57.13
11995	Toluene	108-88-3	2.2	0.050	57.13
11995	Xylene (Total)	1330-20-7	6.0	0.084	57.13
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	0.028	0.01	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	29	0.8	57.47
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	15	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.88	4.26	5
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	31.7	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183252AA	11/22/2018 02:39	Patrick T Herres	57.13
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/09/2018 16:05	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/09/2018 16:05	Client Supplied	1

**Sample Description:** RWB-2-S-48-181109 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896521  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35

**Collection Date/Time:** 11/09/2018 16:05

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/09/2018 16:05	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 14:51	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18325A34A	11/21/2018 22:11	Jeremy C Giffin	57.47
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/09/2018 16:05	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200053A	11/19/2018 11:42	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200053A	11/18/2018 00:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/23/2018 06:58	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** RWB-1-S-10.5-181110 Grab Soil  
**Facility# 96590**  
 232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896522  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 11:55

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.001	0.0005	1.02
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	1.02
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	1.02
11995	Ethylbenzene	100-41-4	N.D.	0.0004	1.02
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.02
11995	Toluene	108-88-3	0.001	0.0007	1.02
11995	Xylene (Total)	1330-20-7	N.D.	0.001	1.02
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.012	0.003	1
10726	2-Methylnaphthalene	91-57-6	0.014	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.2	23.99
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.2	1
08272	Heavy Range Organics C24-C40	n.a.	16	11	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.85	2.61	5
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	5.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	X183251AA	11/21/2018 19:38	Jennifer K Howe	1.02
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/10/2018 11:55	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/10/2018 11:55	Client Supplied	1

**Sample Description:** RWB-1-S-10.5-181110 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896522  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 11:55

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/10/2018 11:55	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 15:15	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18320A34A	11/16/2018 23:03	Jeremy C Giffin	23.99
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/10/2018 11:55	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200053A	11/19/2018 13:22	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200053A	11/18/2018 00:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/23/2018 07:00	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** RWB-1-S-14.5-181110 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896523  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 12:10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0004	0.87
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.87
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.87
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.87
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0004	0.87
11995	Toluene	108-88-3	N.D.	0.0005	0.87
11995	Xylene (Total)	1330-20-7	N.D.	0.0009	0.87
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	2.1	223.68
Reporting limits were raised due to sample foaming.					
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	20	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	19	10	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.76	2.62	5
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	3.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	X183251AA	11/21/2018 20:01	Jennifer K Howe	0.87
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/10/2018 12:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/10/2018 12:10	Client Supplied	1



**Sample Description:** RWB-1-S-14.5-181110 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896523  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 12:10

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/10/2018 12:10	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLC026	11/29/2018 15:40	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLC026	11/20/2018 21:00	Michelle A Newswanger	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18320A34A	11/16/2018 21:18	Jeremy C Giffin	223.68
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/10/2018 12:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200053A	11/19/2018 13:42	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200053A	11/18/2018 00:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/23/2018 07:03	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** RWB-1-S-17.5-181110 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896524  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 13:10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.074	110.07
11995	1,2-Dibromoethane	106-93-4	N.D.	0.059	110.07
11995	1,2-Dichloroethane	107-06-2	N.D.	0.089	110.07
11995	Ethylbenzene	100-41-4	N.D.	0.059	110.07
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.074	110.07
11995	Toluene	108-88-3	N.D.	0.089	110.07
11995	Xylene (Total)	1330-20-7	2.1	0.15	110.07
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.081	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.15	0.013	1
10726	Naphthalene	91-20-3	N.D.	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	1,800	65	5273.31
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	180	5.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	11.0	3.12	5
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	25.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183252AA	11/22/2018 03:04	Patrick T Herres	110.07
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/10/2018 13:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/10/2018 13:10	Client Supplied	1

**Sample Description:** RWB-1-S-17.5-181110 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896524  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 13:10

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/10/2018 13:10	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLG026	11/27/2018 23:04	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLG026	11/21/2018 08:00	David S Schrum	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 03:35	Jeremy C Giffin	5273.31
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/10/2018 13:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200053A	11/19/2018 12:02	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200053A	11/18/2018 00:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/23/2018 07:05	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** RWB-1-S-23-181110 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896525  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 13:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.47E	0.0007	0.96
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.96
11995	1,2-Dichloroethane	107-06-2	0.001	0.0008	0.96
11995	Ethylbenzene	100-41-4	0.22	0.0005	0.96
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0007	0.96
11995	Toluene	108-88-3	0.12	0.0008	0.96
11995	Xylene (Total)	1330-20-7	0.38	0.001	0.96
<p>The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated: benzene and ethylbenzene.</p> <p>The concentration reported for benzene is estimated since it exceeds the calibration range of the instrument. A further diluted analysis was performed from a previously opened container with headspace and/or outside of the method holding time and confirms the initial analysis.</p>					
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.024	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.050	0.014	1
10726	Naphthalene	91-20-3	0.058	0.009	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	11	0.4	28.61
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	10.7	2.91	5
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	28.4	0.50	1
<p>Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.</p>					

## Sample Comments

State of Washington Lab Certification No. C457

**Sample Description:** **RWB-1-S-23-181110 Grab Soil**  
**Facility# 96590**  
**232 E Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #: SW 9896525**  
**ELLE Group #: 2008697**  
**Matrix: Soil**

**Project Name:** **96590**

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 13:40

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	X183251AA	11/21/2018 20:24	Jennifer K Howe	0.96
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/10/2018 13:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/10/2018 13:40	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/10/2018 13:40	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLG026	11/27/2018 23:28	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLG026	11/21/2018 08:00	David S Schrum	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18320A34A	11/17/2018 02:33	Jeremy C Giffin	28.61
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/10/2018 13:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200053A	11/19/2018 12:22	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200053A	11/18/2018 00:00	David S Schrum	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/23/2018 07:08	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** RWB-1-S-33-181110 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896526  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/10/2018 14:50

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	2.7	0.41	578.26
11995	1,2-Dibromoethane	106-93-4	N.D.	0.33	578.26
11995	1,2-Dichloroethane	107-06-2	N.D.	0.49	578.26
11995	Ethylbenzene	100-41-4	95	0.33	578.26
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.41	578.26
11995	Toluene	108-88-3	24	0.49	578.26
11995	Xylene (Total)	1330-20-7	460	0.82	578.26
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	6.4	0.047	10
10726	2-Methylnaphthalene	91-57-6	15	0.14	10
10726	Naphthalene	91-20-3	19	0.095	10
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	23,000	370	28444.9
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	78	5.6	1
08272	Heavy Range Organics C24-C40	n.a.	15	14	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.79	4.18	5
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	29.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183252AA	11/22/2018 03:29	Patrick T Herres	578.26
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/10/2018 14:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/10/2018 14:50	Client Supplied	1

**Sample Description:** RWB-1-S-33-181110 Grab Soil  
**Facility# 96590**  
 232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896526  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 14:50

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/10/2018 14:50	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLG026	11/28/2018 18:04	Anthony P Bauer	10
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLG026	11/21/2018 08:00	David S Schrum	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 06:30	Jeremy C Giffin	28444.9
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/10/2018 14:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200062A	11/19/2018 07:25	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200062A	11/16/2018 23:35	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/23/2018 07:10	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** RWB-1-S-44-181110 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896527  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/10/2018 16:15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	4.6	0.038	57.4
11995	1,2-Dibromoethane	106-93-4	N.D.	0.030	57.4
11995	1,2-Dichloroethane	107-06-2	N.D.	0.045	57.4
11995	Ethylbenzene	100-41-4	1.3	0.030	57.4
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.038	57.4
11995	Toluene	108-88-3	2.6	0.045	57.4
11995	Xylene (Total)	1330-20-7	8.1	0.075	57.4
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.022	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.049	0.013	1
10726	Naphthalene	91-20-3	0.14	0.009	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	40	1.4	112.83
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.71	3.30	5
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	23.7	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

## Sample Comments

State of Washington Lab Certification No. C457

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183252AA	11/22/2018 03:53	Patrick T Herres	57.4
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/10/2018 16:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/10/2018 16:15	Client Supplied	1



**Sample Description:** RWB-1-S-44-181110 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896527  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 16:15

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/10/2018 16:15	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLG026	11/28/2018 00:16	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLG026	11/21/2018 08:00	David S Schrum	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 04:10	Jeremy C Giffin	112.83
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/10/2018 16:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200062A	11/19/2018 07:44	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200062A	11/16/2018 23:35	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/23/2018 07:13	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** RWB-1-S-49.5-181110 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896528  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/10/2018 16:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	4.4	0.041	59.23
11995	1,2-Dibromoethane	106-93-4	N.D.	0.033	59.23
11995	1,2-Dichloroethane	107-06-2	0.087	0.049	59.23
11995	Ethylbenzene	100-41-4	1.3	0.033	59.23
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.041	59.23
11995	Toluene	108-88-3	9.2	0.049	59.23
11995	Xylene (Total)	1330-20-7	10	0.082	59.23
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.005	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	0.15	0.009	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	57	1.5	115.45
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.43	0.737	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	28.0	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183252AA	11/22/2018 04:17	Patrick T Herres	59.23
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/10/2018 16:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/10/2018 16:30	Client Supplied	1

**Sample Description:** RWB-1-S-49.5-181110 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896528  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 16:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/10/2018 16:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLG026	11/28/2018 00:40	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLG026	11/21/2018 08:00	David S Schrum	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 04:45	Jeremy C Giffin	115.45
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/10/2018 16:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200062A	11/19/2018 08:04	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200062A	11/16/2018 23:35	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183181404902	11/17/2018 22:47	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183181404902	11/15/2018 05:35	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** DUP-2-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896529  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 16:45

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	6.2	0.040	58.95
11995	1,2-Dibromoethane	106-93-4	N.D.	0.032	58.95
11995	1,2-Dichloroethane	107-06-2	0.11	0.049	58.95
11995	Ethylbenzene	100-41-4	1.5	0.032	58.95
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.040	58.95
11995	Toluene	108-88-3	11	0.049	58.95
11995	Xylene (Total)	1330-20-7	12	0.081	58.95
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.006	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	0.18	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	83	3.6	286.02
The VOA soil weight is outside the acceptable weight range. See the VOA Prep Summary Sheet for the affected sample(s).					
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.57	0.722	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	27.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183252AA	11/22/2018 04:42	Patrick T Herres	58.95
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/10/2018 16:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/10/2018 16:45	Client Supplied	1

**Sample Description:** DUP-2-181108 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896529  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/10/2018 16:45

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/10/2018 16:45	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18324SLG026	11/28/2018 01:04	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18324SLG026	11/21/2018 08:00	David S Schrum	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 05:20	Jeremy C Giffin	286.02
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/10/2018 16:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183200062A	11/19/2018 09:04	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183200062A	11/16/2018 23:35	Karen L Beyer	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183181404902	11/17/2018 22:53	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183181404902	11/15/2018 05:35	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** UST-2-S-8-181106 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896530  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/06/2018 11:36

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0006	1.04
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	1.04
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	1.04
11995	Ethylbenzene	100-41-4	N.D.	0.0005	1.04
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	1.04
11995	Toluene	108-88-3	N.D.	0.0007	1.04
11995	Xylene (Total)	1330-20-7	N.D.	0.001	1.04
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
10726	Naphthalene	91-20-3	N.D.	0.008	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.3	30.76
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	1.84	0.660	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	13.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183233AA	11/20/2018 05:35	Patrick T Herres	1.04
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/06/2018 11:36	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/06/2018 11:36	Client Supplied	1

**Sample Description:** UST-2-S-8-181106 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896530  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/06/2018 11:36

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/06/2018 11:36	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18323SLD026	11/27/2018 15:00	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18323SLD026	11/19/2018 22:15	Karen L Beyer	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 12:24	Jeremy C Giffin	30.76
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/06/2018 11:36	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240018A	11/22/2018 03:45	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183240018A	11/20/2018 18:58	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/17/2018 18:16	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** QA-5-T-181111 NA Water  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** WW 9896531  
**ELLE Group #:** 2008697  
**Matrix:** Water

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/11/2018 12:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	Z183182AA	11/14/2018 16:05	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183182AA	11/14/2018 16:04	Alexander D Sechrist	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18324B20A	11/20/2018 19:43	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18324B20A	11/20/2018 19:42	Linda C Pape	1



**Sample Description:** QA-6-T-181111 NA Water  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** WW 9896532  
**ELLE Group #:** 2008697  
**Matrix:** Water

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/11/2018 12:05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	Z183182AA	11/14/2018 16:30	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183182AA	11/14/2018 16:29	Alexander D Sechrist	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18324B20A	11/20/2018 20:11	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18324B20A	11/20/2018 20:10	Linda C Pape	1

**Sample Description:** QA-7-T-181111 NA Water  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** WW 9896533  
**ELLE Group #:** 2008697  
**Matrix:** Water

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/11/2018 12:10

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	Z183182AA	11/14/2018 16:54	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183182AA	11/14/2018 16:53	Alexander D Sechrist	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18324B20A	11/20/2018 20:39	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18324B20A	11/20/2018 20:38	Linda C Pape	1

**Sample Description:** UST-3-S-8-181106 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9896534  
ELLE Group #: 2008697  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35  
Collection Date/Time: 11/06/2018 14:05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0006	1.05
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	1.05
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	1.05
11995	Ethylbenzene	100-41-4	N.D.	0.0005	1.05
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	1.05
11995	Toluene	108-88-3	0.0008	0.0007	1.05
11995	Xylene (Total)	1330-20-7	N.D.	0.001	1.05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
10726	Naphthalene	91-20-3	N.D.	0.008	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:  
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.4	34.73

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	12	4.6	1
08272	Heavy Range Organics C24-C40	n.a.	53	12	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.89	2.42	5

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	13.9	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183233AA	11/20/2018 05:58	Patrick T Herres	1.05
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201831851912	11/06/2018 14:05	Client Supplied	1

**Sample Description:** UST-3-S-8-181106 Grab Soil  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9896534  
**ELLE Group #:** 2008697  
**Matrix:** Soil

**Project Name:** 96590

Submittal Date/Time: 11/13/2018 09:35

Collection Date/Time: 11/06/2018 14:05

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201831851912	11/06/2018 14:05	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201831851912	11/06/2018 14:05	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18323SLD026	11/27/2018 15:25	Edward C Monborne	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18323SLD026	11/19/2018 22:15	Karen L Beyer	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18319A34A	11/16/2018 12:59	Jeremy C Giffin	34.73
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201831851912	11/06/2018 14:05	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240018A	11/30/2018 06:40	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183240018A	11/20/2018 18:58	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183191404901	11/23/2018 07:18	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183191404901	11/16/2018 05:30	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18324820003A	11/20/2018 12:00	Larry E Bevins	1

**Sample Description:** QA-8-T-181111 NA Water  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** WW 9896535  
**ELLE Group #:** 2008697  
**Matrix:** Water

**Project Name:** 96590

**Submission Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/11/2018 12:15

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	Z183182AA	11/14/2018 17:18	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183182AA	11/14/2018 17:17	Alexander D Sechrist	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18324B20A	11/20/2018 21:06	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18324B20A	11/20/2018 21:05	Linda C Pape	1

**Sample Description:** QA-9-T-181111 NA Water  
Facility# 96590  
232 E Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** WW 9896536  
**ELLE Group #:** 2008697  
**Matrix:** Water

**Project Name:** 96590

**Submittal Date/Time:** 11/13/2018 09:35  
**Collection Date/Time:** 11/11/2018 12:20

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and no target analytes were detected, the data is reported.

CAT No.	Analysis Name	Method	Result	Detection Limit	Dilution Factor
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	Z183182AA	11/14/2018 17:42	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183182AA	11/14/2018 17:41	Alexander D Sechrist	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18324B20A	11/20/2018 21:34	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18324B20A	11/20/2018 21:33	Linda C Pape	1

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result mg/kg	MDL mg/kg
Batch number: A183233AA	Sample number(s): 9896530,9896534	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
Batch number: A183241AA	Sample number(s): 9896496-9896500,9896502-9896503,9896513	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
Batch number: A183251AA	Sample number(s): 9896506,9896509,9896514	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
Batch number: A183303AA	Sample number(s): 9896510	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
Batch number: Q183241AA	Sample number(s): 9896501,9896504-9896505	
Benzene	N.D.	0.025
1,2-Dibromoethane	N.D.	0.020
1,2-Dichloroethane	N.D.	0.030
Ethylbenzene	N.D.	0.020

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Method Blank (continued)

Analysis Name	Result	MDL
	mg/kg	mg/kg
Methyl Tertiary Butyl Ether	N.D.	0.025
Toluene	N.D.	0.030
Xylene (Total)	N.D.	0.050
Batch number: Q183251AA	Sample number(s): 9896506,9896512	
Acetone	N.D.	0.30
Benzene	N.D.	0.025
Bromobenzene	N.D.	0.020
Bromochloromethane	N.D.	0.030
Bromodichloromethane	N.D.	0.020
Bromoform	N.D.	0.25
Bromomethane	N.D.	0.035
2-Butanone	N.D.	0.050
n-Butylbenzene	N.D.	0.15
sec-Butylbenzene	N.D.	0.10
tert-Butylbenzene	N.D.	0.040
Carbon Disulfide	N.D.	0.030
Carbon Tetrachloride	N.D.	0.025
Chlorobenzene	N.D.	0.025
Chloroethane	N.D.	0.050
Chloroform	N.D.	0.030
Chloromethane	N.D.	0.030
2-Chlorotoluene	N.D.	0.020
4-Chlorotoluene	N.D.	0.020
1,2-Dibromo-3-chloropropane	N.D.	0.020
Dibromochloromethane	N.D.	0.020
1,2-Dibromoethane	N.D.	0.020
Dibromomethane	N.D.	0.025
1,2-Dichlorobenzene	N.D.	0.025
1,3-Dichlorobenzene	N.D.	0.025
1,4-Dichlorobenzene	N.D.	0.020
Dichlorodifluoromethane	N.D.	0.030
1,1-Dichloroethane	N.D.	0.025
1,2-Dichloroethane	N.D.	0.030
1,1-Dichloroethene	N.D.	0.025
cis-1,2-Dichloroethene	N.D.	0.025
trans-1,2-Dichloroethene	N.D.	0.025
1,2-Dichloropropane	N.D.	0.025
1,3-Dichloropropane	N.D.	0.020
2,2-Dichloropropane	N.D.	0.025
1,1-Dichloropropene	N.D.	0.025
cis-1,3-Dichloropropene	N.D.	0.020
trans-1,3-Dichloropropene	N.D.	0.015
Ethylbenzene	N.D.	0.020
Hexachlorobutadiene	N.D.	0.25

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Method Blank (continued)

Analysis Name	Result	MDL
	mg/kg	mg/kg
2-Hexanone	N.D.	0.050
Isopropylbenzene	N.D.	0.020
p-Isopropyltoluene	N.D.	0.10
Methyl Tertiary Butyl Ether	N.D.	0.025
4-Methyl-2-pentanone	N.D.	0.050
Methylene Chloride	N.D.	0.10
Naphthalene	N.D.	0.10
n-Propylbenzene	N.D.	0.020
Styrene	N.D.	0.015
1,1,1,2-Tetrachloroethane	N.D.	0.025
1,1,2,2-Tetrachloroethane	N.D.	0.020
Tetrachloroethene	N.D.	0.025
Toluene	N.D.	0.030
1,2,3-Trichlorobenzene	N.D.	0.25
1,2,4-Trichlorobenzene	N.D.	0.25
1,1,1-Trichloroethane	N.D.	0.030
1,1,2-Trichloroethane	N.D.	0.025
Trichloroethene	N.D.	0.025
Trichlorofluoromethane	N.D.	0.035
1,2,3-Trichloropropane	N.D.	0.030
1,2,4-Trimethylbenzene	N.D.	0.025
1,3,5-Trimethylbenzene	N.D.	0.025
Vinyl Chloride	N.D.	0.030
m+p-Xylene	N.D.	0.050
o-Xylene	N.D.	0.020
Xylene (Total)	N.D.	0.050
Batch number: R183252AA	Sample number(s): 9896508,9896511,9896519-9896521,9896524,9896526-9896529	
Benzene	N.D.	0.025
1,2-Dibromoethane	N.D.	0.020
1,2-Dichloroethane	N.D.	0.030
Ethylbenzene	N.D.	0.020
Methyl Tertiary Butyl Ether	N.D.	0.025
Toluene	N.D.	0.030
Xylene (Total)	N.D.	0.050
Batch number: X183251AA	Sample number(s): 9896515-9896516,9896518,9896522-9896523,9896525	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
	<b>ug/l</b>	<b>ug/l</b>

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: F183251AA	Sample number(s): 9896507	
Benzene	N.D.	0.2
1,2-Dibromoethane	N.D.	0.2
1,2-Dichloroethane	N.D.	0.3
Ethylbenzene	N.D.	0.4
Methyl Tertiary Butyl Ether	N.D.	0.2
Toluene	N.D.	0.2
Xylene (Total)	N.D.	1
Batch number: W183233AA	Sample number(s): 9896517	
Acetone	N.D.	0.7
Benzene	N.D.	0.2
Bromobenzene	N.D.	0.2
Bromochloromethane	N.D.	0.2
Bromodichloromethane	N.D.	0.2
Bromoform	N.D.	0.2
Bromomethane	N.D.	0.3
2-Butanone	N.D.	0.3
n-Butylbenzene	N.D.	0.2
sec-Butylbenzene	N.D.	0.2
tert-Butylbenzene	N.D.	0.3
Carbon Disulfide	N.D.	0.2
Carbon Tetrachloride	N.D.	0.2
Chlorobenzene	N.D.	0.2
Chloroethane	N.D.	0.2
Chloroform	N.D.	0.2
Chloromethane	N.D.	0.2
2-Chlorotoluene	N.D.	0.2
4-Chlorotoluene	N.D.	0.2
1,2-Dibromo-3-chloropropane	N.D.	0.3
Dibromochloromethane	N.D.	0.2
1,2-Dibromoethane	N.D.	0.2
Dibromomethane	N.D.	0.2
1,2-Dichlorobenzene	N.D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	0.2
1,1-Dichloroethane	N.D.	0.2
1,2-Dichloroethane	N.D.	0.3
1,1-Dichloroethene	N.D.	0.2
cis-1,2-Dichloroethene	N.D.	0.2
trans-1,2-Dichloroethene	N.D.	0.2
1,2-Dichloropropane	N.D.	0.2
1,3-Dichloropropane	N.D.	0.2
2,2-Dichloropropane	N.D.	0.3

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
1,1-Dichloropropene	N.D.	0.2
cis-1,3-Dichloropropene	N.D.	0.2
trans-1,3-Dichloropropene	N.D.	0.2
Ethylbenzene	N.D.	0.4
Hexachlorobutadiene	N.D.	0.7
2-Hexanone	N.D.	0.3
Isopropylbenzene	N.D.	0.2
p-Isopropyltoluene	N.D.	0.2
Methyl Tertiary Butyl Ether	N.D.	0.2
4-Methyl-2-pentanone	N.D.	0.5
Methylene Chloride	N.D.	0.3
Naphthalene	N.D.	1
n-Propylbenzene	N.D.	0.2
Styrene	N.D.	0.2
1,1,1,2-Tetrachloroethane	N.D.	0.2
1,1,2,2-Tetrachloroethane	N.D.	0.2
Tetrachloroethene	N.D.	0.2
Toluene	N.D.	0.2
1,2,3-Trichlorobenzene	N.D.	0.4
1,2,4-Trichlorobenzene	N.D.	0.3
1,1,1-Trichloroethane	N.D.	0.3
1,1,2-Trichloroethane	N.D.	0.2
Trichloroethene	N.D.	0.2
Trichlorofluoromethane	N.D.	0.2
1,2,3-Trichloropropane	N.D.	0.2
1,2,4-Trimethylbenzene	N.D.	1
1,3,5-Trimethylbenzene	N.D.	0.3
Vinyl Chloride	N.D.	0.2
m+p-Xylene	N.D.	1
o-Xylene	N.D.	0.4
Xylene (Total)	N.D.	1
Batch number: Z183182AA	Sample number(s): 9896531-9896533,9896535-9896536	
Benzene	N.D.	0.2
Ethylbenzene	N.D.	0.4
Methyl Tertiary Butyl Ether	N.D.	0.2
Toluene	N.D.	0.2
Xylene (Total)	N.D.	1
	<b>mg/kg</b>	<b>mg/kg</b>
Batch number: 18323SLD026	Sample number(s): 9896496-9896499,9896530,9896534	
1-Methylnaphthalene	N.D.	0.003
2-Methylnaphthalene	N.D.	0.010
Naphthalene	N.D.	0.007
Batch number: 18323SLG026	Sample number(s): 9896500,9896511	

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Method Blank (continued)

Analysis Name	Result	MDL
	mg/kg	mg/kg
1-Methylnaphthalene	N.D.	0.003
2-Methylnaphthalene	N.D.	0.010
Naphthalene	N.D.	0.007
Batch number: 18324SLC026	Sample number(s): 9896501-9896506,9896508-9896510,9896512-9896516,9896518-9896523	
1-Methylnaphthalene	N.D.	0.003
2-Methylnaphthalene	N.D.	0.010
Naphthalene	N.D.	0.007
Batch number: 18324SLG026	Sample number(s): 9896524-9896529	
1-Methylnaphthalene	N.D.	0.003
2-Methylnaphthalene	N.D.	0.010
Naphthalene	N.D.	0.007
Batch number: 18319A34A	Sample number(s): 9896496-9896503,9896505-9896506,9896508-9896511,9896513-9896514,9896530,9896534	
NWTPH-GX Soil C7-C12	N.D.	0.2
Batch number: 18320A34A	Sample number(s): 9896515-9896516,9896518,9896522-9896523,9896525	
NWTPH-GX Soil C7-C12	N.D.	0.2
Batch number: 18324A34A	Sample number(s): 9896504,9896512,9896519-9896520,9896524,9896526-9896529	
NWTPH-GX Soil C7-C12	N.D.	0.2
Batch number: 18325A34A	Sample number(s): 9896521	
NWTPH-GX Soil C7-C12	N.D.	0.2
	<b>ug/l</b>	<b>ug/l</b>
Batch number: 18324B20A	Sample number(s): 9896507,9896517,9896531-9896533,9896535-9896536	
NWTPH-Gx water C7-C12	N.D.	19
	<b>mg/kg</b>	<b>mg/kg</b>
Batch number: 183190002A	Sample number(s): 9896496-9896503	
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183190003A	Sample number(s): 9896505-9896506,9896508-9896511,9896513-9896514,9896516	
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183200053A	Sample number(s): 9896515,9896518-9896525	
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183200062A	Sample number(s): 9896526-9896529	
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183240018A	Sample number(s): 9896504,9896512,9896530,9896534	
Diesel Range Organics C12-C24	N.D.	4.0

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Method Blank (continued)

Analysis Name	Result	MDL
Heavy Range Organics C24-C40	N.D.	10
	<b>ug/l</b>	<b>ug/l</b>
Batch number: 183240044A	Sample number(s): 9896517	
DX DRO C12-C24	N.D.	45
DX HRO C24-C40	N.D.	100
	<b>mg/kg</b>	<b>mg/kg</b>
Batch number: 183181404902	Sample number(s): 9896528-9896529	
Lead	N.D.	0.600
Batch number: 183191404901	Sample number(s): 9896518-9896527,9896530,9896534	
Lead	N.D.	0.600
Batch number: 183201404904	Sample number(s): 9896496-9896506,9896508-9896516	
Lead	N.D.	0.600
	<b>ug/l</b>	<b>ug/l</b>
Batch number: 183201404402	Sample number(s): 9896517	
Lead	N.D.	7.1

### LCS/LCSD

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A183233AA	Sample number(s): 9896530,9896534								
Benzene	0.0200	0.0199	0.0200	0.0198	99	99	80-120	0	30
1,2-Dibromoethane	0.0200	0.0194	0.0200	0.0193	97	97	76-120	1	30
1,2-Dichloroethane	0.0200	0.0218	0.0200	0.0213	109	106	71-128	2	30
Ethylbenzene	0.0200	0.0192	0.0200	0.0190	96	95	78-120	1	30
Methyl Tertiary Butyl Ether	0.0200	0.0167	0.0200	0.0170	83	85	72-120	2	30
Toluene	0.0200	0.0190	0.0200	0.0191	95	96	80-120	1	30
Xylene (Total)	0.0600	0.0563	0.0600	0.0563	94	94	75-120	0	30
Batch number: A183241AA	Sample number(s): 9896496-9896500,9896502-9896503,9896513								
Benzene	0.0200	0.0198	0.0200	0.0195	99	98	80-120	1	30
1,2-Dibromoethane	0.0200	0.0197	0.0200	0.0191	98	96	76-120	3	30
1,2-Dichloroethane	0.0200	0.0216	0.0200	0.0210	108	105	71-128	3	30
Ethylbenzene	0.0200	0.0190	0.0200	0.0189	95	95	78-120	1	30
Methyl Tertiary Butyl Ether	0.0200	0.0177	0.0200	0.0177	89	88	72-120	0	30
Toluene	0.0200	0.0190	0.0200	0.0188	95	94	80-120	1	30
Xylene (Total)	0.0600	0.0558	0.0600	0.0555	93	92	75-120	1	30

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A183251AA	Sample number(s): 9896506,9896509,9896514								
Benzene	0.0200	0.0204	0.0200	0.0201	102	101	80-120	1	30
1,2-Dibromoethane	0.0200	0.0196	0.0200	0.0198	98	99	76-120	1	30
1,2-Dichloroethane	0.0200	0.0216	0.0200	0.0213	108	106	71-128	1	30
Ethylbenzene	0.0200	0.0200	0.0200	0.0196	100	98	78-120	2	30
Methyl Tertiary Butyl Ether	0.0200	0.0167	0.0200	0.0172	83	86	72-120	3	30
Toluene	0.0200	0.0196	0.0200	0.0194	98	97	80-120	1	30
Xylene (Total)	0.0600	0.0582	0.0600	0.0575	97	96	75-120	1	30
Batch number: A183303AA	Sample number(s): 9896510								
Benzene	0.0200	0.0194	0.0200	0.0199	97	99	80-120	2	30
1,2-Dibromoethane	0.0200	0.0192	0.0200	0.0196	96	98	76-120	2	30
1,2-Dichloroethane	0.0200	0.0213	0.0200	0.0215	106	107	71-128	1	30
Ethylbenzene	0.0200	0.0187	0.0200	0.0191	94	96	78-120	2	30
Methyl Tertiary Butyl Ether	0.0200	0.0164	0.0200	0.0170	82	85	72-120	4	30
Toluene	0.0200	0.0186	0.0200	0.0190	93	95	80-120	2	30
Xylene (Total)	0.0600	0.0551	0.0600	0.0564	92	94	75-120	2	30
Batch number: Q183241AA	Sample number(s): 9896501,9896504-9896505								
Benzene	1.00	1.16	1.00	1.07	116	107	80-120	8	30
1,2-Dibromoethane	1.00	1.16	1.00	1.03	116	103	76-120	12	30
1,2-Dichloroethane	1.00	1.29	1.00	1.18	129*	118	71-128	9	30
Ethylbenzene	1.00	1.14	1.00	1.05	114	105	78-120	8	30
Methyl Tertiary Butyl Ether	1.00	1.08	1.00	0.993	108	99	72-120	8	30
Toluene	1.00	1.17	1.00	1.06	117	106	80-120	9	30
Xylene (Total)	3.00	3.30	3.00	3.01	110	100	75-120	9	30
Batch number: Q183251AA	Sample number(s): 9896506,9896512								
Acetone	7.50	5.48	7.50	5.26	73	70	41-150	4	30
Benzene	1.00	1.07	1.00	1.07	107	107	80-120	0	30
Bromobenzene	1.00	0.934	1.00	0.976	93	98	78-120	4	30
Bromochloromethane	1.00	0.856	1.00	0.881	86	88	72-124	3	30
Bromodichloromethane	1.00	1.17	1.00	1.18	117	118	70-120	1	30
Bromoform	1.00	1.01	1.00	1.04	101	104	51-127	2	30
Bromomethane	1.00	0.896	1.00	0.938	90	94	45-140	5	30
2-Butanone	7.50	6.24	7.50	5.88	83	78	57-128	6	30
n-Butylbenzene	1.00	1.12	1.00	1.13	112	113	71-121	0	30
sec-Butylbenzene	1.00	1.12	1.00	1.12	112	112	72-120	0	30
tert-Butylbenzene	1.00	1.04	1.00	1.03	104	103	68-120	1	30
Carbon Disulfide	1.00	0.948	1.00	0.973	95	97	64-133	3	30
Carbon Tetrachloride	1.00	1.18	1.00	1.20	118	120	64-134	1	30
Chlorobenzene	1.00	0.994	1.00	1.00	99	100	80-120	1	30
Chloroethane	1.00	0.816	1.00	0.828	82	83	43-135	1	30
Chloroform	1.00	1.10	1.00	1.11	110	111	80-120	1	30
Chloromethane	1.00	0.793	1.00	0.792	79	79	56-120	0	30

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chlorotoluene	1.00	1.05	1.00	1.05	105	105	75-120	1	30
4-Chlorotoluene	1.00	1.02	1.00	1.05	102	105	75-120	3	30
1,2-Dibromo-3-chloropropane	1.00	1.09	1.00	1.12	109	112	48-134	3	30
Dibromochloromethane	1.00	1.17	1.00	1.17	117	117	69-125	0	30
1,2-Dibromoethane	1.00	1.03	1.00	1.02	103	102	76-120	1	30
Dibromomethane	1.00	1.05	1.00	1.06	105	106	80-120	1	30
1,2-Dichlorobenzene	1.00	0.977	1.00	0.982	98	98	76-120	1	30
1,3-Dichlorobenzene	1.00	0.987	1.00	1.01	99	101	75-120	2	30
1,4-Dichlorobenzene	1.00	0.974	1.00	0.964	97	96	80-120	1	30
Dichlorodifluoromethane	1.00	0.773	1.00	0.759	77	76	21-127	2	30
1,1-Dichloroethane	1.00	1.09	1.00	1.10	109	110	79-120	1	30
1,2-Dichloroethane	1.00	1.18	1.00	1.18	118	118	71-128	1	30
1,1-Dichloroethene	1.00	1.00	1.00	1.06	100	106	73-129	6	30
cis-1,2-Dichloroethene	1.00	1.06	1.00	1.04	106	104	80-123	1	30
trans-1,2-Dichloroethene	1.00	1.04	1.00	1.07	104	107	80-125	3	30
1,2-Dichloropropane	1.00	1.06	1.00	1.08	106	108	80-120	2	30
1,3-Dichloropropane	1.00	1.09	1.00	1.09	109	109	79-120	0	30
2,2-Dichloropropane	1.00	1.10	1.00	1.11	110	111	69-131	1	30
1,1-Dichloropropene	1.00	1.10	1.00	1.10	110	110	74-120	1	30
cis-1,3-Dichloropropene	1.00	1.10	1.00	1.14	110	114	66-120	3	30
trans-1,3-Dichloropropene	1.00	1.14	1.00	1.13	114	113	68-122	1	30
Ethylbenzene	1.00	1.05	1.00	1.04	105	104	78-120	1	30
Hexachlorobutadiene	1.00	1.22	1.00	1.25	122	125	62-131	2	30
2-Hexanone	5.00	6.14	5.00	6.29	123	126	54-140	2	30
Isopropylbenzene	1.00	1.08	1.00	1.07	108	107	77-120	1	30
p-Isopropyltoluene	1.00	1.07	1.00	1.07	107	107	72-120	0	30
Methyl Tertiary Butyl Ether	1.00	1.00	1.00	1.04	100	104	72-120	4	30
4-Methyl-2-pentanone	5.00	5.40	5.00	5.57	108	111	67-128	3	30
Methylene Chloride	1.00	1.05	1.00	1.10	105	110	76-122	5	30
Naphthalene	1.00	1.03	1.00	1.00	103	100	48-130	2	30
n-Propylbenzene	1.00	1.14	1.00	1.14	114	114	72-123	0	30
Styrene	1.00	0.952	1.00	0.964	95	96	76-120	1	30
1,1,1,2-Tetrachloroethane	1.00	1.08	1.00	1.07	108	107	73-120	0	30
1,1,1,2,2-Tetrachloroethane	1.00	1.00	1.00	1.07	100	107	69-125	6	30
Tetrachloroethene	1.00	0.961	1.00	0.977	96	98	73-120	2	30
Toluene	1.00	1.06	1.00	1.07	106	107	80-120	1	30
1,2,3-Trichlorobenzene	1.00	1.18	1.00	1.13	118	113	57-131	4	30
1,2,4-Trichlorobenzene	1.00	1.51	1.00	1.44	151*	144*	56-130	5	30
1,1,1-Trichloroethane	1.00	1.12	1.00	1.14	112	114	69-123	2	30
1,1,2-Trichloroethane	1.00	1.07	1.00	1.09	107	109	80-120	2	30
Trichloroethene	1.00	1.04	1.00	1.07	104	107	80-120	3	30
Trichlorofluoromethane	1.00	0.731	1.00	0.746	73	75	55-134	2	30
1,2,3-Trichloropropane	1.00	1.05	1.00	1.06	105	106	75-125	1	30
1,2,4-Trimethylbenzene	1.00	1.07	1.00	1.09	107	109	73-120	2	30

\*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trimethylbenzene	1.00	1.09	1.00	1.11	109	111	73-120	1	30
Vinyl Chloride	1.00	0.752	1.00	0.761	75	76	52-120	1	30
m+p-Xylene	2.00	2.02	2.00	2.01	101	101	80-120	0	30
o-Xylene	1.00	0.997	1.00	1.00	100	100	75-120	1	30
Xylene (Total)	3.00	3.01	3.00	3.02	100	101	75-120	0	30
Batch number: R183252AA	Sample number(s): 9896508,9896511,9896519-9896521,9896524,9896526-9896529								
Benzene	1.00	1.08	1.00	1.10	108	110	80-120	2	30
1,2-Dibromoethane	1.00	1.07	1.00	1.09	107	109	76-120	1	30
1,2-Dichloroethane	1.00	1.12	1.00	1.14	112	114	71-128	2	30
Ethylbenzene	1.00	1.06	1.00	1.11	106	111	78-120	5	30
Methyl Tertiary Butyl Ether	1.00	1.22	1.00	1.07	122*	107	72-120	14	30
Toluene	1.00	1.12	1.00	1.10	112	110	80-120	2	30
Xylene (Total)	3.00	3.25	3.00	3.43	108	114	75-120	5	30
Batch number: X183251AA	Sample number(s): 9896515-9896516,9896518,9896522-9896523,9896525								
Benzene	0.0200	0.0224	0.0200	0.0227	112	113	80-120	1	30
1,2-Dibromoethane	0.0200	0.0221	0.0200	0.0222	111	111	76-120	0	30
1,2-Dichloroethane	0.0200	0.0203	0.0200	0.0199	101	100	71-128	2	30
Ethylbenzene	0.0200	0.0235	0.0200	0.0238	117	119	78-120	1	30
Methyl Tertiary Butyl Ether	0.0200	0.0194	0.0200	0.0193	97	97	72-120	1	30
Toluene	0.0200	0.0233	0.0200	0.0234	116	117	80-120	1	30
Xylene (Total)	0.0600	0.0691	0.0600	0.0695	115	116	75-120	1	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: F183251AA	Sample number(s): 9896507								
Benzene	20	22.24			111		80-120		
1,2-Dibromoethane	20	20.75			104		77-120		
1,2-Dichloroethane	20	17.74			89		73-124		
Ethylbenzene	20	21.3			107		80-120		
Methyl Tertiary Butyl Ether	20	20.68			103		69-122		
Toluene	20	22.15			111		80-120		
Xylene (Total)	60	63.74			106		80-120		
Batch number: W183233AA	Sample number(s): 9896517								
Acetone	150	166.11			111		54-157		
Benzene	20	21.28			106		80-120		
Bromobenzene	20	22.5			113		80-120		
Bromochloromethane	20	18.98			95		80-120		
Bromodichloromethane	20	18.14			91		71-120		
Bromoform	20	18.6			93		51-120		
Bromomethane	20	13.9			69		53-128		
2-Butanone	150	147.62			98		59-135		
n-Butylbenzene	20	23.12			116		76-120		
sec-Butylbenzene	20	24.07			120		77-120		

\*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
tert-Butylbenzene	20	23.64			118		78-120		
Carbon Disulfide	20	21.9			109		65-128		
Carbon Tetrachloride	20	19.5			98		64-134		
Chlorobenzene	20	22.25			111		80-120		
Chloroethane	20	15.1			76		55-123		
Chloroform	20	19.03			95		80-120		
Chloromethane	20	15.64			78		56-121		
2-Chlorotoluene	20	23.19			116		80-120		
4-Chlorotoluene	20	22.88			114		80-120		
1,2-Dibromo-3-chloropropane	20	17.99			90		47-131		
Dibromochloromethane	20	20.28			101		71-120		
1,2-Dibromoethane	20	21.14			106		77-120		
Dibromomethane	20	19.34			97		80-120		
1,2-Dichlorobenzene	20	22.42			112		80-120		
1,3-Dichlorobenzene	20	22.84			114		80-120		
1,4-Dichlorobenzene	20	23.3			117		80-120		
Dichlorodifluoromethane	20	11.83			59		41-127		
1,1-Dichloroethane	20	20.42			102		80-120		
1,2-Dichloroethane	20	17.14			86		73-124		
1,1-Dichloroethene	20	21.85			109		80-131		
cis-1,2-Dichloroethene	20	21.92			110		80-120		
trans-1,2-Dichloroethene	20	21.85			109		80-120		
1,2-Dichloropropane	20	21.74			109		80-120		
1,3-Dichloropropane	20	21.86			109		80-120		
2,2-Dichloropropane	20	17.5			87		55-142		
1,1-Dichloropropene	20	20.49			102		78-120		
cis-1,3-Dichloropropene	20	19.12			96		75-120		
trans-1,3-Dichloropropene	20	18.83			94		67-120		
Ethylbenzene	20	22.16			111		80-120		
Hexachlorobutadiene	20	19.72			99		63-120		
2-Hexanone	100	97.43			97		56-135		
Isopropylbenzene	20	22.45			112		80-120		
p-Isopropyltoluene	20	23.82			119		76-120		
Methyl Tertiary Butyl Ether	20	20.03			100		69-122		
4-Methyl-2-pentanone	100	96.04			96		62-133		
Methylene Chloride	20	22.01			110		80-120		
Naphthalene	20	22.12			111		53-124		
n-Propylbenzene	20	24.12			121		79-121		
Styrene	20	21.38			107		80-120		
1,1,1,2-Tetrachloroethane	20	20.45			102		78-120		
1,1,1,2,2-Tetrachloroethane	20	22.18			111		72-120		
Tetrachloroethene	20	21.93			110		80-120		
Toluene	20	22.38			112		80-120		
1,2,3-Trichlorobenzene	20	23.16			116		66-120		

\*- Outside of specification

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## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,4-Trichlorobenzene	20	23.11			116		63-120		
1,1,1-Trichloroethane	20	17.14			86		67-126		
1,1,2-Trichloroethane	20	22.6			113		80-120		
Trichloroethene	20	19.57			98		80-120		
Trichlorofluoromethane	20	12.37			62		55-135		
1,2,3-Trichloropropane	20	21.67			108		75-124		
1,2,4-Trimethylbenzene	20	22.95			115		75-120		
1,3,5-Trimethylbenzene	20	23.13			116		75-120		
Vinyl Chloride	20	16.2			81		56-120		
m+p-Xylene	40	44.48			111		80-120		
o-Xylene	20	22.13			111		80-120		
Xylene (Total)	60	66.61			111		80-120		
Batch number: Z183182AA	Sample number(s): 9896531-9896533,9896535-9896536								
Benzene	20	21.81			109		80-120		
Ethylbenzene	20	19.89			99		80-120		
Methyl Tertiary Butyl Ether	20	20.5			103		69-122		
Toluene	20	21.66			108		80-120		
Xylene (Total)	60	61.54			103		80-120		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 18323SLD026	Sample number(s): 9896496-9896499,9896530,9896534								
1-Methylnaphthalene	1.67	1.59			96		81-117		
2-Methylnaphthalene	1.67	1.64			98		80-111		
Naphthalene	1.67	1.55			93		81-111		
Batch number: 18323SLG026	Sample number(s): 9896500,9896511								
1-Methylnaphthalene	1.67	1.42			85		81-117		
2-Methylnaphthalene	1.67	1.45			87		80-111		
Naphthalene	1.67	1.39			84		81-111		
Batch number: 18324SLC026	Sample number(s): 9896501-9896506,9896508-9896510,9896512-9896516,9896518-9896523								
1-Methylnaphthalene	1.67	1.59			95		81-117		
2-Methylnaphthalene	1.67	1.59			95		80-111		
Naphthalene	1.67	1.51			91		81-111		
Batch number: 18324SLG026	Sample number(s): 9896524-9896529								
1-Methylnaphthalene	1.67	1.61			97		81-117		
2-Methylnaphthalene	1.67	1.60			96		80-111		
Naphthalene	1.67	1.55			93		81-111		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 18319A34A	Sample number(s): 9896496-9896503,9896505-9896506,9896508-9896511,9896513-9896514,9896530,9896534								
NWTPH-GX Soil C7-C12	11	10.0	11	10.76	91	98	55-145	7	30

\*- Outside of specification

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## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 18320A34A NWTPH-GX Soil C7-C12	11	10.29	11	10.15	94	92	55-145	1	30
Batch number: 18324A34A NWTPH-GX Soil C7-C12	11	10.17	11	9.22	92	84	55-145	10	30
Batch number: 18325A34A NWTPH-GX Soil C7-C12	11	7.82	11	8.32	71	76	55-145	6	30
Batch number: 18324B20A NWTPH-Gx water C7-C12	1100	1224.9	1100	1212.13	111	110	64-131	1	30
Batch number: 183190002A Diesel Range Organics C12-C24	133.36	106.64			80		61-115		
Batch number: 183190003A Diesel Range Organics C12-C24	133.36	108.14			81		61-115		
Batch number: 183200053A Diesel Range Organics C12-C24	133.36	103.26	133.36	101.81	77	76	61-115	1	20
Batch number: 183200062A Diesel Range Organics C12-C24	133.36	99.93			75		61-115		
Batch number: 183240018A Diesel Range Organics C12-C24	133.36	107.96			81		61-115		
Batch number: 183240044A DX DRO C12-C24	600.14	360.48	600.14	311.85	60	52	11-115	14	20
Batch number: 183181404902 Lead	15	15.47			103		90-115		
Batch number: 183191404901 Lead	15	14.76			98		90-115		
Batch number: 183201404904 Lead	15	15.45			103		90-115		
Batch number: 183201404402 Lead	150	161.12			107		87-113		

\*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added %	LCS Conc %	LCSD Spike Added %	LCSD Conc %	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 18324820002A Moisture	Sample number(s): 9896496-9896505				100		99-101		
	89.5	89.41							
Batch number: 18324820002B Moisture	Sample number(s): 9896506,9896508-9896516				100		99-101		
	89.5	89.41							
Batch number: 18324820003A Moisture	Sample number(s): 9896518-9896530,9896534				100		99-101		
	89.5	89.43							

### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: W183233AA	Sample number(s): 9896517 UNSPK: 9896517									
Acetone	0.906	150	160.75	150	161.88	107	107	54-157	1	30
Benzene	N.D.	20	23.18	20	23.13	116	116	80-120	0	30
Bromobenzene	N.D.	20	23.76	20	23.92	119	120	80-120	1	30
Bromochloromethane	N.D.	20	20.13	20	19.95	101	100	80-120	1	30
Bromodichloromethane	N.D.	20	19.55	20	19.51	98	98	71-120	0	30
Bromoform	N.D.	20	18.78	20	19.36	94	97	51-120	3	30
Bromomethane	N.D.	20	14.92	20	14.97	75	75	53-128	0	30
2-Butanone	N.D.	150	150.92	150	150.52	101	100	59-135	0	30
n-Butylbenzene	N.D.	20	25.25	20	25.54	126*	128*	76-120	1	30
sec-Butylbenzene	N.D.	20	26.72	20	27.06	134*	135*	77-120	1	30
tert-Butylbenzene	N.D.	20	25.52	20	26.12	128*	131*	78-120	2	30
Carbon Disulfide	N.D.	20	24.83	20	24.66	124	123	65-128	1	30
Carbon Tetrachloride	N.D.	20	22.47	20	22.55	112	113	64-134	0	30
Chlorobenzene	N.D.	20	23.55	20	23.84	118	119	80-120	1	30
Chloroethane	N.D.	20	16.36	20	16.63	82	83	55-123	2	30
Chloroform	N.D.	20	20.48	20	20.46	102	102	80-120	0	30
Chloromethane	N.D.	20	17.65	20	17.62	88	88	56-121	0	30
2-Chlorotoluene	N.D.	20	25.14	20	25.28	126*	126*	80-120	1	30
4-Chlorotoluene	N.D.	20	23.97	20	24.62	120	123*	80-120	3	30
1,2-Dibromo-3-chloropropane	N.D.	20	18.63	20	18.62	93	93	47-131	0	30
Dibromochloromethane	N.D.	20	20.58	20	20.94	103	105	71-120	2	30
1,2-Dibromoethane	N.D.	20	21.86	20	22.03	109	110	77-120	1	30
Dibromomethane	N.D.	20	20.08	20	19.53	100	98	80-120	3	30
1,2-Dichlorobenzene	N.D.	20	23.26	20	23.68	116	118	80-120	2	30
1,3-Dichlorobenzene	N.D.	20	24.24	20	24.38	121*	122*	80-120	1	30

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	N.D.	20	24.01	20	24.4	120	122*	80-120	2	30
Dichlorodifluoromethane	N.D.	20	15.2	20	14.98	76	75	41-127	1	30
1,1-Dichloroethane	N.D.	20	22.53	20	21.94	113	110	80-120	3	30
1,2-Dichloroethane	N.D.	20	18.41	20	17.76	92	89	73-124	4	30
1,1-Dichloroethene	N.D.	20	25.69	20	24.85	128	124	80-131	3	30
cis-1,2-Dichloroethene	N.D.	20	23.69	20	23.42	118	117	80-120	1	30
trans-1,2-Dichloroethene	N.D.	20	24.52	20	24.99	123*	125*	80-120	2	30
1,2-Dichloropropane	N.D.	20	23.22	20	23.22	116	116	80-120	0	30
1,3-Dichloropropane	N.D.	20	21.99	20	22.37	110	112	80-120	2	30
2,2-Dichloropropane	N.D.	20	19.48	20	19.47	97	97	55-142	0	30
1,1-Dichloropropene	N.D.	20	23.32	20	23.38	117	117	78-120	0	30
cis-1,3-Dichloropropene	N.D.	20	19.8	20	19.8	99	99	75-120	0	30
trans-1,3-Dichloropropene	N.D.	20	18.91	20	19.24	95	96	67-120	2	30
Ethylbenzene	N.D.	20	23.78	20	24.11	119	121*	80-120	1	30
Hexachlorobutadiene	N.D.	20	20.72	20	20.9	104	105	63-120	1	30
2-Hexanone	N.D.	100	97.25	100	99.26	97	99	56-135	2	30
Isopropylbenzene	N.D.	20	24.6	20	24.72	123*	124*	80-120	0	30
p-Isopropyltoluene	N.D.	20	25.77	20	26.18	129*	131*	76-120	2	30
Methyl Tertiary Butyl Ether	N.D.	20	20.32	20	20.93	102	105	69-122	3	30
4-Methyl-2-pentanone	N.D.	100	97.31	100	97.83	97	98	62-133	1	30
Methylene Chloride	N.D.	20	23.91	20	23.62	120	118	80-120	1	30
Naphthalene	N.D.	20	21.85	20	22.47	109	112	53-124	3	30
n-Propylbenzene	N.D.	20	26.25	20	26.72	131*	134*	79-121	2	30
Styrene	N.D.	20	22.59	20	22.87	113	114	80-120	1	30
1,1,1,2-Tetrachloroethane	N.D.	20	21.65	20	21.52	108	108	78-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	20	22.83	20	23.12	114	116	72-120	1	30
Tetrachloroethene	N.D.	20	24.22	20	24.73	121*	124*	80-120	2	30
Toluene	N.D.	20	24.14	20	24.42	121*	122*	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	20	23.5	20	24.16	117	121*	66-120	3	30
1,2,4-Trichlorobenzene	N.D.	20	23.84	20	24.32	119	122*	63-120	2	30
1,1,1-Trichloroethane	N.D.	20	19.6	20	19.05	98	95	67-126	3	30
1,1,2-Trichloroethane	N.D.	20	23.81	20	23.41	119	117	80-120	2	30
Trichloroethene	N.D.	20	21.62	20	22.07	108	110	80-120	2	30
Trichlorofluoromethane	N.D.	20	15.65	20	15.81	78	79	55-135	1	30
1,2,3-Trichloropropane	N.D.	20	22.03	20	21.62	110	108	75-124	2	30
1,2,4-Trimethylbenzene	N.D.	20	24.26	20	24.69	121*	123*	75-120	2	30
1,3,5-Trimethylbenzene	N.D.	20	24.74	20	25.46	124*	127*	75-120	3	30
Vinyl Chloride	N.D.	20	18.49	20	18.57	92	93	56-120	0	30
m+p-Xylene	N.D.	40	48.11	40	48.74	120	122*	80-120	1	30
o-Xylene	N.D.	20	23.59	20	23.82	118	119	80-120	1	30
Xylene (Total)	N.D.	60	71.7	60	72.56	120	121*	80-120	1	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 18323SLG026	Sample number(s): 9896500,9896511 UNSPK: 9896511									
1-Methylnaphthalene	0.0872	1.67	1.53	1.65	1.56	87	89	81-117	2	30
2-Methylnaphthalene	0.0733	1.67	1.54	1.65	1.59	88	92	80-111	3	30
Naphthalene	N.D.	1.67	1.61	1.65	1.53	96	93	81-111	5	30
Batch number: 18324SLC026	Sample number(s): 9896501-9896506,9896508-9896510,9896512-9896516,9896518-9896523 UNSPK: 9896502									
1-Methylnaphthalene	0.0558	1.64	1.34	1.67	1.52	79*	88	81-117	12	30
2-Methylnaphthalene	0.101	1.64	1.42	1.67	1.59	80	90	80-111	12	30
Naphthalene	0.0206	1.64	1.29	1.67	1.42	78*	84	81-111	10	30
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 183190002A	Sample number(s): 9896496-9896503 UNSPK: 9896496									
Diesel Range Organics C12-C24	117.64	133.36	338			165*		61-115		
Batch number: 183190003A	Sample number(s): 9896505-9896506,9896508-9896511,9896513-9896514,9896516 UNSPK: 9896516									
Diesel Range Organics C12-C24	N.D.	131.96	92.97			70		61-115		
Batch number: 183200062A	Sample number(s): 9896526-9896529 UNSPK: 9896528									
Diesel Range Organics C12-C24	N.D.	131.78	101.61			77		61-115		
Batch number: 183240018A	Sample number(s): 9896504,9896512,9896530,9896534 UNSPK: 9896530									
Diesel Range Organics C12-C24	N.D.	132.48	102.48			77		61-115		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 183191404901	Sample number(s): 9896518-9896527,9896530,9896534 UNSPK: 9896518									
Lead	8.88	14.21	22.78	14.81	24.14	98	103	75-125	6	20
Batch number: 183201404904	Sample number(s): 9896496-9896506,9896508-9896516 UNSPK: 9896496									
Lead	6.30	13.64	23.4	14.52	23.95	125	122	75-125	2	20
	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>					
Batch number: 183201404402	Sample number(s): 9896517 UNSPK: 9896517									
Lead	346.93	150	607.39	150	568.97	174*	148*	75-125	7	20

### Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
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\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 183190002A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	Sample number(s): 9896496-9896503 BKG: 9896496			
	117.64	205.98	55*	20
	324.23	407.21	23*	20
Batch number: 183190003A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	Sample number(s): 9896505-9896506,9896508-9896511,9896513-9896514,9896516 BKG: 9896516			
	N.D.	N.D.	0 (1)	20
	9.89	N.D.	200* (1)	20
Batch number: 183200062A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	Sample number(s): 9896526-9896529 BKG: 9896528			
	N.D.	N.D.	0 (1)	20
	N.D.	N.D.	0 (1)	20
Batch number: 183240018A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	Sample number(s): 9896504,9896512,9896530,9896534 BKG: 9896530			
	N.D.	N.D.	0 (1)	20
	N.D.	N.D.	0 (1)	20
Batch number: 183191404901 Lead	mg/kg	mg/kg		
	Sample number(s): 9896518-9896527,9896530,9896534 BKG: 9896518			
	8.88	9.07	2 (1)	20
Batch number: 183201404904 Lead	Sample number(s): 9896496-9896506,9896508-9896516 BKG: 9896496			
	6.30	7.07	12	20
Batch number: 183201404402 Lead	ug/l	ug/l		
	Sample number(s): 9896517 BKG: 9896517			
	346.93	416.59	18	20
Batch number: 18324820002A Moisture	%	%		
	Sample number(s): 9896496-9896505 BKG: 9896501			
	14.58	14.98	3	5
Batch number: 18324820002B Moisture	Sample number(s): 9896506,9896508-9896516 BKG: 9896513			
	6.45	6.09	6*	5
Batch number: 18324820003A Moisture	Sample number(s): 9896518-9896530,9896534 BKG: 9896521			
	31.74	30.83	3	5

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183233AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896530	107	108	94	90
9896534	109	106	91	86
Blank	108	107	95	92
LCS	102	103	100	105
LCSD	100	102	100	103
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183241AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896496	109	111	113	65
9896497	107	108	93	96
9896498	104	110	95	88
9896499	106	105	97	86
9896500	106	109	92	94
9896502	96	103	99	104
9896503	95	99	101	101
9896513	105	110	95	92
Blank	105	101	96	91
LCS	101	101	100	105
LCSD	100	100	100	103
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896506	98	101	103	97
9896509	103	109	93	97
9896514	106	107	95	92
Blank	105	105	95	91
LCS	100	101	100	104
LCSD	100	104	100	103
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183303AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896510	92	98	107	99
Blank	107	104	95	90

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183303AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCS	101	103	99	104
LCSD	100	103	100	103
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: F183251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896507	93	97	102	95
Blank	94	98	102	95
LCS	92	102	104	96
Limits:	80-120	80-120	80-120	80-120

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: Q183241AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896501	64	68	66	73
9896504	64	68	67	73
9896505	58	61	60	74
Blank	94	100	96	98
LCS	107	110	105	111
LCSD	98	101	96	101
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Solvent Cmpd List - Soil  
Batch number: Q183251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896512	77	80	96	122
Blank	93	100	98	97
LCS	97	98	97	102
LCSD	99	104	98	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: R183252AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896508	86	87	86	86
9896511	70	72	68	74

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: R183252AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896519	71	70	88	118
9896520	70	71	68	70
9896521	69	68	63	72
9896524	80	81	105	95
9896526	50	52*	66	93
9896527	70	68	64	72
9896528	59	61	57	66
9896529	61	65	62	66
Blank	103	104	103	100
LCS	103	101	101	96
LCSD	105	102	102	103
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Solvent Cmpd List - Water  
Batch number: W183233AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896517	90	99	101	93
Blank	90	99	100	92
LCS	92	101	102	94
MS	92	101	102	96
MSD	92	96	102	94
Limits:	80-120	80-120	80-120	80-120

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: X183251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896515	101	107	102	94
9896516	104	110	105	89
9896518	100	107	104	92
9896522	104	110	102	85
9896523	103	111	98	97
9896525	85	98	118	114
Blank	99	103	107	92
LCS	95	103	108	103
LCSD	95	100	108	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE 8260C  
Batch number: Z183182AA

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE 8260C  
Batch number: Z183182AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9896531	104	106	101	93
9896532	110	107	120	102
9896533	114	102	103	83
9896535	95	91	105	87
9896536	134*	108	101	95
Blank	108	108	98	90
LCS	100	102	102	100
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18323SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9896496	87	89	90
9896497	78	87	87
9896498	78	83	86
9896499	37*	37*	37*
9896530	85	90	90
9896534	47*	48*	50*
Blank	86	84	88
LCS	87	87	93
Limits:	49-118	57-116	55-118

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18323SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9896500	101	94	100
9896511	93	83	89
Blank	100	93	98
LCS	103	96	102
MS	99	90	96
MSD	98	91	97
Limits:	49-118	57-116	55-118

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18324SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9896501	75	89	92
9896502	83	92	95
9896503	83	86	89

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18324SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9896504	79	83	86
9896505	84	87	91
9896506	94	87	91
9896508	81	84	87
9896509	108	91	95
9896510	85	89	90
9896512	90	82	85
9896513	85	88	92
9896514	117	91	91
9896515	85	90	92
9896516	87	90	94
9896518	87	92	95
9896519	97	90	93
9896520	85	90	93
9896521	85	88	94
9896522	87	93	94
9896523	84	88	89
Blank	88	92	93
LCS	92	92	96
MS	68	78	80
MSD	83	91	92
Limits:	49-118	57-116	55-118

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18324SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9896524	98	87	93
9896525	85	87	90
9896526	111	93	96
9896527	89	92	93
9896528	89	91	92
9896529	85	86	90
Blank	90	96	95
LCS	95	94	96
Limits:	49-118	57-116	55-118

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18319A34A

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18319A34A

	Trifluorotoluene-F
9896496	97
9896497	105
9896498	82
9896499	75
9896500	94
9896501	100
9896502	111
9896503	82
9896505	86
9896506	93
9896508	88
9896509	137
9896510	105
9896511	234*
9896513	87
9896514	103
9896530	84
9896534	71
Blank	102
LCS	103
LCSD	107

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18320A34A

	Trifluorotoluene-F
9896515	88
9896516	84
9896518	93
9896522	91
9896523	106
9896525	70
Blank	99
LCS	104
LCSD	103

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18324A34A

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18324A34A

	Trifluorotoluene-F
9896504	101
9896512	130
9896519	84
9896520	70
9896524	157*
9896526	5872*
9896527	72
9896528	67
9896529	80
Blank	93
LCS	97
LCSD	91

Limits: 50-150

Analysis Name: NWTPH-Gx water C7-C12  
Batch number: 18324B20A

	Trifluorotoluene-F
9896507	85
9896517	82
9896531	81
9896532	83
9896533	83
9896535	86
9896536	82
Blank	85
LCS	94
LCSD	85

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18325A34A

	Trifluorotoluene-F
9896521	45*
Blank	91
LCS	76
LCSD	79

Limits: 50-150

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Dx soil  
Batch number: 183190002A

	Orthoterphenyl
9896496	110
9896497	108
9896498	106
9896499	100
9896500	96
9896501	88
9896502	100
9896503	97
Blank	106
DUP	102
LCS	94
MS	107

Limits: 50-150

Analysis Name: NWTPH-Dx soil  
Batch number: 183190003A

	Orthoterphenyl
9896505	96
9896506	108
9896508	106
9896509	110
9896510	96
9896511	96
9896513	97
9896514	101
9896516	99
Blank	102
DUP	101
LCS	106
MS	106

Limits: 50-150

Analysis Name: NWTPH-Dx soil  
Batch number: 183200053A

	Orthoterphenyl
9896515	91
9896518	93
9896519	92
9896520	90
9896521	91

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Dx soil  
Batch number: 183200053A

	Orthoterphenyl
9896522	96
9896523	100
9896524	93
9896525	94
Blank	90
LCS	99
LCS D	98

Limits: 50-150

Analysis Name: NWTPH-Dx soil  
Batch number: 183200062A

	Orthoterphenyl
9896526	99
9896527	96
9896528	100
9896529	103
Blank	95
DUP	95
LCS	103
MS	99

Limits: 50-150

Analysis Name: NWTPH-Dx soil  
Batch number: 183240018A

	Orthoterphenyl
9896504	90
9896512	96
9896530	91
9896534	102
Blank	101
DUP	90
LCS	105
MS	101

Limits: 50-150

Analysis Name: NWTPH-Dx water  
Batch number: 183240044A

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 12/04/2018 17:36

Group Number: 2008697

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Dx water

Batch number: 183240044A

	Orthoterphenyl
9896517	70
Blank	78
LCS	83
LCSD	78
Limits:	50-150

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # 11255 For Eurofins Lancaster Laboratories Environmental use only  
Group # 208697 Sample # 9896496-536  
Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested										6 Remarks														
Facility # <u>96590</u> WBS			<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Oil <input type="checkbox"/> Air			Total Number of Containers: <u>8021</u> <input type="checkbox"/> BTEX + MTBE <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Naphth 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <u>6010</u> <u>BTEX/MTBE/EDB/EDC/1,2,4-trichloro</u> <u>Moisture</u> <u>Naphthalenes by 8270D</u>										SCR #: _____														
Site Address <u>232 East Woodin Ave, Chelan, WA</u>																Chevron PM <u>Eric Hetrick</u> Lead Consultant		Consultant/Office <u>Leidos - Bothell, WA</u>		Consultant Project Mgr. <u>Russ Shropshire</u>		Consultant Phone # <u>425-482-3323</u>		<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits						
Sampler <u>R. Otteman and T. Dube</u>																Composite <input type="checkbox"/> Grab <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/>			Date: <u>11/6/18</u> Time: <u>1000</u> Date: <u>11/6/18</u> Time: <u>1030</u> Date: <u>11/6/18</u> Time: <u>1050</u> Date: <u>11/6/18</u> Time: <u>1140</u> Date: <u>11/6/18</u> Time: <u>1140</u> Date: <u>11/7/18</u> Time: <u>0930</u> Date: <u>11/7/18</u> Time: <u>1050</u> Date: <u>11/7/18</u> Time: <u>1100</u> Date: <u>11/7/18</u> Time: <u>1140</u> Date: <u>11/7/18</u> Time: <u>1215</u> Date: <u>11/7/18</u> Time: <u>1450</u> Date: <u>11/7/18</u> Time: <u>1520</u>										*Include 1-methyl, and 2-methyl naphthalene.	
Sample Identification																														
Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour																Relinquished by <u>Walt Oth</u> Date <u>11/12/18</u> Time <u>1240</u>			Received by _____ Date _____ Time _____			Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Received by <u>MWR</u> Date <u>11/13/18</u> Time <u>0935</u>						
Data Package (circle if required) Type I - Full Type VI (Raw Data)																EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____			Temperature Upon Receipt <u>0.4-2.1 °C</u>			Custody Seals Intact? <u>Yes</u> No								

# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories Environmental**

Acct. # 11255 For Eurofins Lancaster Laboratories Environmental use only  
 Group # 2008697 Sample # 9846496-536  
 Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix			5 Analyses Requested							6							
Facility # <u>Chevron Site # 96590</u>		WBS		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Oil <input type="checkbox"/> Air			Total Number of Containers <input checked="" type="checkbox"/> BTEX + MTBE 8021 <input type="checkbox"/> 8260 Naphth <input type="checkbox"/> 8260 full scan Oxygenates NWTPH-GX NWTPH-DX with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-DX without Silica Gel Cleanup WA VPH Lead Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>GO10</u> <u>EDP/ENC 8260B</u> <u>Moisture</u> <u>Naphthalenes by 827ED*</u>							SCR #: <u>233296</u>							
Site Address <u>232 E. Woodin Ave, Chelan, WA</u>																					
Chevron PM <u>Eric Hetrick</u>		Lead Consultant <u>Leidas</u>																			
Consultant/Office <u>Leidas - Bothell, WA</u>																					
Consultant Project Mgr. <u>Russ Shropshire</u>																					
Consultant Phone # <u>425-482-3323</u>																					
Sampler <u>R. Otteman and T. Dube</u>				3 Composite																	
2 Sample Identification		Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	8260 full scan	Oxygenates	NWTPH-GX	NWTPH-DX with Silica Gel Cleanup	NWTPH-DX without Silica Gel Cleanup	WA VPH	Lead Total	Diss.	Method	6 Remarks	
Date	Time	Date	Time																	Soil	Water
<u>ER-2-110818</u>	<u>11/8/18</u>	<u>1000</u>	<u>1000</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>6</u>												* Include 1-methyl, and 2-methyl Naphthalene.  RO
<u>RWB-4-21-110818</u>	<u>11/8/18</u>	<u>1405</u>	<u>1405</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>												
<u>RWB-4-14.5-110818</u>	<u>11/8/18</u>	<u>1350</u>	<u>1350</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>												
<u>RWB-4-25-110818</u>	<u>11/8/18</u>	<u>1440</u>	<u>1440</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>6</u>												
<u>RWB-4-30-110818</u>	<u>11/8/18</u>	<u>1530</u>	<u>1530</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>												
<u>RWB-4-47-110818</u>	<u>11/8/18</u>	<u>1640</u>	<u>1640</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>												
<u>UST-4-7.5-110718</u>	<u>11/7/18</u>	<u>1415</u>	<u>1415</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>												
<u>UST-6-8-110818</u>	<u>11/8/18</u>	<u>0955</u>	<u>0955</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>												
<u>UST-7-8-110818</u>	<u>11/8/18</u>	<u>1510</u>	<u>1510</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>												
<u>UST-5-8-110818</u>	<u>11/8/18</u>	<u>0830</u>	<u>0830</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>												
<u>UST-7-W-110818</u>	<u>11/8/18</u>	<u>1315</u>	<u>1315</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>												
<u>RWB-2-15-110918</u>	<u>11/15/18</u>	<u>1110</u>	<u>1110</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>												
<u>RWB-2-26.5-110918</u>	<u>11/16/18</u>	<u>1230</u>	<u>1230</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>												
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by			Date	Time	Received by			Date	Time	9							
<input checked="" type="radio"/> Standard      5 day      4 day 72 hour      48 hour      24 hour				<u>Edwin Hernandez</u>			<u>10/17/18</u>	<u>1545</u>													
				<u>North HA</u>			<u>11/12/18</u>	<u>1240</u>													
8 Data Package (circle if required)				Relinquished by Commercial Carrier:			Received by			Date	Time										
<input type="radio"/> Type I - Full <input type="radio"/> Type VI (Raw Data)				<input checked="" type="radio"/> UPS <input type="radio"/> FedEx <input type="radio"/> Other			<u>North HA</u>			<u>11/13/18</u>	<u>0935</u>										
<input type="checkbox"/> EDD (circle if required) CVX-RTBU-FI_05 (default) Other: _____				Temperature Upon Receipt <u>04-2.1</u> °C			Custody Seals Intact?			<input checked="" type="radio"/> Yes	<input type="radio"/> No										

# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories Environmental**

Acct. # 11255 For Eurofins Lancaster Laboratories Environmental use only  
 Group # 2008697 Sample # 9896496-536  
Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested										6 Remarks											
Facility # <u>Chevron 96590</u> WBS Site Address <u>232 E. Woodin Ave, Chelan, WA</u> Chevron PM <u>Eric Hetrick</u> Lead Consultant Consultant/Office <u>Leidos - Bothell, WA</u> Consultant Project Mgr. <u>Russ Shropshire</u> Consultant Phone # <u>425-482-3323</u> Sampler <u>R. Otterman and T. Dube</u>			<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Air			Total Number of Containers: <u>7</u> <input checked="" type="checkbox"/> BTEX + MTBE <input type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates NWTPH-GX NWTPH-DX with Silica Gel Cleanup <input type="checkbox"/> NWTPH-DX without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead <input checked="" type="checkbox"/> Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>6010</u> Moisture EPB/EC 8260 Naphthalenes by 8260*										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits											
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8021	8260	Naphth	Oxygenates	NWTPH-GX	NWTPH-DX with Silica Gel Cleanup	NWTPH-DX without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method				
Date	Time																										
<u>RWB-2-27.5-110918</u>	<u>11/9/18</u>	<u>1200</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	* Include 1-methyl and 2-methyl naphthalene
<u>RWB-2-37-110918</u>	<u>11/9/18</u>	<u>1445</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>RWB-2-48-110918</u>	<u>11/9/18</u>	<u>1605</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>RWB-1-10.5-111018</u>	<u>11/10/18</u>	<u>1155</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>RWB-1-14.5-111018</u>	<u>11/10/18</u>	<u>1210</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>RWB-1-17.5-111018</u>	<u>11/10/18</u>	<u>1310</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>RWB-1-23-111018</u>	<u>11/10/18</u>	<u>1340</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>RWB-1-33-111018</u>	<u>11/10/18</u>	<u>1450</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>RWB-1-44-111018</u>	<u>11/10/18</u>	<u>1615</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>RWB-1-49.5-111018</u>	<u>11/10/18</u>	<u>1630</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>DUP-2-111018</u>	<u>11/10/18</u>	<u>1645</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>UST-2-8-110618</u>	<u>11/6/18</u>	<u>1136</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>TB-5-111118</u>	<u>11/11/18</u>	<u>1200</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Turnaround Time Requested (TAT) (please circle) <input checked="" type="radio"/> Standard 5 day 4 day 72 hour 48 hour 24 hour			Relinquished by <u>[Signature]</u> Date <u>11/12/18</u> Time <u>1230</u>		Received by _____ Date _____ Time _____		Relinquished by _____ Date _____ Time _____		Received by _____ Date _____ Time _____		Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Received by <u>[Signature]</u> Date <u>11/13/18</u> Time <u>0935</u>		Temperature Upon Receipt <u>0.4-2.1 °C</u> Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												
8 Data Package (circle if required) Type I - Full Type VI (Raw Data)			EDD (circle if required) CVX-RTBU-FI_05 (default) Other: _____		Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Received by <u>[Signature]</u> Date <u>11/13/18</u> Time <u>0935</u>		Temperature Upon Receipt <u>0.4-2.1 °C</u> Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Received by <u>[Signature]</u> Date <u>11/13/18</u> Time <u>0935</u>		Temperature Upon Receipt <u>0.4-2.1 °C</u> Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												

# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories**

Acct. # 11255

For Lancaster Laboratories use only  
 Group # 2008697 Sample # 9896496-536  
Instructions on reverse side correspond with circled numbers.

SCR #: \_\_\_\_\_

1 Client Information			4 Matrix			5 Analyses Requested																											
Facility # <u>96590</u> WBS			<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Composite	<input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Composite	<input type="checkbox"/> Surface <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Composite	Total Number of Containers BTEX + MTBB <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth 8260 full scan	Oxygenates NWTPH GX NWTPH DX <input checked="" type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/>	Lead <input checked="" type="checkbox"/> Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>6010</u> WAVPH <input type="checkbox"/> WAEPH <input type="checkbox"/>	<u>EDB/ EDC 8260B</u> <u>moisture</u> <u>Naphthalens by 8270DX*</u>	SCR #: _____	<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits																						
Site Address <u>232 E. Woodin Ave, Chelan, WA</u>																																	
Chevron PM <u>Eric Hetrick</u> Lead Consultant																																	
Consultant/Office <u>Leidos/ Bothell, WA</u>																																	
Consultant Project Mgr. <u>Russ Shropshire</u>																																	
Consultant Phone # <u>425-482-3323</u>																																	
Sampler <u>R. Ottmann and T. Dube</u>																																	
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBB	8021	8260	Naphth	Oxygenates	NWTPH GX	NWTPH DX	Silica Gel Cleanup	Lead	Total	Diss.	Method	WAVPH	WAEPH	EDB/ EDC 8260B	moisture	Naphthalens by 8270DX*	SCR #: _____						
Date	Time																																
<del>FB-6-1118</del>																																	
FB-6-11118	11/11/18	1205	X						4																								
FB-9-11118	11/11/18	1210	X						4																								
UST-3-8-110618	11/6/18	1405	X			X			4																								
FB-8-11118	11/11/18	1215	X						4																								
FB-9-11118	11/11/18	1220	X						4																								

6 Remarks  
 \* includes 1-methyl, and 2-methyl naphthalene

7 Turnaround Time Requested (TAT) (please circle) <input checked="" type="radio"/> Standard 5 day <input type="radio"/> 72 hour 48 hour 24 hour			Relinquished by <u>[Signature]</u> Date <u>11/12/18</u> Time <u>1240</u>		Received by Date _____ Time _____	
8 Data Package Options (please circle if required) Type I - Full <input type="checkbox"/> Type VI (Raw Data) <input type="checkbox"/>			Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Received by <u>[Signature]</u> Date <u>11/13/18</u> Time <u>0935</u>	
Temperature Upon Receipt <u>0.4-2.1 °C</u>			Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			



Group Number(s):  
2008697

Client: Chevron

**Delivery and Receipt Information**

Delivery Method: UPS                      Arrival Timestamp: 11/13/2018 9:35  
 Number of Packages: 10                      Number of Projects: 2

**Arrival Condition Summary**

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	20
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Nicole Reiff (25684) at 10:57 on 11/13/2018

**Samples Chilled Details**

Thermometer Types:    DT = Digital (Temp. Bottle)    IR = Infrared (Surface Temp)    All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.8	DT	Wet	Y	Bagged	N
2	DT146	0.6	DT	Wet	Y	Bagged	N
3	DT146	0.4	DT	Wet	Y	Bagged	N
4	DT146	0.7	DT	Wet	Y	Bagged	N
5	DT146	1.4	DT	Wet	Y	Bagged	N
6	DT146	0.8	DT	Wet	Y	Bagged	N
7	DT146	0.9	DT	Wet	Y	Bagged	N
8	DT146	1.3	DT	Wet	Y	Bagged	N
9	DT146	2.1	DT	Wet	Y	Bagged	N
10	DT146	0.4	DT	Wet	Y	Bagged	N

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mL</b>	milliliter(s)
<b>C</b>	degrees Celsius	<b>MPN</b>	Most Probable Number
<b>cfu</b>	colony forming units	<b>N.D.</b>	non-detect
<b>CP Units</b>	cobalt-chloroplatinate units	<b>ng</b>	nanogram(s)
<b>F</b>	degrees Fahrenheit	<b>NTU</b>	nephelometric turbidity units
<b>g</b>	gram(s)	<b>pg/L</b>	picogram/liter
<b>IU</b>	International Units	<b>RL</b>	Reporting Limit
<b>kg</b>	kilogram(s)	<b>TNTC</b>	Too Numerous To Count
<b>L</b>	liter(s)	<b>µg</b>	microgram(s)
<b>lb.</b>	pound(s)	<b>µL</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>umhos/cm</b>	micromhos/cm
<b>meq</b>	milliequivalents	<b>MCL</b>	Maximum Contamination Limit
<b>mg</b>	milligram(s)		
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

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

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
P^	Concentration difference between the primary and confirmation column $> 40\%$ . The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.





## ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Chevron  
L4310  
6001 Bollinger Canyon Road  
San Ramon CA 94583

Report Date: December 02, 2018 15:05

**Project: 96590**

Account #: 11255  
Group Number: 2009868  
PO Number: 0015293335  
Release Number: HETRICK  
State of Sample Origin: WA

Electronic Copy To Leidos

Attn: Russ Shropshire

Respectfully Submitted,



Amek Carter  
Specialist

(717) 556-7252

To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. Historical copies may be requested through your project manager.



## SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
SRI4B-6-S-9-181112 Grab Soil	11/12/2018 09:45	9902154
SRI4B-6-S-14.5-181112 Grab Soil	11/12/2018 10:20	9902155
SRI4B-7-S-8.5-181112 Grab Soil	11/12/2018 10:25	9902156
SRI4B-6-S-18-181112 Grab Soil	11/12/2018 11:30	9902157
SRI4B-6-S-20-181112 Grab Soil	11/12/2018 12:00	9902158
SRI4B-6-S-35-181112 Grab Soil	11/12/2018 15:00	9902159
SRI4B-6-S-49.5-181112 Grab Soil	11/12/2018 16:15	9902160
SRI4B-5-S-9-181113 Grab Soil	11/13/2018 09:30	9902161
SRI4B-5-S-12-181113 Grab Soil	11/13/2018 10:00	9902162
SRI4B-5-S-14.5-181113 Grab Soil	11/13/2018 10:15	9902163
SRI4B-5-S-16.5-181113 Grab Soil	11/13/2018 10:50	9902164
SRI4B-5-S-21-181113 Grab Soil	11/13/2018 11:40	9902165
SRI4B-5-S-29-181113 Grab Soil	11/13/2018 12:30	9902166
SRI4B-5-S-40-181113 Grab Soil	11/13/2018 14:30	9902167
SRI4B-5-S-49.5-181113 Grab Soil	11/13/2018 15:30	9902168
QA-10-T-181113 NA Water	11/13/2018 09:20	9902169
UST-9-S-7.5-181112 Grab Soil	11/12/2018 14:32	9902170
QA-11-T-181114 NA Water	11/14/2018 08:30	9902171

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

**Sample Description:** SRI4B-6-S-9-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902154  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40

**Collection Date/Time:** 11/12/2018 09:45

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.024	45.22
11995	1,2-Dibromoethane	106-93-4	N.D.	0.020	45.22
11995	1,2-Dichloroethane	107-06-2	N.D.	0.029	45.22
11995	Ethylbenzene	100-41-4	N.D.	0.020	45.22
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	45.22
11995	Toluene	108-88-3	N.D.	0.029	45.22
11995	Xylene (Total)	1330-20-7	0.083	0.049	45.22
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.38	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.43	0.011	1
10726	Naphthalene	91-20-3	0.074	0.007	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	270	22	2173.54
Reporting limits were raised due to sample foaming.					
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	210	21	5
08272	Heavy Range Organics C24-C40	n.a.	1,100	54	5
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.26	0.583	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	7.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183301AA	11/26/2018 11:22	Stephen C Nolte	45.22
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/12/2018 09:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/12/2018 09:45	Client Supplied	1

**Sample Description:** SRI4B-6-S-9-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902154  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40

Collection Date/Time: 11/12/2018 09:45

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/12/2018 09:45	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLE026	11/30/2018 02:39	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLE026	11/22/2018 10:30	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18325A34A	11/21/2018 20:50	Jeremy C Giffin	2173.54
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/12/2018 09:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240018A	11/30/2018 08:00	Thomas C Wildermuth	5
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183240018A	11/20/2018 18:58	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404901	11/25/2018 08:13	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404901	11/19/2018 15:20	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** SRI4B-6-S-14.5-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902155  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/12/2018 10:20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.0009	0.0005	0.86
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.86
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.86
11995	Ethylbenzene	100-41-4	0.001	0.0004	0.86
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.86
11995	Toluene	108-88-3	0.0008	0.0006	0.86
11995	Xylene (Total)	1330-20-7	0.01	0.0009	0.86
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.084	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.10	0.011	1
10726	Naphthalene	91-20-3	0.018	0.007	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	5.3	533.83
Reporting limits were raised due to sample foaming.					
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	72	4.3	1
08272	Heavy Range Organics C24-C40	n.a.	330	11	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	2.66	0.435	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	7.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183281AA	11/24/2018 11:30	Linda C Pape	0.86
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/12/2018 10:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/12/2018 10:20	Client Supplied	1

**Sample Description:** SRI4B-6-S-14.5-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902155  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/12/2018 10:20

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/12/2018 10:20	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLE026	11/30/2018 03:03	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLE026	11/22/2018 10:30	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 05:55	Jeremy C Giffin	533.83
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/12/2018 10:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240018A	11/30/2018 07:20	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183240018A	11/20/2018 18:58	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404901	11/25/2018 08:16	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404901	11/19/2018 15:20	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** SRI4B-7-S-8.5-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9902156  
ELLE Group #: 2009868  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/12/2018 10:25

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	1.01
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	1.01
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	1.01
11995	Ethylbenzene	100-41-4	N.D.	0.0004	1.01
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
11995	Toluene	108-88-3	N.D.	0.0006	1.01
11995	Xylene (Total)	1330-20-7	N.D.	0.001	1.01
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.3	28.93
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.2	1
08272	Heavy Range Organics C24-C40	n.a.	28	11	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	1.32	0.565	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	6.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183253AA	11/22/2018 05:01	Patrick T Herres	1.01
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/12/2018 10:25	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/12/2018 10:25	Client Supplied	1

**Sample Description:** SRI4B-7-S-8.5-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902156  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40

Collection Date/Time: 11/12/2018 10:25

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/12/2018 10:25	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLE026	11/30/2018 03:27	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLE026	11/22/2018 10:30	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/20/2018 21:38	Jeremy C Giffin	28.93
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/12/2018 10:25	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240048A	11/30/2018 02:02	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183240048A	11/21/2018 17:45	Elizabeth E Donovan	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404901	11/25/2018 08:19	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404901	11/19/2018 15:20	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1



**Sample Description:** SRI4B-6-S-18-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902157  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/12/2018 11:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.005	0.0004	0.7
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0003	0.7
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.7
11995	Ethylbenzene	100-41-4	0.0009	0.0003	0.7
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0004	0.7
11995	Toluene	108-88-3	0.011	0.0005	0.7
11995	Xylene (Total)	1330-20-7	0.16	0.0008	0.7
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.005	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
10726	Naphthalene	91-20-3	0.012	0.008	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	11	0.2	21.52
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.58	0.528	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	13.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

## Sample Comments

State of Washington Lab Certification No. C457

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183253AA	11/22/2018 05:46	Patrick T Herres	0.7
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/12/2018 11:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/12/2018 11:30	Client Supplied	1

**Sample Description:** SRI4B-6-S-18-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902157  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40

Collection Date/Time: 11/12/2018 11:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/12/2018 11:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLE026	11/30/2018 03:52	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLE026	11/22/2018 10:30	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/26/2018 20:34	Jeremy C Giffin	21.52
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/12/2018 11:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240048A	11/30/2018 01:42	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183240048A	11/21/2018 17:45	Elizabeth E Donovan	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404901	11/25/2018 08:22	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404901	11/19/2018 15:20	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** SRI4B-6-S-20-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9902158  
ELLE Group #: 2009868  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/12/2018 12:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.044	58.18
11995	1,2-Dibromoethane	106-93-4	N.D.	0.035	58.18
11995	1,2-Dichloroethane	107-06-2	N.D.	0.053	58.18
11995	Ethylbenzene	100-41-4	3.8	0.035	58.18
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.044	58.18
11995	Toluene	108-88-3	N.D.	0.053	58.18
11995	Xylene (Total)	1330-20-7	6.5	0.088	58.18
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.21	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.46	0.015	1
10726	Naphthalene	91-20-3	0.25	0.01	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	780	16	1139.79
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	28	6.0	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	15	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	16.8	0.803	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	33.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183301AA	11/26/2018 12:31	Stephen C Nolte	58.18
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/12/2018 12:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/12/2018 12:00	Client Supplied	1

**Sample Description:** SRI4B-6-S-20-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902158  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/12/2018 12:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/12/2018 12:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLE026	11/30/2018 04:16	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLE026	11/22/2018 10:30	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/26/2018 22:19	Jeremy C Giffin	1139.79
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/12/2018 12:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240048A	11/30/2018 04:41	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183240048A	11/21/2018 17:45	Elizabeth E Donovan	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404901	11/25/2018 08:25	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404901	11/19/2018 15:20	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** SRI4B-6-S-35-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9902159  
ELLE Group #: 2009868  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/12/2018 15:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.61	0.035	52.16
11995	1,2-Dibromoethane	106-93-4	N.D.	0.028	52.16
11995	1,2-Dichloroethane	107-06-2	N.D.	0.042	52.16
11995	Ethylbenzene	100-41-4	0.91	0.028	52.16
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.035	52.16
11995	Toluene	108-88-3	0.082	0.042	52.16
11995	Xylene (Total)	1330-20-7	1.7	0.070	52.16
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.043	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.11	0.013	1
10726	Naphthalene	91-20-3	0.25	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	29	1.4	114.75
Reporting limits were raised due to sample foaming.					
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.54	2.70	5
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	25.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183301AA	11/26/2018 11:45	Stephen C Nolte	52.16
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/12/2018 15:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/12/2018 15:00	Client Supplied	1

**Sample Description:** SRI4B-6-S-35-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902159  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/12/2018 15:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/12/2018 15:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLE026	11/30/2018 04:40	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLE026	11/22/2018 10:30	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/26/2018 21:09	Jeremy C Giffin	114.75
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/12/2018 15:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240048A	11/30/2018 02:22	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183240048A	11/21/2018 17:45	Elizabeth E Donovan	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404901	11/25/2018 08:33	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404901	11/19/2018 15:20	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** SRI4B-6-S-49.5-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902160  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/12/2018 16:15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.58	0.039	57.28
11995	1,2-Dibromoethane	106-93-4	N.D.	0.031	57.28
11995	1,2-Dichloroethane	107-06-2	N.D.	0.047	57.28
11995	Ethylbenzene	100-41-4	0.13	0.031	57.28
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.039	57.28
11995	Toluene	108-88-3	0.25	0.047	57.28
11995	Xylene (Total)	1330-20-7	3.3	0.078	57.28
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.006	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.013	1
10726	Naphthalene	91-20-3	0.21	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	24	1.4	110.55
Reporting limits were raised due to sample foaming.					
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	6.83	3.02	5
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	26.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183301AA	11/26/2018 12:08	Stephen C Nolte	57.28
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/12/2018 16:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/12/2018 16:15	Client Supplied	1

**Sample Description:** SRI4B-6-S-49.5-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902160  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/12/2018 16:15

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/12/2018 16:15	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLE026	11/30/2018 05:04	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLE026	11/22/2018 10:30	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/26/2018 21:44	Jeremy C Giffin	110.55
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/12/2018 16:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240048A	11/30/2018 02:42	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183240048A	11/21/2018 17:45	Elizabeth E Donovan	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404901	11/25/2018 08:36	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404901	11/19/2018 15:20	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1



**Sample Description:** SRI4B-5-S-9-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9902161  
ELLE Group #: 2009868  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/13/2018 09:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.0008	0.0004	0.84
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.84
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.84
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.84
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0004	0.84
11995	Toluene	108-88-3	0.001	0.0005	0.84
11995	Xylene (Total)	1330-20-7	N.D.	0.0009	0.84

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.017	0.003	1
10726	2-Methylnaphthalene	91-57-6	0.021	0.010	1
10726	Naphthalene	91-20-3	0.011	0.007	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.7	0.2	24.51

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	9.1	4.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	10	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	1.88	0.462	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	4.6	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183301AA	11/26/2018 15:57	Jennifer K Howe	0.84

**Sample Description:** SRI4B-5-S-9-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902161  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/13/2018 09:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/13/2018 09:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/13/2018 09:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/13/2018 09:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLE026	11/30/2018 05:29	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLE026	11/22/2018 10:30	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/20/2018 22:13	Jeremy C Giffin	24.51
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/13/2018 09:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183250032A	11/28/2018 09:14	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183250032A	11/26/2018 07:00	Joshua S Ruth	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404901	11/25/2018 08:39	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404901	11/19/2018 15:20	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** SRI4B-5-S-12-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902162  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/13/2018 10:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.0005	0.0005	0.95
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.95
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.95
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.95
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.95
11995	Toluene	108-88-3	0.002	0.0006	0.95
11995	Xylene (Total)	1330-20-7	0.002	0.001	0.95
A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.					
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.4	0.2	25.95
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.0	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	10	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	1.09	0.522	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	2.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183301AA	11/26/2018 16:19	Jennifer K Howe	0.95

**Sample Description:** SRI4B-5-S-12-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902162  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/13/2018 10:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/13/2018 10:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/13/2018 10:00	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/13/2018 10:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLE026	11/30/2018 05:54	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLE026	11/22/2018 10:30	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/20/2018 22:49	Jeremy C Giffin	25.95
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/13/2018 10:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183250032A	11/28/2018 05:35	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183250032A	11/26/2018 07:00	Joshua S Ruth	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404901	11/25/2018 08:41	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404901	11/19/2018 15:20	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** SRI4B-5-S-14.5-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9902163  
ELLE Group #: 2009868  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/13/2018 10:15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	8.9	0.18	272.05
11995	1,2-Dibromoethane	106-93-4	N.D.	0.14	272.05
11995	1,2-Dichloroethane	107-06-2	N.D.	0.21	272.05
11995	Ethylbenzene	100-41-4	150	1.4	2720.51
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.18	272.05
11995	Toluene	108-88-3	170	2.1	2720.51
11995	Xylene (Total)	1330-20-7	960	3.6	2720.51
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	13	0.087	20
10726	2-Methylnaphthalene	91-57-6	35	0.26	20
10726	Naphthalene	91-20-3	39	0.17	20
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	15,000	240	20031.93
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	880	10	2
08272	Heavy Range Organics C24-C40	n.a.	43	26	2
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	30.4	3.77	5
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	23.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183302AA	11/27/2018 02:31	Patrick T Herres	272.05
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183302AA	11/27/2018 02:54	Patrick T Herres	2720.51
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/13/2018 10:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/13/2018 10:15	Client Supplied	1

**Sample Description:** SRI4B-5-S-14.5-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902163  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/13/2018 10:15

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/13/2018 10:15	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLE026	11/30/2018 12:07	Joseph M Gambler	20
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLE026	11/22/2018 10:30	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 07:05	Jeremy C Giffin	20031.93
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/13/2018 10:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183250032A	11/28/2018 08:55	Thomas C Wildermuth	2
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183250032A	11/26/2018 07:00	Joshua S Ruth	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404902	11/26/2018 07:45	Lisa J Cooke	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404902	11/19/2018 15:20	JoElla L Rice	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** SRI4B-5-S-16.5-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9902164  
ELLE Group #: 2009868  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/13/2018 10:50

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	9.5	0.40	591.37
11995	1,2-Dibromoethane	106-93-4	N.D.	0.32	591.37
11995	1,2-Dichloroethane	107-06-2	N.D.	0.48	591.37
11995	Ethylbenzene	100-41-4	66	0.32	591.37
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.40	591.37
11995	Toluene	108-88-3	140	0.48	591.37
11995	Xylene (Total)	1330-20-7	400	0.79	591.37

The holding time was not met for the reported analysis. There were trials analyzed within holding time at DF1000 and 10,000 but the sample needed a lower dilution in order to report target compounds at appropriate levels. The client was notified and the data reported from the DF500 analysis.

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	18	0.089	20
10726	2-Methylnaphthalene	91-57-6	47	0.27	20
10726	Naphthalene	91-20-3	70	0.18	20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	20,000	310	25346.75

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	460	5.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	34.0	0.563	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	25.5	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183312AA	11/28/2018 03:53	Patrick T Herres	591.37

**Sample Description:** SRI4B-5-S-16.5-181113 Grab Soil  
**Facility# 96590**  
**232 East Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #:** SW 9902164  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/13/2018 10:50

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/13/2018 10:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/13/2018 10:50	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/13/2018 10:50	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLE026	11/30/2018 12:31	Joseph M Gambler	20
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLE026	11/22/2018 10:30	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 07:40	Jeremy C Giffin	25346.75
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/13/2018 10:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183250032A	11/28/2018 05:55	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183250032A	11/26/2018 07:00	Joshua S Ruth	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404905	11/25/2018 20:58	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404905	11/20/2018 07:35	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1



**Sample Description:** SRI4B-5-S-21-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9902165  
ELLE Group #: 2009868  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/13/2018 11:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>
11995	Benzene	71-43-2	2.9	0.24	418.51
11995	1,2-Dibromoethane	106-93-4	N.D.	0.19	418.51
11995	1,2-Dichloroethane	107-06-2	N.D.	0.29	418.51
11995	Ethylbenzene	100-41-4	46	0.19	418.51
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.24	418.51
11995	Toluene	108-88-3	53	0.29	418.51
11995	Xylene (Total)	1330-20-7	290	0.49	418.51
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>
10726	1-Methylnaphthalene	90-12-0	2.2	0.019	5
10726	2-Methylnaphthalene	91-57-6	5.8	0.058	5
10726	Naphthalene	91-20-3	6.4	0.039	5
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>
02005	NWTPH-GX Soil C7-C12	n.a.	6,400	180	16977.1
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>
08272	Diesel Range Organics C12-C24	n.a.	250	4.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>
06955	Lead	7439-92-1	17.4	0.677	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>
00111	Moisture	n.a.	13.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183302AA	11/27/2018 04:02	Patrick T Herres	418.51
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/13/2018 11:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/13/2018 11:40	Client Supplied	1

**Sample Description:** SRI4B-5-S-21-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902165  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/13/2018 11:40

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/13/2018 11:40	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLF026	11/30/2018 03:54	Anthony P Bauer	5
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLF026	11/23/2018 10:17	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/21/2018 08:15	Jeremy C Giffin	16977.1
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/13/2018 11:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183250032A	11/28/2018 06:15	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183250032A	11/26/2018 07:00	Joshua S Ruth	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404905	11/25/2018 21:10	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404905	11/20/2018 07:35	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** SRI4B-5-S-29-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9902166  
ELLE Group #: 2009868  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/13/2018 12:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	1.5	0.042	59.48
11995	1,2-Dibromoethane	106-93-4	N.D.	0.033	59.48
11995	1,2-Dichloroethane	107-06-2	N.D.	0.050	59.48
11995	Ethylbenzene	100-41-4	0.96	0.033	59.48
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.042	59.48
11995	Toluene	108-88-3	5.0	0.050	59.48
11995	Xylene (Total)	1330-20-7	4.9	0.083	59.48

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: a re-analysis was performed outside of holding time and the surrogate recoveries were again outside of the QC acceptance limits.

<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.052	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.10	0.014	1
10726	Naphthalene	91-20-3	0.10	0.009	1

<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	45	1.5	117.51

<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1

<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.89	0.688	1

<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	28.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183302AA	11/27/2018 04:48	Patrick T Herres	59.48
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/13/2018 12:30	Client Supplied	1

**Sample Description:** SRI4B-5-S-29-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902166  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/15/2018 09:40

**Collection Date/Time:** 11/13/2018 12:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/13/2018 12:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/13/2018 12:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLF026	11/29/2018 16:28	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLF026	11/23/2018 10:17	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18325A34A	11/22/2018 01:55	Jeremy C Giffin	117.51
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/13/2018 12:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183250032A	11/28/2018 06:35	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183250032A	11/26/2018 07:00	Joshua S Ruth	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404905	11/25/2018 21:15	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404905	11/20/2018 07:35	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** SRI4B-5-S-40-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902167  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/13/2018 14:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	1.9	0.037	54.36
11995	1,2-Dibromoethane	106-93-4	N.D.	0.030	54.36
11995	1,2-Dichloroethane	107-06-2	N.D.	0.045	54.36
11995	Ethylbenzene	100-41-4	0.96	0.030	54.36
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.037	54.36
11995	Toluene	108-88-3	3.6	0.045	54.36
11995	Xylene (Total)	1330-20-7	6.4	0.075	54.36

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: a re-analysis was performed outside of holding time and the surrogate recoveries were again outside of the QC acceptance limits.

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.046	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.12	0.014	1
10726	Naphthalene	91-20-3	0.22	0.009	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	98	2.9	229.1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	16.5	2.87	5

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	27.3	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183302AA	11/27/2018 05:11	Patrick T Herres	54.36
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/13/2018 14:30	Client Supplied	1

**Sample Description:** SRI4B-5-S-40-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902167  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/13/2018 14:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/13/2018 14:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/13/2018 14:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLF026	11/29/2018 20:18	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLF026	11/23/2018 10:17	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/27/2018 01:50	Jeremy C Giffin	229.1
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/13/2018 14:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183250032A	11/28/2018 06:55	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183250032A	11/26/2018 07:00	Joshua S Ruth	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404905	11/25/2018 21:24	Elaine F Stoltzfus	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404905	11/20/2018 07:35	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** SRI4B-5-S-49.5-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9902168  
ELLE Group #: 2009868  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/13/2018 15:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	2.7	0.040	58.58
11995	1,2-Dibromoethane	106-93-4	N.D.	0.032	58.58
11995	1,2-Dichloroethane	107-06-2	N.D.	0.048	58.58
11995	Ethylbenzene	100-41-4	0.93	0.032	58.58
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.040	58.58
11995	Toluene	108-88-3	5.8	0.048	58.58
11995	Xylene (Total)	1330-20-7	6.3	0.080	58.58

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: a re-analysis was performed outside of holding time and the surrogate recoveries were again outside of the QC acceptance limits.

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.01	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.013	1
10726	Naphthalene	91-20-3	0.20	0.009	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	45	1.4	108.8

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	14.6	0.637	1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	26.4	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183302AA	11/27/2018 05:34	Patrick T Herres	58.58
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/13/2018 15:30	Client Supplied	1

**Sample Description:** SRI4B-5-S-49.5-181113 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9902168  
**ELLE Group #:** 2009868  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/15/2018 09:40

**Collection Date/Time:** 11/13/2018 15:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/13/2018 15:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/13/2018 15:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLF026	11/29/2018 20:43	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLF026	11/23/2018 10:17	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34B	11/27/2018 20:08	Jeremy C Giffin	108.8
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/13/2018 15:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183250032A	11/28/2018 07:15	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183250032A	11/26/2018 07:00	Joshua S Ruth	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404905	11/25/2018 21:27	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404905	11/20/2018 07:35	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1



**Sample Description:** QA-10-T-181113 NA Water  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: WW 9902169  
ELLE Group #: 2009868  
Matrix: Water

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/13/2018 09:20

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	F183251AA	11/21/2018 15:01	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F183251AA	11/21/2018 15:00	Alexander D Sechrist	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18324B20A	11/20/2018 23:24	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18324B20A	11/20/2018 23:23	Linda C Pape	1

**Sample Description:** UST-9-S-7.5-181112 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9902170  
ELLE Group #: 2009868  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/12/2018 14:32

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0007	1.21
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0006	1.21
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0009	1.21
11995	Ethylbenzene	100-41-4	N.D.	0.0006	1.21
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0007	1.21
11995	Toluene	108-88-3	0.0009	0.0009	1.21
11995	Xylene (Total)	1330-20-7	N.D.	0.001	1.21
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.008	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.012	0.012	1
10726	Naphthalene	91-20-3	N.D.	0.008	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.4	33.56
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	17.3	0.658	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	17.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183253AA	11/22/2018 05:23	Patrick T Herres	1.21
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832051935	11/12/2018 14:32	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832051935	11/12/2018 14:32	Client Supplied	1

**Sample Description:** UST-9-S-7.5-181112 Grab Soil  
**Facility# 96590**  
**232 East Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #: SW 9902170**  
**ELLE Group #: 2009868**  
**Matrix: Soil**

**Project Name:** 96590

**Submittal Date/Time:** 11/15/2018 09:40  
**Collection Date/Time:** 11/12/2018 14:32

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832051935	11/12/2018 14:32	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18325SLF026	11/29/2018 21:07	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18325SLF026	11/23/2018 10:17	Kate E Lutte	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18324A34A	11/20/2018 23:30	Jeremy C Giffin	33.56
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832051935	11/12/2018 14:32	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183240048A	11/30/2018 03:02	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183240048A	11/21/2018 17:45	Elizabeth E Donovan	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183221404905	11/25/2018 21:33	Elaine F Stoltzfus	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183221404905	11/20/2018 07:35	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18325820007B	11/21/2018 15:43	Larry E Bevins	1

**Sample Description:** QA-11-T-181114 NA Water  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: WW 9902171  
ELLE Group #: 2009868  
Matrix: Water

**Project Name:** 96590

Submittal Date/Time: 11/15/2018 09:40  
Collection Date/Time: 11/14/2018 08:30

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	F183251AA	11/21/2018 15:23	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F183251AA	11/21/2018 15:22	Alexander D Sechrist	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18325B20A	11/21/2018 18:10	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18325B20A	11/21/2018 18:09	Linda C Pape	1

## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result mg/kg	MDL mg/kg
Batch number: A183253AA	Sample number(s): 9902156-9902157,9902170	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
Batch number: A183281AA	Sample number(s): 9902155	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
Batch number: A183301AA	Sample number(s): 9902161-9902162	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
Batch number: Q183301AA	Sample number(s): 9902154,9902158-9902160	
Benzene	N.D.	0.025
1,2-Dibromoethane	N.D.	0.020
1,2-Dichloroethane	N.D.	0.030
Ethylbenzene	N.D.	0.020
Methyl Tertiary Butyl Ether	N.D.	0.025
Toluene	N.D.	0.030
Xylene (Total)	N.D.	0.050
Batch number: Q183302AA	Sample number(s): 9902163,9902165-9902168	
Benzene	N.D.	0.025
1,2-Dibromoethane	N.D.	0.020
1,2-Dichloroethane	N.D.	0.030
Ethylbenzene	N.D.	0.020

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

### Method Blank (continued)

Analysis Name	Result	MDL
	<b>mg/kg</b>	<b>mg/kg</b>
Methyl Tertiary Butyl Ether	N.D.	0.025
Toluene	N.D.	0.030
Xylene (Total)	N.D.	0.050
Batch number: R183312AA	Sample number(s): 9902164	
Benzene	N.D.	0.025
1,2-Dibromoethane	N.D.	0.020
1,2-Dichloroethane	N.D.	0.030
Ethylbenzene	N.D.	0.020
Methyl Tertiary Butyl Ether	N.D.	0.025
Toluene	N.D.	0.030
Xylene (Total)	N.D.	0.050
	<b>ug/l</b>	<b>ug/l</b>
Batch number: F183251AA	Sample number(s): 9902169,9902171	
Benzene	N.D.	0.2
1,2-Dibromoethane	N.D.	0.2
1,2-Dichloroethane	N.D.	0.3
Ethylbenzene	N.D.	0.4
Methyl Tertiary Butyl Ether	N.D.	0.2
Toluene	N.D.	0.2
Xylene (Total)	N.D.	1
	<b>mg/kg</b>	<b>mg/kg</b>
Batch number: 18325SLE026	Sample number(s): 9902154-9902164	
1-Methylnaphthalene	N.D.	0.003
2-Methylnaphthalene	N.D.	0.010
Naphthalene	N.D.	0.007
Batch number: 18325SLF026	Sample number(s): 9902165-9902168,9902170	
1-Methylnaphthalene	N.D.	0.003
2-Methylnaphthalene	N.D.	0.010
Naphthalene	N.D.	0.007
Batch number: 18324A34A	Sample number(s): 9902155-9902156,9902161-9902165,9902170	
NWTPH-GX Soil C7-C12	N.D.	0.2
Batch number: 18325A34A	Sample number(s): 9902154,9902166	
NWTPH-GX Soil C7-C12	N.D.	0.2
Batch number: 18330A34A	Sample number(s): 9902157-9902160,9902167	
NWTPH-GX Soil C7-C12	N.D.	0.2
Batch number: 18330A34B	Sample number(s): 9902168	
NWTPH-GX Soil C7-C12	N.D.	0.2
	<b>ug/l</b>	<b>ug/l</b>
Batch number: 18324B20A	Sample number(s): 9902169	

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

### Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
NWTPH-Gx water C7-C12	N.D.	19
Batch number: 18325B20A	Sample number(s): 9902171	
NWTPH-Gx water C7-C12	N.D.	19
	mg/kg	mg/kg
Batch number: 183240018A	Sample number(s): 9902154-9902155	
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183240048A	Sample number(s): 9902156-9902160,9902170	
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183250032A	Sample number(s): 9902161-9902168	
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183221404901	Sample number(s): 9902154-9902162	
Lead	N.D.	0.600
Batch number: 183221404902	Sample number(s): 9902163	
Lead	N.D.	0.600
Batch number: 183221404905	Sample number(s): 9902164-9902168,9902170	
Lead	N.D.	0.600

### LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: A183253AA	Sample number(s): 9902156-9902157,9902170								
Benzene	0.0200	0.0198	0.0200	0.0198	99	99	80-120	0	30
1,2-Dibromoethane	0.0200	0.0196	0.0200	0.0193	98	97	76-120	2	30
1,2-Dichloroethane	0.0200	0.0214	0.0200	0.0210	107	105	71-128	2	30
Ethylbenzene	0.0200	0.0193	0.0200	0.0193	96	97	78-120	0	30
Methyl Tertiary Butyl Ether	0.0200	0.0164	0.0200	0.0168	82	84	72-120	2	30
Toluene	0.0200	0.0192	0.0200	0.0191	96	96	80-120	0	30
Xylene (Total)	0.0600	0.0562	0.0600	0.0564	94	94	75-120	0	30
Batch number: A183281AA	Sample number(s): 9902155								
Benzene	0.0200	0.0181	0.0200	0.0206	91	103	80-120	13	30
1,2-Dibromoethane	0.0200	0.0181	0.0200	0.0199	90	100	76-120	10	30
1,2-Dichloroethane	0.0200	0.0189	0.0200	0.0212	94	106	71-128	11	30

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylbenzene	0.0200	0.0176	0.0200	0.0199	88	99	78-120	12	30
Methyl Tertiary Butyl Ether	0.0200	0.0149	0.0200	0.0166	75	83	72-120	11	30
Toluene	0.0200	0.0178	0.0200	0.0199	89	99	80-120	11	30
Xylene (Total)	0.0600	0.0517	0.0600	0.0585	86	97	75-120	12	30
Batch number: A183301AA	Sample number(s): 9902161-9902162								
Benzene	0.0200	0.0193	0.0200	0.0197	96	99	80-120	2	30
1,2-Dibromoethane	0.0200	0.0184	0.0200	0.0189	92	95	76-120	3	30
1,2-Dichloroethane	0.0200	0.0200	0.0200	0.0208	100	104	71-128	3	30
Ethylbenzene	0.0200	0.0187	0.0200	0.0190	94	95	78-120	2	30
Methyl Tertiary Butyl Ether	0.0200	0.0160	0.0200	0.0165	80	82	72-120	3	30
Toluene	0.0200	0.0184	0.0200	0.0188	92	94	80-120	2	30
Xylene (Total)	0.0600	0.0549	0.0600	0.0555	91	93	75-120	1	30
Batch number: Q183301AA	Sample number(s): 9902154,9902158-9902160								
Benzene	1.00	1.05	1.00	1.08	105	108	80-120	3	30
1,2-Dibromoethane	1.00	0.990	1.00	1.01	99	101	76-120	2	30
1,2-Dichloroethane	1.00	1.17	1.00	1.19	117	119	71-128	2	30
Ethylbenzene	1.00	1.01	1.00	1.01	101	101	78-120	0	30
Methyl Tertiary Butyl Ether	1.00	1.03	1.00	1.07	103	107	72-120	3	30
Toluene	1.00	1.00	1.00	1.09	100	109	80-120	8	30
Xylene (Total)	3.00	2.92	3.00	2.95	97	98	75-120	1	30
Batch number: Q183302AA	Sample number(s): 9902163,9902165-9902168								
Benzene	1.00	1.08	1.00	1.06	108	106	80-120	2	30
1,2-Dibromoethane	1.00	1.02	1.00	1.02	102	102	76-120	0	30
1,2-Dichloroethane	1.00	1.19	1.00	1.18	119	118	71-128	1	30
Ethylbenzene	1.00	1.01	1.00	1.02	101	102	78-120	1	30
Methyl Tertiary Butyl Ether	1.00	1.06	1.00	1.05	106	105	72-120	0	30
Toluene	1.00	1.03	1.00	1.01	103	101	80-120	2	30
Xylene (Total)	3.00	2.94	3.00	2.95	98	98	75-120	0	30
Batch number: R183312AA	Sample number(s): 9902164								
Benzene	1.00	1.18	1.00	1.16	118	116	80-120	2	30
1,2-Dibromoethane	1.00	1.11	1.00	1.09	111	109	76-120	2	30
1,2-Dichloroethane	1.00	1.18	1.00	1.17	118	117	71-128	1	30
Ethylbenzene	1.00	1.06	1.00	1.08	106	108	78-120	2	30
Methyl Tertiary Butyl Ether	1.00	1.09	1.00	1.10	109	110	72-120	1	30
Toluene	1.00	1.14	1.00	1.09	114	109	80-120	4	30
Xylene (Total)	3.00	3.34	3.00	3.34	111	111	75-120	0	30
	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>					
Batch number: F183251AA	Sample number(s): 9902169,9902171								
Benzene	20	22.24			111		80-120		
1,2-Dibromoethane	20	20.75			104		77-120		

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	20	17.74			89		73-124		
Ethylbenzene	20	21.3			107		80-120		
Methyl Tertiary Butyl Ether	20	20.68			103		69-122		
Toluene	20	22.15			111		80-120		
Xylene (Total)	60	63.74			106		80-120		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 18325SLE026	Sample number(s): 9902154-9902164								
1-Methylnaphthalene	1.67	1.55			93		81-117		
2-Methylnaphthalene	1.67	1.56			93		80-111		
Naphthalene	1.67	1.56			94		81-111		
Batch number: 18325SLF026	Sample number(s): 9902165-9902168,9902170								
1-Methylnaphthalene	1.67	1.61			97		81-117		
2-Methylnaphthalene	1.67	1.59			96		80-111		
Naphthalene	1.67	1.51			91		81-111		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 18324A34A	Sample number(s): 9902155-9902156,9902161-9902165,9902170								
NWTPH-GX Soil C7-C12	11	10.17	11	9.22	92	84	55-145	10	30
Batch number: 18325A34A	Sample number(s): 9902154,9902166								
NWTPH-GX Soil C7-C12	11	7.82	11	8.32	71	76	55-145	6	30
Batch number: 18330A34A	Sample number(s): 9902157-9902160,9902167								
NWTPH-GX Soil C7-C12	11	10.9	11	11.26	99	102	55-145	3	30
Batch number: 18330A34B	Sample number(s): 9902168								
NWTPH-GX Soil C7-C12	11	10.9	11	11.26	99	102	55-145	3	30
	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>					
Batch number: 18324B20A	Sample number(s): 9902169								
NWTPH-Gx water C7-C12	1100	1224.9	1100	1212.13	111	110	64-131	1	30
Batch number: 18325B20A	Sample number(s): 9902171								
NWTPH-Gx water C7-C12	1100	1125.8			102		64-131		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 183240018A	Sample number(s): 9902154-9902155								
Diesel Range Organics C12-C24	133.36	107.96			81		61-115		
Batch number: 183240048A	Sample number(s): 9902156-9902160,9902170								
Diesel Range Organics C12-C24	133.36	99.7			75		61-115		
Batch number: 183250032A	Sample number(s): 9902161-9902168								
Diesel Range Organics C12-C24	133.36	95.68			72		61-115		

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 183221404901 Lead	Sample number(s): 9902154-9902162				106		90-115		
	15	15.97							
Batch number: 183221404902 Lead	Sample number(s): 9902163				94		90-115		
	15	14.08							
Batch number: 183221404905 Lead	Sample number(s): 9902164-9902168,9902170				97		90-115		
	15	14.56							
	%	%	%	%					
Batch number: 18325820007B Moisture	Sample number(s): 9902154-9902168,9902170				100		99-101		
	89.5	89.4							

### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 183240048A Diesel Range Organics C12-C24	Sample number(s): 9902156-9902160,9902170 UNSPK: 9902158					69		61-115		
	18.66	131.35	109.09							
Batch number: 183250032A Diesel Range Organics C12-C24	Sample number(s): 9902161-9902168 UNSPK: 9902161					87		61-115		
	8.64	132.92	124.33							

### Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 183240048A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	Sample number(s): 9902156-9902160,9902170 BKG: 9902158			
	18.66	29.9	46* (1)	20
	N.D.	N.D.	0 (1)	20
Batch number: 183250032A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	Sample number(s): 9902161-9902168 BKG: 9902161			
	8.64	20.07	80* (1)	20
	N.D.	12.75	200* (1)	20

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

### Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc %	DUP Conc %	DUP RPD	DUP RPD Max
Batch number: 18325820007B	Sample number(s): 9902154-9902168,9902170 BKG: 9902162			
Moisture	2.59	2.55	1	5

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183253AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9902156	104	108	96	91
9902157	96	101	109	105
9902170	103	103	93	88
Blank	106	106	95	92
LCS	101	103	99	104
LCSD	99	100	100	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183281AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9902155	102	111	92	99
Blank	103	105	95	94
LCS	100	100	99	103
LCSD	99	102	99	101
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183301AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9902161	110	108	90	96
9902162	108	109	90	94
Blank	104	106	93	92
LCS	100	102	99	104
LCSD	99	102	99	104
Limits:	50-141	54-135	52-141	50-131

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: F183251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9902169	93	98	101	95
9902171	92	97	101	95
Blank	94	98	102	95
LCS	92	102	104	96
Limits:	80-120	80-120	80-120	80-120

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: Q183301AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9902154	64	67	64	67
9902158	64	67	64	69
9902159	56	60	55	61
9902160	57	59	56	72
Blank	99	103	94	97
LCS	98	99	92	98
LCSD	101	101	99	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: Q183302AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9902163	60	66	83	128
9902165	69	77	72	66
9902166	48*	52*	49*	58
9902167	45*	50*	46*	66
9902168	47*	51*	48*	61
Blank	98	103	94	98
LCS	100	102	95	98
LCSD	98	100	92	99
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: R183312AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9902164	57	59	69	93
Blank	109	112	100	92
LCS	104	105	100	95
LCSD	105	105	96	96

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: R183312AA

Limits: 50-141 54-135 52-141 50-131

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18325SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9902154	80	81	78
9902155	85	87	86
9902156	79	87	85
9902157	78	84	85
9902158	80	85	87
9902159	85	85	86
9902160	83	87	84
9902161	79	79	81
9902162	82	88	85
9902163	99	84	90
9902164	114	79	86
Blank	85	92	93
LCS	83	88	87

Limits: 49-118 57-116 55-118

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18325SLF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9902165	82	78	80
9902166	89	93	94
9902167	86	89	90
9902168	88	89	93
9902170	108	83	87
Blank	89	92	94
LCS	90	95	96

Limits: 49-118 57-116 55-118

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18324A34A

	Trifluorotoluene-F
9902155	93
9902156	123
9902161	122
9902162	130
9902163	4485*

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-GX Soil C7-C12

Batch number: 18324A34A

	Trifluorotoluene-F
9902164	5540*
9902165	2656*
9902170	112
Blank	93
LCS	97
LCSD	91

Limits: 50-150

Analysis Name: NWTPH-Gx water C7-C12

Batch number: 18324B20A

	Trifluorotoluene-F
9902169	85
Blank	85
LCS	94
LCSD	85

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12

Batch number: 18325A34A

	Trifluorotoluene-F
9902154	118
9902166	77
Blank	91
LCS	76
LCSD	79

Limits: 50-150

Analysis Name: NWTPH-Gx water C7-C12

Batch number: 18325B20A

	Trifluorotoluene-F
9902171	85
Blank	85
LCS	93

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12

Batch number: 18330A34A

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-GX Soil C7-C12

Batch number: 18330A34A

Trifluorotoluene-F	
9902157	90
9902158	143
9902159	69
9902160	60
9902167	138
Blank	90
LCS	111
LCSD	108

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12

Batch number: 18330A34B

Trifluorotoluene-F	
9902168	54
Blank	95
LCS	111
LCSD	108

Limits: 50-150

Analysis Name: NWTPH-Dx soil

Batch number: 183240018A

Orthoterphenyl	
9902154	112
9902155	111
Blank	101
LCS	105

Limits: 50-150

Analysis Name: NWTPH-Dx soil

Batch number: 183240048A

Orthoterphenyl	
9902156	94
9902157	95
9902158	92
9902159	83
9902160	94
9902170	100
Blank	98
DUP	81

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/02/2018 15:05

Group Number: 2009868

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Dx soil  
Batch number: 183240048A

Orthoterphenyl

LCS	98
MS	99

Limits: 50-150

Analysis Name: NWTPH-Dx soil  
Batch number: 183250032A

Orthoterphenyl

9902161	95
9902162	97
9902163	91
9902164	89
9902165	98
9902166	90
9902167	75
9902168	86
Blank	93
DUP	96
LCS	99
MS	100

Limits: 50-150

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories Environmental**

Acct. # 11255

For Eurofins Lancaster Laboratories Environmental use only  
 Group # 20098108 Sample # 9900154-71  
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks	
Facility # <u>96590</u>		WBS		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Air		<input type="checkbox"/> Ground <input type="checkbox"/> Surface		Total Number of Containers <input type="checkbox"/> BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead <input type="checkbox"/> Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>EDB/EDC 8260B</u> <u>Moisture</u> <u>Naphthalenes by 8270B*</u>										SCR #: _____	
Site Address <u>232 E Wordin Ave, Chelan, WA</u>																			
Chevron PM <u>Eric Hetrick</u>		Lead Consultant <u>Leidos</u>																	
Consultant/Office <u>Leidos - Bothell, WA</u>																			
Consultant Project Mgr. <u>Russ Shropshire</u>																			
Consultant Phone # <u>425-482-3323</u>																			
Sampler <u>R. Otteman, M. Gay, and T. Dube</u>				3 Grab <input type="checkbox"/> Composite <input type="checkbox"/>		Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits													
Sample Identification		Collected																	
		Date	Time																
<u>SRI 4B-6-9-111218</u>		<u>11/12/18</u>	<u>0945</u>																
<u>SRI 4B-6-14.5-111218</u>		<u>11/12/18</u>	<u>1020</u>																
<u>SRI 4B-7-8.5-111218</u>		<u>11/12/18</u>	<u>1025</u>																
<u>SRI 4B-6-18-111218</u>		<u>11/12/18</u>	<u>1130</u>																
<u>SRI 4B-6-20-111218</u>		<u>11/12/18</u>	<u>1200</u>																
<u>SRI 4B-6-35-111218</u>		<u>11/12/18</u>	<u>1500</u>																
<u>SRI 4B-6-41.5-111218</u>		<u>11/12/18</u>	<u>1615</u>																
<u>SRI 4B-6</u>																			
<u>SRI 4B-5-9-111318</u>		<u>11/13/18</u>	<u>0930</u>																
<u>SRI 4B-5-10-111318</u>		<u>11/13/18</u>	<u>1000</u>																
<u>SRI 4B-5-14.5-111318</u>		<u>11/13/18</u>	<u>1015</u>																
<u>SRI 4B-5-16.5-111318</u>		<u>11/13/18</u>	<u>1050</u>																
<u>SRI 4B-5-21-111318</u>		<u>11/13/18</u>	<u>1140</u>																
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>Leidos</u>		Date <u>11/14/18</u>		Time <u>1130</u>		Received by _____		Date _____		Time _____					
Standard <input checked="" type="radio"/> 5 day 4 day 72 hour 48 hour 24 hour				Relinquished by _____		Date _____		Time _____		Received by _____		Date _____		Time _____					
8 Data Package (circle if required)				Relinquished by Commercial Carrier:		Temperature Upon Receipt <u>039.0</u> °C		Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Received by <u>[Signature]</u>		Date <u>11/15/18</u>		Time <u>940</u>					
Type I - Full				CVX-RTBU-FI_05 (default)		UPS <input checked="" type="checkbox"/> FedEx _____ Other _____													
Type VI (Raw Data)				Other: _____															

# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories  
Environmental**

Acct. # 11255 For Eurofins Lancaster Laboratories Environmental use only  
 Group # 2009868 Sample # 9902154-71  
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks																													
Facility # <u>90590</u> WBS				Sediment <input type="checkbox"/>		Ground <input type="checkbox"/>		Surface <input type="checkbox"/>		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>Total Number of Containers</b></p> <p><input type="checkbox"/> BTEX + MTBE    <input type="checkbox"/> 8021    <input type="checkbox"/> 8260    <input checked="" type="checkbox"/> Naphth</p> <p><input type="checkbox"/> 8260 full scan</p> </div> <div style="width: 45%;"> <p><b>Oxygenates</b></p> <p>NWTPH-GX <input type="checkbox"/></p> <p>NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/></p> <p>NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/></p> <p>WA VPH <input type="checkbox"/>    WA EPH <input type="checkbox"/></p> <p>Lead Total <input checked="" type="checkbox"/>    Diss. <input type="checkbox"/>    Method <u>GOLD</u></p> </div> </div> <p style="font-size: small; margin-top: 10px;"> <input type="checkbox"/> Results in Dry Weight  <input type="checkbox"/> J value reporting needed  <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds  <input type="checkbox"/> 8021 MTBE Confirmation  <input type="checkbox"/> Confirm MTBE + Naphthalene  <input type="checkbox"/> Confirm highest hit by 8260  <input type="checkbox"/> Confirm all hits by 8260  <input type="checkbox"/> Run _____ oxy's on highest hit  <input type="checkbox"/> Run _____ oxy's on all hits                 </p>										SCR #: _____																											
Site Address <u>232 E. Woodin Ave, Chelan, WA</u>				Potable <input type="checkbox"/>		NPDES <input type="checkbox"/>		Air <input type="checkbox"/>																																							
Chevron PM <u>Eric Hettrick</u>		Lead Consultant		Oil <input type="checkbox"/>		Water		Soil																																							
Consultant/Office <u>Leidos/Bothell, WA</u>				Composite		Grab		Soil																																							
Consultant Project Mgr. <u>Russ Shropshire</u>				Grab		Composite		Soil																																							
Consultant Phone # <u>425-482-3323</u>				Grab		Composite		Soil																																							
Sampler <u>R. Otteman and T. Duke</u>				Grab		Composite		Soil																																							
2 Sample Identification		Collected		Date		Time		Grab		Composite		Soil		Water		Oil		Total Number of Containers		BTEX + MTBE		8021		8260		Naphth		Oxygenates		NWTPH-GX		NWTPH-Dx with Silica Gel Cleanup		NWTPH-Dx without Silica Gel Cleanup		WA VPH		WA EPH		Lead		Total		Diss.		Method	
<u>SRI 4B-5-29-11/3/18</u>		<u>11/3/18</u>		<u>12:30</u>				<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<u>7</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<u>SRI 4B-5-40-11/3/18</u>		<u>11/3/18</u>		<u>14:30</u>				<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<u>7</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<u>SRI 4B-5-49.5-11/3/18</u>		<u>11/3/18</u>		<u>15:30</u>				<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<u>7</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>			
<u>TB-10-111318</u>		<u>11/13/18</u>		<u>09:20</u>				<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<u>4</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>			
<u>UST-9-7.5-111218</u>		<u>11/12/18</u>		<u>14:32</u>				<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<u>7</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>			
<u>TB-11-111418</u>		<u>11/14/18</u>		<u>08:30</u>				<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<u>4</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>					
<u>Morgan Valley</u>		<u>11/14/18</u>		<u>11/14/18</u>		<u>11:30</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<u>7</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>					
<u>Morgan Valley</u>		<u>11/14/18</u>		<u>11/14/18</u>		<u>11:30</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<u>7</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>					
<u>Morgan Valley</u>		<u>11/14/18</u>		<u>11/14/18</u>		<u>11:30</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<u>7</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>					
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>Morgan Valley Series</u>				Date <u>11/14/18</u>		Time <u>11:30</u>		Received by _____				Date _____		Time _____																													
Standard    5 day    4 day				Relinquished by _____				Date _____		Time _____		Received by _____				Date _____		Time _____																													
72 hour    48 hour    24 hour				Relinquished by Commercial Carrier:				UPS <input checked="" type="checkbox"/> FedEx _____    Other _____		Temperature Upon Receipt <u>0.3-1.0°C</u>		Received by <u>[Signature]</u>				Date <u>11/15/18</u>		Time <u>09:10</u>																													
8 Data Package (circle if required)				Type I - Full				Type VI (Raw Data)				EDD (circle if required)				CVX-RTBU-FL_05 (default)				Other: _____				Custody Seals Intact? <u>(Yes)</u> No																							

\* includes 1-methyl, and 2-methyl naphthalene.  
  
4 coolers  
Page 2 of 2



Client: Chevron

**Delivery and Receipt Information**

Delivery Method: UPS                      Arrival Timestamp: 11/15/2018 9:40  
 Number of Packages: 4                      Number of Projects: 1  
 State/Province of Origin: WA

**Arrival Condition Summary**

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	Yes
Samples Chilled:	Yes	VOA IDs (≥ 6mm):	See Below
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	8
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

VOA Vial IDs (Headspace ≥ 6mm): (2HCl) Trip blanks

*Unpacked by Ariel Garcia (15332) at 10:55 on 11/15/2018*

**Samples Chilled Details**

Thermometer Types:    *DT = Digital (Temp. Bottle)    IR = Infrared (Surface Temp)*    All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-03	1.0	DT	Wet	Y	Bagged	N
2	DT42-03	0.3	DT	Wet	Y	Bagged	N
3	DT42-03	0.7	DT	Wet	Y	Bagged	N
4	DT42-03	0.3	DT	Wet	Y	Bagged	N

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mL</b>	milliliter(s)
<b>C</b>	degrees Celsius	<b>MPN</b>	Most Probable Number
<b>cfu</b>	colony forming units	<b>N.D.</b>	non-detect
<b>CP Units</b>	cobalt-chloroplatinate units	<b>ng</b>	nanogram(s)
<b>F</b>	degrees Fahrenheit	<b>NTU</b>	nephelometric turbidity units
<b>g</b>	gram(s)	<b>pg/L</b>	picogram/liter
<b>IU</b>	International Units	<b>RL</b>	Reporting Limit
<b>kg</b>	kilogram(s)	<b>TNTC</b>	Too Numerous To Count
<b>L</b>	liter(s)	<b>µg</b>	microgram(s)
<b>lb.</b>	pound(s)	<b>µL</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>umhos/cm</b>	micromhos/cm
<b>meq</b>	milliequivalents	<b>MCL</b>	Maximum Contamination Limit
<b>mg</b>	milligram(s)		
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

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

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
P^	Concentration difference between the primary and confirmation column $> 40\%$ . The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.



## ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Chevron  
L4310  
6001 Bollinger Canyon Road  
San Ramon CA 94583

Report Date: December 09, 2018 11:55

**Project: 96590**

Account #: 11255  
Group Number: 2011047  
PO Number: 0015293335  
Release Number: HETRICK

State of Sample Origin: WA

Electronic Copy To Leidos

Attn: Russ Shropshire

Respectfully Submitted,



Amek Carter  
Specialist

(717) 556-7252

To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. Historical copies may be requested through your project manager.



## SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
SRI4B-3-S-22.5-181116 Grab Soil	11/16/2018 15:15	9907387
SRI4B-3-S-26-181116 Grab Soil	11/16/2018 16:05	9907388
SRI4B-3-S-31-181116 Grab Soil	11/16/2018 16:30	9907389
SRI4B-3-S-34-181116 Grab Soil	11/16/2018 16:50	9907390
SRI4B-3-S-39.5-181116 Grab Soil	11/16/2018 17:10	9907391
SRI4B-7-S-14.5-181117 Grab Soil	11/17/2018 09:30	9907392
SRI4B-7-S-20-181117 Grab Soil	11/17/2018 10:30	9907393
SRI4B-7-S-23-181117 Grab Soil	11/17/2018 10:50	9907394
DUP-4-S-181117 Grab Soil	11/17/2018 11:00	9907395
SRI4B-7-S-30-181117 Grab Soil	11/17/2018 11:45	9907396
SRI4B-7-S-37-181117 Grab Soil	11/17/2018 13:20	9907397
SRI4B-7-S-44.5-181117 Grab Soil	11/17/2018 13:30	9907398
DUP-5-SD-181117 Grab Soil	11/17/2018 13:40	9907399
SRI4B-1-S-39.5-181115 Grab Soil	11/15/2018 11:15	9907400
SRI4B-2-S-15-181115 Grab Soil	11/15/2018 14:30	9907401
SRI4B-2-S-9-181115 Grab Soil	11/15/2018 14:20	9907402
SRI4B-2-S-19-181115 Grab Soil	11/15/2018 15:10	9907403
SRI4B-2-S-23-181115 Grab Soil	11/15/2018 16:20	9907404
SRI4B-2-S-31.5-181116 Grab Soil	11/16/2018 08:30	9907405
SRI4B-2-S-33-181116 Grab Soil	11/16/2018 09:05	9907406
SRI4B-2-S-44.5-181116 Grab Soil	11/16/2018 10:15	9907407
SRI4B-3-S-9-181116 Grab Soil	11/16/2018 13:40	9907408
SRI4B-3-S-14.5-181116 Grab Soil	11/16/2018 14:00	9907409
SRI4B-4-S-14-181114 Grab Soil	11/14/2018 09:10	9907410
SRI4B-4-S-9-181114 Grab Soil	11/14/2018 08:50	9907411
SRI4B-4-S-16-181114 Grab Soil	11/14/2018 09:45	9907412
SRI4B-4-S-25-181114 Grab Soil	11/14/2018 10:50	9907413
SRI4B-4-S-30.5-181114 Grab Soil	11/14/2018 11:45	9907414
SRI4B-4-S-44.5-181114 Grab Soil	11/14/2018 13:30	9907415
SRI4B-1-S-9-181114 Grab Soil	11/14/2018 16:10	9907416
SRI4B-1-S-14.5-181114 Grab Soil	11/14/2018 16:30	9907417
SRI4B-1-S-19.5-181114 Grab Soil	11/14/2018 17:10	9907418
SRI4B-1-S-32.5-181115 Grab Soil	11/15/2018 10:00	9907419
SRI4B-1-S-33.5-181115 Grab Soil	11/15/2018 11:00	9907420
DUP-3-SD-181114 Grab Soil	11/14/2018 11:00	9907421
QA-12-T-181117 NA Water	11/17/2018 12:00	9907422
QA-13-T-181117 NA Water	11/17/2018 12:15	9907423
QA-14-T-181117 NA Water	11/17/2018 12:30	9907424
QA-15-T-181117 NA Water	11/17/2018 12:45	9907425
QA-16-T-181117 NA Water	11/17/2018 13:00	9907426

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

**Sample Description:** SRI4B-3-S-22.5-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907387  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/16/2018 15:15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.69	1056.58
11995	1,2-Dibromoethane	106-93-4	N.D.	0.55	1056.58
11995	1,2-Dichloroethane	107-06-2	N.D.	0.83	1056.58
11995	Ethylbenzene	100-41-4	N.D.	0.55	1056.58
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.69	1056.58
11995	Toluene	108-88-3	N.D.	0.83	1056.58
11995	Xylene (Total)	1330-20-7	2.8	1.4	1056.58

Reporting limits were raised due to interference from the sample matrix.

<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	1.4	0.004	1
10726	2-Methylnaphthalene	91-57-6	2.9	0.013	1
10726	Naphthalene	91-20-3	0.57	0.009	1

<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	5,000	120	9998.98

<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	110	5.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1

<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.61	0.699	1

<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	23.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183341AA	11/30/2018 23:31	Patrick T Herres	1056.58
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/16/2018 15:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/16/2018 15:15	Client Supplied	1



**Sample Description:** SRI4B-3-S-22.5-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907387  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/16/2018 15:15

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/16/2018 15:15	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	11/30/2018 15:50	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A34B	11/29/2018 21:13	Jeremy C Giffin	9998.98
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/16/2018 15:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183250032A	11/28/2018 07:35	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183250032A	11/26/2018 07:00	Joshua S Ruth	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183251404902	11/29/2018 07:43	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183251404902	11/26/2018 07:40	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002A	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-3-S-26-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907388  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/16/2018 16:05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.0008	0.0007	0.96
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0006	0.96
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0008	0.96
11995	Ethylbenzene	100-41-4	N.D.	0.0006	0.96
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0007	0.96
11995	Toluene	108-88-3	N.D.	0.0008	0.96
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.96
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.015	1
10726	Naphthalene	91-20-3	N.D.	0.01	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.5	0.4	30.92
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.9	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	15	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	10.2	0.653	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	32.4	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 12:57	Stephen C Nolte	0.96
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/16/2018 16:05	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/16/2018 16:05	Client Supplied	1

**Sample Description:** SRI4B-3-S-26-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907388  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/16/2018 16:05

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/16/2018 16:05	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	11/30/2018 16:14	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16A	11/29/2018 18:39	Jeremy C Giffin	30.92
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/16/2018 16:05	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183250032A	11/28/2018 07:55	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183250032A	11/26/2018 07:00	Joshua S Ruth	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183251404902	11/29/2018 07:46	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183251404902	11/26/2018 07:40	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002A	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-3-S-31-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907389  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/16/2018 16:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.040	58.38
11995	1,2-Dibromoethane	106-93-4	N.D.	0.032	58.38
11995	1,2-Dichloroethane	107-06-2	N.D.	0.048	58.38
11995	Ethylbenzene	100-41-4	N.D.	0.032	58.38
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.040	58.38
11995	Toluene	108-88-3	N.D.	0.048	58.38
11995	Xylene (Total)	1330-20-7	N.D.	0.081	58.38

Reporting limits were raised due to interference from the sample matrix.

<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	N.D.	0.009	1

<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	1,700	72	5691.86

<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	15	14	1

<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.27	0.568	1

<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	27.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183332AA	11/30/2018 06:21	Patrick T Herres	58.38
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/16/2018 16:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/16/2018 16:30	Client Supplied	1

**Sample Description:** SRI4B-3-S-31-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907389  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/16/2018 16:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/16/2018 16:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	11/30/2018 17:02	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A34A	11/29/2018 00:04	Jeremy C Giffin	5691.86
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/16/2018 16:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310009A	11/29/2018 11:27	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310009A	11/27/2018 18:41	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183251404902	11/29/2018 07:49	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183251404902	11/26/2018 07:40	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002A	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-3-S-34-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907390  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/16/2018 16:50

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0006	0.89
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.89
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	0.89
11995	Ethylbenzene	100-41-4	N.D.	0.0005	0.89
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.89
11995	Toluene	108-88-3	0.0008	0.0007	0.89
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.89
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.005	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.013	1
10726	Naphthalene	91-20-3	N.D.	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	1.2	0.3	26.76
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.83	0.766	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	26.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 13:20	Stephen C Nolte	0.89
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/16/2018 16:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/16/2018 16:50	Client Supplied	1

**Sample Description:** SRI4B-3-S-34-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907390  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/16/2018 16:50

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/16/2018 16:50	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	11/30/2018 17:26	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16A	11/29/2018 19:17	Jeremy C Giffin	26.76
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/16/2018 16:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310009A	11/29/2018 12:27	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310009A	11/27/2018 18:41	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183251404902	11/29/2018 07:52	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183251404902	11/26/2018 07:40	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002A	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-3-S-39.5-181116 Grab Soil  
**Facility# 96590**  
**232 East Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #:** SW 9907391  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/16/2018 17:10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.006	0.0007	1
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	1
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0008	1
11995	Ethylbenzene	100-41-4	0.0006	0.0005	1
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0007	1
11995	Toluene	108-88-3	0.002	0.0008	1
11995	Xylene (Total)	1330-20-7	0.007	0.001	1
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.032	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.025	0.013	1
10726	Naphthalene	91-20-3	0.064	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	1.9	0.4	32.63
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.61	0.569	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	26.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 13:42	Stephen C Nolte	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/16/2018 17:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/16/2018 17:10	Client Supplied	1



**Sample Description:** SRI4B-3-S-39.5-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907391  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/16/2018 17:10

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/16/2018 17:10	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	11/30/2018 17:51	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16A	11/29/2018 19:54	Jeremy C Giffin	32.63
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/16/2018 17:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310009A	11/29/2018 12:47	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310009A	11/27/2018 18:41	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183251404902	11/29/2018 07:55	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183251404902	11/26/2018 07:40	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002A	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-7-S-14.5-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907392  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/17/2018 09:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0004	0.86
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.86
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.86
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.86
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0004	0.86
11995	Toluene	108-88-3	N.D.	0.0005	0.86
11995	Xylene (Total)	1330-20-7	N.D.	0.0009	0.86
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.2	22.47
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	10	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.14	0.586	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	2.5	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 14:05	Stephen C Nolte	0.86
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/17/2018 09:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/17/2018 09:30	Client Supplied	1

**Sample Description:** SRI4B-7-S-14.5-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907392  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/17/2018 09:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/17/2018 09:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	11/27/2018 21:04	Anthony P Bauer	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16B	11/30/2018 18:40	Jeremy C Giffin	22.47
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/17/2018 09:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310009A	11/29/2018 13:07	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310009A	11/27/2018 18:41	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183251404902	11/29/2018 07:58	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183251404902	11/26/2018 07:40	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002A	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-7-S-20-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907393  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/17/2018 10:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.037	0.032	51.38
11995	1,2-Dibromoethane	106-93-4	N.D.	0.026	51.38
11995	1,2-Dichloroethane	107-06-2	N.D.	0.038	51.38
11995	Ethylbenzene	100-41-4	1.7	0.026	51.38
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.032	51.38
11995	Toluene	108-88-3	N.D.	0.038	51.38
11995	Xylene (Total)	1330-20-7	2.5	0.064	51.38
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.30	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.95	0.012	1
10726	Naphthalene	91-20-3	0.69	0.008	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	350	5.8	507.1
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	20	5.0	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	6.31	0.559	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	19.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183332AA	11/30/2018 00:37	Patrick T Herres	51.38
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/17/2018 10:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/17/2018 10:30	Client Supplied	1

**Sample Description:** SRI4B-7-S-20-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907393  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/17/2018 10:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/17/2018 10:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	11/30/2018 23:06	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16B	11/30/2018 22:35	Jeremy C Giffin	507.1
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/17/2018 10:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310009A	11/29/2018 13:27	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310009A	11/27/2018 18:41	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183251404902	11/29/2018 08:01	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183251404902	11/26/2018 07:40	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002A	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-7-S-23-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907394  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/17/2018 10:50

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.14	0.0007	0.99
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0006	0.99
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0008	0.99
11995	Ethylbenzene	100-41-4	0.71	0.033	59
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0007	0.99
11995	Toluene	108-88-3	0.019	0.0008	0.99
11995	Xylene (Total)	1330-20-7	0.77	0.001	0.99
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.015	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.055	0.014	1
10726	Naphthalene	91-20-3	0.067	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	13	0.4	28
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	10.2	0.628	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	28.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183331AA	11/29/2018 15:14	Stephen C Nolte	59
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183333AA	11/30/2018 01:02	Patrick T Herres	0.99
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/17/2018 10:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/17/2018 10:50	Client Supplied	1

**Sample Description:** SRI4B-7-S-23-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907394  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/17/2018 10:50

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/17/2018 10:50	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	11/30/2018 23:30	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16B	11/30/2018 19:26	Jeremy C Giffin	28
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/17/2018 10:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310009A	11/29/2018 13:47	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310009A	11/27/2018 18:41	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183251404902	11/29/2018 08:04	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183251404902	11/26/2018 07:40	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002A	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** DUP-4-S-181117 Grab Soil  
**Facility#** 96590  
 232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907395  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/17/2018 11:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.16	0.0006	0.93
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.93
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0008	0.93
11995	Ethylbenzene	100-41-4	0.82	0.031	56.26
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.93
11995	Toluene	108-88-3	0.017	0.0008	0.93
11995	Xylene (Total)	1330-20-7	0.59	0.001	0.93
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.017	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.060	0.014	1
10726	Naphthalene	91-20-3	0.084	0.009	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	13	0.4	29.16
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	7.32	0.790	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	27.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183331AA	11/29/2018 15:38	Stephen C Nolte	56.26
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183333AA	11/30/2018 01:24	Patrick T Herres	0.93
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/17/2018 11:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/17/2018 11:00	Client Supplied	1



**Sample Description:** DUP-4-S-181117 Grab Soil  
**Facility#** 96590  
 232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907395  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/17/2018 11:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/17/2018 11:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	11/30/2018 23:54	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16B	11/30/2018 20:04	Jeremy C Giffin	29.16
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/17/2018 11:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310009A	11/29/2018 14:46	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310009A	11/27/2018 18:41	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 06:13	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002A	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-7-S-30-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907396  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/17/2018 11:45

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.50	0.036	53.43
11995	1,2-Dibromoethane	106-93-4	N.D.	0.029	53.43
11995	1,2-Dichloroethane	107-06-2	N.D.	0.043	53.43
11995	Ethylbenzene	100-41-4	20	0.029	53.43
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.036	53.43
11995	Toluene	108-88-3	0.067	0.043	53.43
11995	Xylene (Total)	1330-20-7	79	0.72	534.3
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.95	0.004	1
10726	2-Methylnaphthalene	91-57-6	2.0	0.013	1
10726	Naphthalene	91-20-3	3.0	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	180	3.6	287.11
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	8.1	5.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.16	0.727	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	26.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183332AA	11/30/2018 01:00	Patrick T Herres	53.43
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183341AA	11/30/2018 23:54	Patrick T Herres	534.3
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/17/2018 11:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/17/2018 11:45	Client Supplied	1

**Sample Description:** SRI4B-7-S-30-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907396  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/17/2018 11:45

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/17/2018 11:45	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	12/01/2018 00:18	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16B	11/30/2018 23:13	Jeremy C Giffin	287.11
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/17/2018 11:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310009A	11/29/2018 15:06	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310009A	11/27/2018 18:41	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 06:33	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002A	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-7-S-37-181117 Grab Soil  
**Facility# 96590**  
**232 East Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #:** SW 9907397  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/17/2018 13:20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.083	0.0006	0.85
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.85
11995	1,2-Dichloroethane	107-06-2	0.0009	0.0007	0.85
11995	Ethylbenzene	100-41-4	0.036	0.0005	0.85
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.85
11995	Toluene	108-88-3	0.003	0.0007	0.85
11995	Xylene (Total)	1330-20-7	0.043	0.001	0.85
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.035	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.065	0.013	1
10726	Naphthalene	91-20-3	0.20	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	4.9	0.3	27.71
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.60	0.694	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	25.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 16:44	Stephen C Nolte	0.85
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/17/2018 13:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/17/2018 13:20	Client Supplied	1

**Sample Description:** SRI4B-7-S-37-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907397  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/17/2018 13:20

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/17/2018 13:20	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	12/01/2018 00:42	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16B	11/30/2018 20:42	Jeremy C Giffin	27.71
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/17/2018 13:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310009A	11/29/2018 15:26	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310009A	11/27/2018 18:41	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 06:41	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002B	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-7-S-44.5-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907398  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/17/2018 13:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.11	0.0006	0.88
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.88
11995	1,2-Dichloroethane	107-06-2	0.002	0.0007	0.88
11995	Ethylbenzene	100-41-4	0.003	0.0005	0.88
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.88
11995	Toluene	108-88-3	0.006	0.0007	0.88
11995	Xylene (Total)	1330-20-7	0.082	0.001	0.88
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.019	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.013	1
10726	Naphthalene	91-20-3	0.19	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	6.8	0.4	28.22
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.04	0.591	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	25.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 17:06	Stephen C Nolte	0.88
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/17/2018 13:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/17/2018 13:30	Client Supplied	1

**Sample Description:** SRI4B-7-S-44.5-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907398  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/17/2018 13:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/17/2018 13:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	12/01/2018 01:06	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16B	11/30/2018 21:20	Jeremy C Giffin	28.22
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/17/2018 13:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310009A	11/29/2018 15:46	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310009A	11/27/2018 18:41	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 06:44	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002B	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** DUP-5-SD-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907399  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/17/2018 13:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.099	0.0006	0.91
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.91
11995	1,2-Dichloroethane	107-06-2	0.002	0.0008	0.91
11995	Ethylbenzene	100-41-4	0.003	0.0005	0.91
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.91
11995	Toluene	108-88-3	0.006	0.0008	0.91
11995	Xylene (Total)	1330-20-7	0.070	0.001	0.91
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.020	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	0.21	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	7.3	0.4	28.67
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.54	0.641	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	28.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

## Sample Comments

State of Washington Lab Certification No. C457

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 17:29	Stephen C Nolte	0.91
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/17/2018 13:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/17/2018 13:40	Client Supplied	1



**Sample Description:** DUP-5-SD-181117 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907399  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/17/2018 13:40

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/17/2018 13:40	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	12/01/2018 01:30	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16B	11/30/2018 21:57	Jeremy C Giffin	28.67
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/17/2018 13:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310026A	11/29/2018 17:25	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310026A	11/28/2018 02:00	Sherry L Morrow	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 06:47	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002B	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-1-S-39.5-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907400  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/15/2018 11:15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0006	0.92
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.92
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	0.92
11995	Ethylbenzene	100-41-4	N.D.	0.0005	0.92
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.92
11995	Toluene	108-88-3	0.0008	0.0007	0.92
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.92
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.006	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.013	1
10726	Naphthalene	91-20-3	N.D.	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	1.3	0.3	28.07
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.82	0.691	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	25.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 14:28	Stephen C Nolte	0.92
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/15/2018 11:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/15/2018 11:15	Client Supplied	1

**Sample Description:** SRI4B-1-S-39.5-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907400  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/15/2018 11:15

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/15/2018 11:15	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	12/01/2018 01:54	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/26/2018 23:29	Jeremy C Giffin	28.07
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/15/2018 11:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310026A	11/29/2018 18:25	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310026A	11/28/2018 02:00	Sherry L Morrow	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 06:50	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002B	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-2-S-15-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907401  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/15/2018 14:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.0005	0.0005	0.9
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.9
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.9
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.9
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.9
11995	Toluene	108-88-3	0.0009	0.0006	0.9
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.9
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	13	0.2	21.95
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	15	4.5	1
08272	Heavy Range Organics C24-C40	n.a.	26	11	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.88	0.648	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	11.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

## Sample Comments

State of Washington Lab Certification No. C457

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 14:50	Stephen C Nolte	0.9
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/15/2018 14:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/15/2018 14:30	Client Supplied	1

**Sample Description:** SRI4B-2-S-15-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907401  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/15/2018 14:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/15/2018 14:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	12/01/2018 02:18	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/27/2018 08:15	Jeremy C Giffin	21.95
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/15/2018 14:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310026A	11/29/2018 23:23	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310026A	11/28/2018 02:00	Sherry L Morrow	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 06:53	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002B	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-2-S-9-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907402  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25

Collection Date/Time: 11/15/2018 14:20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0007	1.13
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	1.13
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0008	1.13
11995	Ethylbenzene	100-41-4	N.D.	0.0005	1.13
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0007	1.13
11995	Toluene	108-88-3	0.001	0.0008	1.13
11995	Xylene (Total)	1330-20-7	N.D.	0.001	1.13
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.012	1
10726	Naphthalene	91-20-3	N.D.	0.008	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.5	0.4	34.2
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	5.6	4.7	1
08272	Heavy Range Organics C24-C40	n.a.	130	12	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	4.20	0.680	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	16.0	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

## Sample Comments

State of Washington Lab Certification No. C457

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 15:13	Stephen C Nolte	1.13
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/15/2018 14:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/15/2018 14:20	Client Supplied	1

**Sample Description:** SRI4B-2-S-9-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907402  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/15/2018 14:20

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/15/2018 14:20	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	12/01/2018 02:42	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A34A	11/28/2018 19:24	Jeremy C Giffin	34.2
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/15/2018 14:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310026A	11/29/2018 23:43	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310026A	11/28/2018 02:00	Sherry L Morrow	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 06:55	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002B	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-2-S-19-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907403  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/15/2018 15:10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>
11995	Benzene	71-43-2	0.12	0.067	103.89
11995	1,2-Dibromoethane	106-93-4	N.D.	0.053	103.89
11995	1,2-Dichloroethane	107-06-2	N.D.	0.080	103.89
11995	Ethylbenzene	100-41-4	39	0.053	103.89
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.067	103.89
11995	Toluene	108-88-3	21	0.080	103.89
11995	Xylene (Total)	1330-20-7	230	1.3	1038.89
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>
10726	1-Methylnaphthalene	90-12-0	2.0	0.004	1
10726	2-Methylnaphthalene	91-57-6	4.2	0.013	1
10726	Naphthalene	91-20-3	6.1	0.043	5
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>
02005	NWTPH-GX Soil C7-C12	n.a.	1,600	61	5168.26
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>
08272	Diesel Range Organics C12-C24	n.a.	53	5.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>
06955	Lead	7439-92-1	8.83	0.627	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>
00111	Moisture	n.a.	22.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

## Sample Comments

State of Washington Lab Certification No. C457

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183331AA	11/29/2018 19:04	Stephen C Nolte	103.89
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183331AA	11/29/2018 19:27	Stephen C Nolte	1038.89
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/15/2018 15:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/15/2018 15:10	Client Supplied	1



**Sample Description:** SRI4B-2-S-19-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907403  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/15/2018 15:10

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/15/2018 15:10	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	12/01/2018 03:06	Brandon K Cordova	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	12/03/2018 15:51	Linda M Hartenstine	5
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Osvaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A34B	11/29/2018 20:03	Jeremy C Giffin	5168.26
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/15/2018 15:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310026A	11/29/2018 18:45	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310026A	11/28/2018 02:00	Sherry L Morrow	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 06:58	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002B	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-2-S-23-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907404  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/15/2018 16:20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.003	0.0006	0.93
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.93
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0008	0.93
11995	Ethylbenzene	100-41-4	0.025	0.0005	0.93
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.93
11995	Toluene	108-88-3	0.006	0.0008	0.93
11995	Xylene (Total)	1330-20-7	0.016	0.001	0.93
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.013	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.030	0.014	1
10726	Naphthalene	91-20-3	0.041	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	3.2	0.4	31.35
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.98	0.680	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	27.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 16:21	Stephen C Nolte	0.93
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/15/2018 16:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/15/2018 16:20	Client Supplied	1

**Sample Description:** SRI4B-2-S-23-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907404  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/15/2018 16:20

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/15/2018 16:20	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	12/01/2018 03:30	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A34B	11/29/2018 18:18	Jeremy C Giffin	31.35
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/15/2018 16:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310026A	11/29/2018 19:05	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310026A	11/28/2018 02:00	Sherry L Morrow	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 07:01	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002B	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-2-S-31.5-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907405  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/16/2018 08:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.042	58.48
11995	1,2-Dibromoethane	106-93-4	N.D.	0.033	58.48
11995	1,2-Dichloroethane	107-06-2	N.D.	0.050	58.48
11995	Ethylbenzene	100-41-4	0.075	0.033	58.48
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.042	58.48
11995	Toluene	108-88-3	N.D.	0.050	58.48
11995	Xylene (Total)	1330-20-7	0.14	0.083	58.48
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.059	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.021	0.014	1
10726	Naphthalene	91-20-3	N.D.	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	810	16	1192.83
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	8.75	0.838	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	29.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183331AA	11/29/2018 19:50	Stephen C Nolte	58.48
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/16/2018 08:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/16/2018 08:30	Client Supplied	1

**Sample Description:** SRI4B-2-S-31.5-181116 Grab Soil  
**Facility# 96590**  
**232 East Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #: SW 9907405**  
**ELLE Group #: 2011047**  
**Matrix: Soil**

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/16/2018 08:30

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/16/2018 08:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLB026	12/01/2018 03:53	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLB026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A34B	11/29/2018 20:38	Jeremy C Giffin	1192.83
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/16/2018 08:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310026A	11/29/2018 19:25	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310026A	11/28/2018 02:00	Sherry L Morrow	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 07:04	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002B	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-2-S-33-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907406  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/16/2018 09:05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.012	0.0006	0.85
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.85
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	0.85
11995	Ethylbenzene	100-41-4	0.005	0.0005	0.85
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.85
11995	Toluene	108-88-3	0.005	0.0007	0.85
11995	Xylene (Total)	1330-20-7	0.005	0.001	0.85
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.008	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.015	0.014	1
10726	Naphthalene	91-20-3	N.D.	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	6.1	0.4	28.38
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.28	0.573	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	28.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183333AA	11/30/2018 01:47	Patrick T Herres	0.85
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/16/2018 09:05	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/16/2018 09:05	Client Supplied	1

**Sample Description:** SRI4B-2-S-33-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907406  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/16/2018 09:05

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/16/2018 09:05	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	11/30/2018 22:12	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A34B	11/29/2018 19:28	Jeremy C Giffin	28.38
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/16/2018 09:05	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310026A	11/29/2018 19:45	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310026A	11/28/2018 02:00	Sherry L Morrow	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 07:07	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820002B	11/27/2018 23:26	Scott W Freisher	1

**Sample Description:** SRI4B-2-S-44.5-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907407  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/16/2018 10:15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.0007	0.0006	0.86
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.86
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	0.86
11995	Ethylbenzene	100-41-4	0.002	0.0005	0.86
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.86
11995	Toluene	108-88-3	0.003	0.0007	0.86
11995	Xylene (Total)	1330-20-7	0.013	0.001	0.86
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.006	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	0.11	0.009	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	3.7	0.4	28.3
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	9.21	0.774	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	28.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

## Sample Comments

State of Washington Lab Certification No. C457

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 17:52	Stephen C Nolte	0.86
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/16/2018 10:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/16/2018 10:15	Client Supplied	1



**Sample Description:** SRI4B-2-S-44.5-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907407  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/16/2018 10:15

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/16/2018 10:15	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	11/30/2018 22:36	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16A	11/29/2018 20:32	Jeremy C Giffin	28.3
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/16/2018 10:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310026A	11/29/2018 22:44	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310026A	11/28/2018 02:00	Sherry L Morrow	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 07:16	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-3-S-9-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907408  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/16/2018 13:40

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.97
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.97
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.97
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.97
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.97
11995	Toluene	108-88-3	N.D.	0.0006	0.97
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.97
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.2	25.63
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	10	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.16	0.516	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	3.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 15:36	Stephen C Nolte	0.97
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/16/2018 13:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/16/2018 13:40	Client Supplied	1

**Sample Description:** SRI4B-3-S-9-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907408  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/16/2018 13:40

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/16/2018 13:40	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	11/30/2018 23:01	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16A	11/29/2018 21:10	Jeremy C Giffin	25.63
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/16/2018 13:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310026A	11/29/2018 23:04	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310026A	11/28/2018 02:00	Sherry L Morrow	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 07:18	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-3-S-14.5-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907409  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/16/2018 14:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.92
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.92
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.92
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.92
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.92
11995	Toluene	108-88-3	N.D.	0.0006	0.92
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.92
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
10726	Naphthalene	91-20-3	0.098	0.008	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.3	28.52
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.07	0.566	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	11.6	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 15:58	Stephen C Nolte	0.92
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/16/2018 14:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/16/2018 14:00	Client Supplied	1

**Sample Description:** SRI4B-3-S-14.5-181116 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907409  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/16/2018 14:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/16/2018 14:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	11/30/2018 23:25	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A16A	11/29/2018 21:48	Jeremy C Giffin	28.52
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/16/2018 14:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183320039A	11/30/2018 10:41	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183320039A	11/28/2018 19:56	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 07:21	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-4-S-14-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907410  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/14/2018 09:10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.99
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.99
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.99
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.99
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
11995	Toluene	108-88-3	0.0009	0.0006	0.99
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.99
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.3	0.2	25.25
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	10	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.98	0.545	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	2.6	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 11:26	Stephen C Nolte	0.99
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/14/2018 09:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/14/2018 09:10	Client Supplied	1

**Sample Description:** SRI4B-4-S-14-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907410  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/14/2018 09:10

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/14/2018 09:10	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	11/30/2018 23:49	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/27/2018 00:05	Jeremy C Giffin	25.25
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/14/2018 09:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310008A	11/29/2018 05:10	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310008A	11/27/2018 18:45	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 07:24	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-4-S-9-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907411  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/14/2018 08:50

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.98
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.98
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.98
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.98
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.98
11995	Toluene	108-88-3	0.0006	0.0006	0.98
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.98
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.2	24.9
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	10	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.26	0.487	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	2.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 11:49	Stephen C Nolte	0.98
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/14/2018 08:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/14/2018 08:50	Client Supplied	1



**Sample Description:** SRI4B-4-S-9-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907411  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/14/2018 08:50

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/14/2018 08:50	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/01/2018 00:13	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/27/2018 00:40	Jeremy C Giffin	24.9
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/14/2018 08:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310008A	11/29/2018 05:30	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310008A	11/27/2018 18:45	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 07:27	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-4-S-16-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907412  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/14/2018 09:45

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.072	108.26
11995	1,2-Dibromoethane	106-93-4	N.D.	0.058	108.26
11995	1,2-Dichloroethane	107-06-2	N.D.	0.086	108.26
11995	Ethylbenzene	100-41-4	1.4	0.058	108.26
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.072	108.26
11995	Toluene	108-88-3	0.24	0.086	108.26
11995	Xylene (Total)	1330-20-7	4.8	0.14	108.26
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.30	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.68	0.013	1
10726	Naphthalene	91-20-3	0.69	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	750	32	2626.19
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	71	5.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	10.1	0.782	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	24.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Q183311AA	11/27/2018 21:06	Stephen C Nolte	108.26
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/14/2018 09:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/14/2018 09:45	Client Supplied	1

**Sample Description:** SRI4B-4-S-16-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907412  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/14/2018 09:45

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/14/2018 09:45	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/01/2018 00:38	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/27/2018 05:55	Jeremy C Giffin	2626.19
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/14/2018 09:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310008A	11/29/2018 05:50	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310008A	11/27/2018 18:45	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 07:30	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-4-S-25-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907413  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/14/2018 10:50

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.009	0.0007	0.94
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.94
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0008	0.94
11995	Ethylbenzene	100-41-4	0.057	0.0005	0.94
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0007	0.94
11995	Toluene	108-88-3	0.005	0.0008	0.94
11995	Xylene (Total)	1330-20-7	0.007	0.001	0.94
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.017	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.060	0.014	1
10726	Naphthalene	91-20-3	0.047	0.009	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	59	1.5	116.71
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	10.9	0.647	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	28.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

## Sample Comments

State of Washington Lab Certification No. C457

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183321AA	11/28/2018 16:37	Linda C Pape	0.94
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/14/2018 10:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/14/2018 10:50	Client Supplied	1

**Sample Description:** SRI4B-4-S-25-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907413  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/14/2018 10:50

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/14/2018 10:50	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/01/2018 01:02	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34B	11/27/2018 21:18	Jeremy C Giffin	116.71
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/14/2018 10:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310008A	11/29/2018 06:09	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310008A	11/27/2018 18:45	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404901	12/02/2018 07:33	Lisa J Cooke	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404901	11/27/2018 08:45	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-4-S-30.5-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907414  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submission Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/14/2018 11:45

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.42	608.7
11995	1,2-Dibromoethane	106-93-4	N.D.	0.33	608.7
11995	1,2-Dichloroethane	107-06-2	N.D.	0.50	608.7
11995	Ethylbenzene	100-41-4	42	0.33	608.7
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.42	608.7
11995	Toluene	108-88-3	N.D.	0.50	608.7
11995	Xylene (Total)	1330-20-7	190	0.84	608.7
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	3.9	0.005	1
10726	2-Methylnaphthalene	91-57-6	10	0.069	5
10726	Naphthalene	91-20-3	16	0.046	5
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	13,000	140	11401.83
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	310	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.80	0.824	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	27.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183312AA	11/28/2018 06:20	Patrick T Herres	608.7
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/14/2018 11:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/14/2018 11:45	Client Supplied	1

**Sample Description:** SRI4B-4-S-30.5-181114 Grab Soil  
**Facility# 96590**  
**232 East Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #: SW 9907414**  
**ELLE Group #: 2011047**  
**Matrix: Soil**

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/14/2018 11:45

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/14/2018 11:45	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/01/2018 01:26	Brandon K Cordova	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/02/2018 11:10	Edward C Monborne	5
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Osvaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/27/2018 06:30	Jeremy C Giffin	11401.83
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/14/2018 11:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310008A	11/29/2018 07:09	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310008A	11/27/2018 18:45	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404903	12/03/2018 10:52	Eric L Eby	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404903	11/27/2018 08:25	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-4-S-44.5-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907415  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/14/2018 13:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.018	0.0007	0.95
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.95
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0008	0.95
11995	Ethylbenzene	100-41-4	0.085	0.0005	0.95
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0007	0.95
11995	Toluene	108-88-3	0.018	0.0008	0.95
11995	Xylene (Total)	1330-20-7	0.11	0.001	0.95
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.026	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.052	0.014	1
10726	Naphthalene	91-20-3	0.20	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	7.6	0.4	27.77
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.07	0.827	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	28.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183321AA	11/28/2018 17:00	Linda C Pape	0.95
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/14/2018 13:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/14/2018 13:30	Client Supplied	1



**Sample Description:** SRI4B-4-S-44.5-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907415  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/14/2018 13:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/14/2018 13:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/01/2018 01:51	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34B	11/27/2018 20:43	Jeremy C Giffin	27.77
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/14/2018 13:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310008A	11/29/2018 07:29	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310008A	11/27/2018 18:45	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404903	12/03/2018 10:56	Eric L Eby	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404903	11/27/2018 08:25	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-1-S-9-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907416  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/14/2018 16:10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.99
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.99
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.99
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.99
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
11995	Toluene	108-88-3	0.001	0.0006	0.99
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.99
<b>GC/MS Semivolatiles</b>					
		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.004	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>					
		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.2	25.53
<b>GC Petroleum Hydrocarbons</b>					
		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>Metals</b>					
		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	1.40	0.550	1
<b>Wet Chemistry</b>					
		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	6.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 12:11	Stephen C Nolte	0.99
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/14/2018 16:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/14/2018 16:10	Client Supplied	1

**Sample Description:** SRI4B-1-S-9-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907416  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/14/2018 16:10

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/14/2018 16:10	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/01/2018 02:15	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/27/2018 09:25	Jeremy C Giffin	25.53
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/14/2018 16:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310008A	11/29/2018 08:29	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310008A	11/27/2018 18:45	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404903	12/03/2018 11:05	Eric L Eby	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404903	11/27/2018 08:25	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-1-S-14.5-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907417  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/14/2018 16:30

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0005	0.92
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.92
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0006	0.92
11995	Ethylbenzene	100-41-4	N.D.	0.0004	0.92
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.92
11995	Toluene	108-88-3	0.001	0.0006	0.92
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.92
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	N.D.	0.003	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
10726	Naphthalene	91-20-3	N.D.	0.007	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	0.3	0.2	24.98
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	10	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	1.28	0.508	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	4.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 12:34	Stephen C Nolte	0.92
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/14/2018 16:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/14/2018 16:30	Client Supplied	1

**Sample Description:** SRI4B-1-S-14.5-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907417  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/14/2018 16:30

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/14/2018 16:30	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/01/2018 03:29	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34A	11/27/2018 01:15	Jeremy C Giffin	24.98
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/14/2018 16:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310008A	11/29/2018 08:48	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310008A	11/27/2018 18:45	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404903	12/03/2018 11:08	Eric L Eby	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404903	11/27/2018 08:25	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-1-S-19.5-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907418  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/14/2018 17:10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	0.001	0.0004	0.82
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0004	0.82
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0005	0.82
11995	Ethylbenzene	100-41-4	0.040	0.0004	0.82
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0004	0.82
11995	Toluene	108-88-3	0.003	0.0005	0.82
11995	Xylene (Total)	1330-20-7	0.25	0.0009	0.82

<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.045	0.004	1
10726	2-Methylnaphthalene	91-57-6	0.092	0.011	1
10726	Naphthalene	91-20-3	0.072	0.007	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:  
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	34	0.9	89.11

<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	13	4.3	1
08272	Heavy Range Organics C24-C40	n.a.	14	11	1

<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	1.85	0.511	1

<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	8.3	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183321AA	11/28/2018 18:08	Linda C Pape	0.82
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/14/2018 17:10	Client Supplied	1

**Sample Description:** SRI4B-1-S-19.5-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907418  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submission Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/14/2018 17:10

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/14/2018 17:10	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/14/2018 17:10	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/01/2018 03:53	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Osvaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34B	11/27/2018 21:53	Jeremy C Giffin	89.11
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/14/2018 17:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310008A	11/29/2018 09:28	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310008A	11/27/2018 18:45	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404903	12/03/2018 11:11	Eric L Eby	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404903	11/27/2018 08:25	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-1-S-32.5-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907419  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/15/2018 10:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.038	54.89
11995	1,2-Dibromoethane	106-93-4	N.D.	0.030	54.89
11995	1,2-Dichloroethane	107-06-2	N.D.	0.046	54.89
11995	Ethylbenzene	100-41-4	N.D.	0.030	54.89
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.038	54.89
11995	Toluene	108-88-3	N.D.	0.046	54.89
11995	Xylene (Total)	1330-20-7	N.D.	0.076	54.89
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.048	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.12	0.014	1
10726	Naphthalene	91-20-3	N.D.	0.009	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	810	28	2211.76
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	29	5.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.67	0.716	1
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	27.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183312AA	11/28/2018 06:45	Patrick T Herres	54.89
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/15/2018 10:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/15/2018 10:00	Client Supplied	1



**Sample Description:** SRI4B-1-S-32.5-181115 Grab Soil  
**Facility# 96590**  
**232 East Woodin Ave - Chelan, WA**

**Chevron**  
**ELLE Sample #: SW 9907419**  
**ELLE Group #: 2011047**  
**Matrix: Soil**

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25

**Collection Date/Time:** 11/15/2018 10:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/15/2018 10:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/01/2018 04:17	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A34A	11/28/2018 21:09	Jeremy C Giffin	2211.76
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/15/2018 10:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183320039A	11/30/2018 11:40	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183320039A	11/28/2018 19:56	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404903	12/03/2018 11:14	Eric L Eby	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404903	11/27/2018 08:25	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** SRI4B-1-S-33.5-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907420  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/15/2018 11:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260C</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.0006	0.86
11995	1,2-Dibromoethane	106-93-4	N.D.	0.0005	0.86
11995	1,2-Dichloroethane	107-06-2	N.D.	0.0007	0.86
11995	Ethylbenzene	100-41-4	N.D.	0.0005	0.86
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.86
11995	Toluene	108-88-3	N.D.	0.0007	0.86
11995	Xylene (Total)	1330-20-7	N.D.	0.001	0.86
<b>GC/MS Semivolatiles</b>			<b>SW-846 8270D</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.005	0.005	1
10726	2-Methylnaphthalene	91-57-6	N.D.	0.014	1
10726	Naphthalene	91-20-3	N.D.	0.009	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	4.4	0.4	29.44
<b>GC Petroleum Hydrocarbons</b>			<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>Metals</b>			<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.03	0.707	1
<b>Wet Chemistry</b>			<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	
00111	Moisture	n.a.	26.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	A183311AA	11/27/2018 18:14	Stephen C Nolte	0.86
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/15/2018 11:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/15/2018 11:00	Client Supplied	1

**Sample Description:** SRI4B-1-S-33.5-181115 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907420  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/15/2018 11:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/15/2018 11:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/01/2018 04:41	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18331A34B	11/29/2018 18:53	Jeremy C Giffin	29.44
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/15/2018 11:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183320039A	11/30/2018 12:00	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183320039A	11/28/2018 19:56	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404903	12/03/2018 11:18	Eric L Eby	1
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404903	11/27/2018 08:25	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** DUP-3-SD-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: SW 9907421  
ELLE Group #: 2011047  
Matrix: Soil

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/14/2018 11:00

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>mg/kg</b>	<b>mg/kg</b>	
11995	Benzene	71-43-2	N.D.	0.041	56.61
11995	1,2-Dibromoethane	106-93-4	N.D.	0.032	56.61
11995	1,2-Dichloroethane	107-06-2	N.D.	0.049	56.61
11995	Ethylbenzene	100-41-4	0.053	0.032	56.61
11995	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.041	56.61
11995	Toluene	108-88-3	N.D.	0.049	56.61
11995	Xylene (Total)	1330-20-7	N.D.	0.081	56.61
Reporting limits were raised due to interference from the sample matrix.					
<b>GC/MS Semivolatiles</b>		<b>SW-846 8270D</b>	<b>mg/kg</b>	<b>mg/kg</b>	
10726	1-Methylnaphthalene	90-12-0	0.031	0.005	1
10726	2-Methylnaphthalene	91-57-6	0.13	0.014	1
10726	Naphthalene	91-20-3	0.10	0.01	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>mg/kg</b>	<b>mg/kg</b>	
02005	NWTPH-GX Soil C7-C12	n.a.	140	3.1	234.55
<b>GC Petroleum Hydrocarbons</b>		<b>ECY 97-602 NWTPH-Dx modified</b>	<b>mg/kg</b>	<b>mg/kg</b>	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	5.7	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>Metals</b>		<b>SW-846 6010D Rev.4, July 2014</b>	<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	14.8	2.88	5
<b>Wet Chemistry</b>		<b>SM 2540 G-2011 %Moisture Calc</b>	<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	30.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	R183312AA	11/28/2018 07:09	Patrick T Herres	56.61
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201832551977	11/14/2018 11:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201832551977	11/14/2018 11:00	Client Supplied	1

**Sample Description:** DUP-3-SD-181114 Grab Soil  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
**ELLE Sample #:** SW 9907421  
**ELLE Group #:** 2011047  
**Matrix:** Soil

**Project Name:** 96590

**Submittal Date/Time:** 11/20/2018 09:25  
**Collection Date/Time:** 11/14/2018 11:00

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201832551977	11/14/2018 11:00	Client Supplied	1
10726	Naph, 1-MN, 2-MN	SW-846 8270D	1	18330SLC026	12/01/2018 05:05	Brandon K Cordova	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	18330SLC026	11/26/2018 17:00	Oswaldo R Sanchez	1
02005	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	18330A34B	11/27/2018 22:28	Jeremy C Giffin	234.55
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201832551977	11/14/2018 11:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	183310008A	11/29/2018 09:08	Thomas C Wildermuth	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	183310008A	11/27/2018 18:45	Sally L Appleyard	1
06955	Lead	SW-846 6010D Rev.4, July 2014	1	183301404903	12/09/2018 09:58	Eric L Eby	5
14049	ICP/ICPMS-SW, 3050B - U5	SW-846 3050B	1	183301404903	11/27/2018 08:25	Denise L Trimby	1
00111	Moisture	SM 2540 G-2011 %Moisture Calc	1	18331820003A	11/28/2018 01:16	Scott W Freisher	1

**Sample Description:** QA-12-T-181117 NA Water  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: WW 9907422  
ELLE Group #: 2011047  
Matrix: Water

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/17/2018 12:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Z183332AA	11/29/2018 19:42	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183332AA	11/29/2018 19:41	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18331A20A	11/29/2018 19:43	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18331A20A	11/29/2018 19:42	Linda C Pape	1

**Sample Description:** QA-13-T-181117 NA Water  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: WW 9907423  
ELLE Group #: 2011047  
Matrix: Water

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/17/2018 12:15

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Z183332AA	11/29/2018 20:06	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183332AA	11/29/2018 20:05	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18331A20A	11/29/2018 20:11	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18331A20A	11/29/2018 20:10	Linda C Pape	1

**Sample Description:** QA-14-T-181117 NA Water  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: WW 9907424  
ELLE Group #: 2011047  
Matrix: Water

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/17/2018 12:30

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Z183332AA	11/29/2018 20:31	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183332AA	11/29/2018 20:30	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18331A20A	11/29/2018 20:39	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18331A20A	11/29/2018 20:38	Linda C Pape	1



**Sample Description:** QA-15-T-181117 NA Water  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: WW 9907425  
ELLE Group #: 2011047  
Matrix: Water

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/17/2018 12:45

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Z183332AA	11/29/2018 20:55	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183332AA	11/29/2018 20:54	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18331A20A	11/29/2018 21:06	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18331A20A	11/29/2018 21:05	Linda C Pape	1

**Sample Description:** QA-16-T-181117 NA Water  
Facility# 96590  
232 East Woodin Ave - Chelan, WA

**Chevron**  
ELLE Sample #: WW 9907426  
ELLE Group #: 2011047  
Matrix: Water

**Project Name:** 96590

Submittal Date/Time: 11/20/2018 09:25  
Collection Date/Time: 11/17/2018 13:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>		<b>SW-846 8260C</b>	<b>ug/l</b>	<b>ug/l</b>	
13130	Benzene	71-43-2	N.D.	0.2	1
13130	1,2-Dibromoethane	106-93-4	N.D.	0.2	1
13130	1,2-Dichloroethane	107-06-2	N.D.	0.3	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
13130	Toluene	108-88-3	N.D.	0.2	1
13130	Xylene (Total)	1330-20-7	N.D.	1	1
<b>GC Volatiles</b>		<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	19	1

### Sample Comments

State of Washington Lab Certification No. C457

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE/EDB/EDC 8260C	SW-846 8260C	1	Z183332AA	11/29/2018 21:20	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	Z183332AA	11/29/2018 21:19	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	18331A20A	11/29/2018 21:34	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030C	1	18331A20A	11/29/2018 21:33	Linda C Pape	1

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result mg/kg	MDL mg/kg
Batch number: A183311AA	Sample number(s): 9907388,9907390-9907392,9907397-9907402,9907404,9907407-9907411,9907416-9907417,9907420	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
Batch number: A183321AA	Sample number(s): 9907413,9907415,9907418	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
Batch number: A183333AA	Sample number(s): 9907394-9907395,9907406	
Benzene	N.D.	0.0005
1,2-Dibromoethane	N.D.	0.0004
1,2-Dichloroethane	N.D.	0.0006
Ethylbenzene	N.D.	0.0004
Methyl Tertiary Butyl Ether	N.D.	0.0005
Toluene	N.D.	0.0006
Xylene (Total)	N.D.	0.001
Batch number: Q183311AA	Sample number(s): 9907412	
Benzene	N.D.	0.025
1,2-Dibromoethane	N.D.	0.020
1,2-Dichloroethane	N.D.	0.030
Ethylbenzene	N.D.	0.020
Methyl Tertiary Butyl Ether	N.D.	0.025
Toluene	N.D.	0.030
Xylene (Total)	N.D.	0.050
Batch number: Q183331AA	Sample number(s): 9907394-9907395,9907403,9907405	
Benzene	N.D.	0.025
1,2-Dibromoethane	N.D.	0.020
1,2-Dichloroethane	N.D.	0.030

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Method Blank (continued)

Analysis Name	Result	MDL
	mg/kg	mg/kg
Ethylbenzene	N.D.	0.020
Methyl Tertiary Butyl Ether	N.D.	0.025
Toluene	N.D.	0.030
Xylene (Total)	N.D.	0.050
Batch number: Q183332AA	Sample number(s): 9907389,9907393,9907396	
Benzene	N.D.	0.025
1,2-Dibromoethane	N.D.	0.020
1,2-Dichloroethane	N.D.	0.030
Ethylbenzene	N.D.	0.020
Methyl Tertiary Butyl Ether	N.D.	0.025
Toluene	N.D.	0.030
Xylene (Total)	N.D.	0.050
Batch number: Q183341AA	Sample number(s): 9907387,9907396	
Benzene	N.D.	0.025
1,2-Dibromoethane	N.D.	0.020
1,2-Dichloroethane	N.D.	0.030
Ethylbenzene	N.D.	0.020
Methyl Tertiary Butyl Ether	N.D.	0.025
Toluene	N.D.	0.030
Xylene (Total)	N.D.	0.050
Batch number: R183312AA	Sample number(s): 9907414,9907419,9907421	
Benzene	N.D.	0.025
1,2-Dibromoethane	N.D.	0.020
1,2-Dichloroethane	N.D.	0.030
Ethylbenzene	N.D.	0.020
Methyl Tertiary Butyl Ether	N.D.	0.025
Toluene	N.D.	0.030
Xylene (Total)	N.D.	0.050
	ug/l	ug/l
Batch number: Z183332AA	Sample number(s): 9907422-9907426	
Benzene	N.D.	0.2
1,2-Dibromoethane	N.D.	0.2
1,2-Dichloroethane	N.D.	0.3
Ethylbenzene	N.D.	0.4
Methyl Tertiary Butyl Ether	N.D.	0.2
Toluene	N.D.	0.2
Xylene (Total)	N.D.	1
	mg/kg	mg/kg
Batch number: 18330SLB026	Sample number(s): 9907387-9907405	
1-Methylnaphthalene	N.D.	0.003
2-Methylnaphthalene	N.D.	0.010
Naphthalene	N.D.	0.007

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Method Blank (continued)

Analysis Name	Result mg/kg	MDL mg/kg
Batch number: 18330SLC026		Sample number(s): 9907406-9907421
1-Methylnaphthalene	N.D.	0.003
2-Methylnaphthalene	N.D.	0.010
Naphthalene	N.D.	0.007
Batch number: 18330A34A NWTPH-GX Soil C7-C12		Sample number(s): 9907400-9907401,9907410-9907412,9907414,9907416-9907417
	N.D.	0.2
Batch number: 18330A34B NWTPH-GX Soil C7-C12		Sample number(s): 9907413,9907415,9907418,9907421
	N.D.	0.2
Batch number: 18331A16A NWTPH-GX Soil C7-C12		Sample number(s): 9907388,9907390-9907391,9907407-9907409
	N.D.	0.2
Batch number: 18331A16B NWTPH-GX Soil C7-C12		Sample number(s): 9907392-9907399
	N.D.	0.2
Batch number: 18331A34A NWTPH-GX Soil C7-C12		Sample number(s): 9907389,9907402,9907419
	N.D.	0.2
Batch number: 18331A34B NWTPH-GX Soil C7-C12		Sample number(s): 9907387,9907403-9907406,9907420
	N.D.	0.2
	<b>ug/l</b>	<b>ug/l</b>
Batch number: 18331A20A NWTPH-Gx water C7-C12		Sample number(s): 9907422-9907426
	N.D.	19
	<b>mg/kg</b>	<b>mg/kg</b>
Batch number: 183250032A		Sample number(s): 9907387-9907388
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183310008A		Sample number(s): 9907410-9907418,9907421
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183310009A		Sample number(s): 9907389-9907398
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183310026A		Sample number(s): 9907399-9907408
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	N.D.	10
Batch number: 183320039A		Sample number(s): 9907409,9907419-9907420
Diesel Range Organics C12-C24	N.D.	4.0
Heavy Range Organics C24-C40	15	10
Batch number: 183251404902		Sample number(s): 9907387-9907394
Lead	N.D.	0.600

\*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Method Blank (continued)

Analysis Name	Result	MDL
	mg/kg	mg/kg
Batch number: 183301404901	Sample number(s): 9907395-9907413	
Lead	N.D.	0.600
Batch number: 183301404903	Sample number(s): 9907414-9907421	
Lead	N.D.	0.600

### LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: A183311AA	Sample number(s): 9907388,9907390-9907392,9907397-9907402,9907404,9907407-9907411,9907416-9907417,9907420								
Benzene	0.0200	0.0204	0.0200	0.0195	102	98	80-120	4	30
1,2-Dibromoethane	0.0200	0.0194	0.0200	0.0197	97	99	76-120	2	30
1,2-Dichloroethane	0.0200	0.0210	0.0200	0.0208	105	104	71-128	1	30
Ethylbenzene	0.0200	0.0195	0.0200	0.0188	97	94	78-120	3	30
Methyl Tertiary Butyl Ether	0.0200	0.0174	0.0200	0.0175	87	87	72-120	1	30
Toluene	0.0200	0.0195	0.0200	0.0189	98	95	80-120	3	30
Xylene (Total)	0.0600	0.0573	0.0600	0.0556	95	93	75-120	3	30
Batch number: A183321AA	Sample number(s): 9907413,9907415,9907418								
Benzene	0.0200	0.0203	0.0200	0.0202	101	101	80-120	0	30
1,2-Dibromoethane	0.0200	0.0189	0.0200	0.0193	95	97	76-120	2	30
1,2-Dichloroethane	0.0200	0.0203	0.0200	0.0204	102	102	71-128	0	30
Ethylbenzene	0.0200	0.0195	0.0200	0.0192	97	96	78-120	2	30
Methyl Tertiary Butyl Ether	0.0200	0.0166	0.0200	0.0173	83	86	72-120	4	30
Toluene	0.0200	0.0193	0.0200	0.0192	96	96	80-120	0	30
Xylene (Total)	0.0600	0.0568	0.0600	0.0560	95	93	75-120	2	30
Batch number: A183333AA	Sample number(s): 9907394-9907395,9907406								
Benzene	0.0200	0.0172	0.0200	0.0195	86	97	80-120	13	30
1,2-Dibromoethane	0.0200	0.0174	0.0200	0.0197	87	99	76-120	12	30
1,2-Dichloroethane	0.0200	0.0186	0.0200	0.0211	93	105	71-128	12	30
Ethylbenzene	0.0200	0.0167	0.0200	0.0191	83	96	78-120	14	30
Methyl Tertiary Butyl Ether	0.0200	0.0150	0.0200	0.0173	75	87	72-120	14	30
Toluene	0.0200	0.0168	0.0200	0.0190	84	95	80-120	12	30
Xylene (Total)	0.0600	0.0496	0.0600	0.0569	83	95	75-120	14	30
Batch number: Q183311AA	Sample number(s): 9907412								
Benzene	1.00	1.12	1.00	1.09	112	109	80-120	3	30
1,2-Dibromoethane	1.00	1.05	1.00	1.02	105	102	76-120	3	30
1,2-Dichloroethane	1.00	1.26	1.00	1.25	126	125	71-128	1	30

\*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylbenzene	1.00	1.06	1.00	1.05	106	105	78-120	1	30
Methyl Tertiary Butyl Ether	1.00	1.12	1.00	1.11	112	111	72-120	1	30
Toluene	1.00	1.07	1.00	1.06	107	106	80-120	0	30
Xylene (Total)	3.00	3.08	3.00	3.01	103	100	75-120	2	30
Batch number: Q183331AA	Sample number(s): 9907394-9907395,9907403,9907405								
Benzene	1.00	1.05	1.00	1.12	105	112	80-120	7	30
1,2-Dibromoethane	1.00	1.05	1.00	1.16	105	116	76-120	9	30
1,2-Dichloroethane	1.00	1.10	1.00	1.17	110	117	71-128	6	30
Ethylbenzene	1.00	1.05	1.00	1.14	105	114	78-120	8	30
Methyl Tertiary Butyl Ether	1.00	0.984	1.00	1.06	98	106	72-120	8	30
Toluene	1.00	1.06	1.00	1.18	106	118	80-120	11	30
Xylene (Total)	3.00	3.06	3.00	3.35	102	112	75-120	9	30
Batch number: Q183332AA	Sample number(s): 9907389,9907393,9907396								
Benzene	1.00	1.01	1.00	1.03	101	103	80-120	2	30
1,2-Dibromoethane	1.00	1.03	1.00	1.05	103	105	76-120	2	30
1,2-Dichloroethane	1.00	1.07	1.00	1.10	107	110	71-128	2	30
Ethylbenzene	1.00	1.00	1.00	1.03	100	103	78-120	3	30
Methyl Tertiary Butyl Ether	1.00	0.985	1.00	0.997	99	100	72-120	1	30
Toluene	1.00	1.04	1.00	1.06	104	106	80-120	1	30
Xylene (Total)	3.00	2.95	3.00	3.01	98	100	75-120	2	30
Batch number: Q183341AA	Sample number(s): 9907387,9907396								
Benzene	1.00	1.01	1.00	1.00	101	100	80-120	0	30
1,2-Dibromoethane	1.00	1.04	1.00	1.03	104	103	76-120	0	30
1,2-Dichloroethane	1.00	1.11	1.00	1.10	111	110	71-128	0	30
Ethylbenzene	1.00	1.00	1.00	1.01	100	101	78-120	0	30
Methyl Tertiary Butyl Ether	1.00	0.998	1.00	1.01	100	101	72-120	1	30
Toluene	1.00	1.03	1.00	1.04	103	104	80-120	0	30
Xylene (Total)	3.00	2.92	3.00	2.93	97	98	75-120	0	30
Batch number: R183312AA	Sample number(s): 9907414,9907419,9907421								
Benzene	1.00	1.18	1.00	1.16	118	116	80-120	2	30
1,2-Dibromoethane	1.00	1.11	1.00	1.09	111	109	76-120	2	30
1,2-Dichloroethane	1.00	1.18	1.00	1.17	118	117	71-128	1	30
Ethylbenzene	1.00	1.06	1.00	1.08	106	108	78-120	2	30
Methyl Tertiary Butyl Ether	1.00	1.09	1.00	1.10	109	110	72-120	1	30
Toluene	1.00	1.14	1.00	1.09	114	109	80-120	4	30
Xylene (Total)	3.00	3.34	3.00	3.34	111	111	75-120	0	30
	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>					
Batch number: Z183332AA	Sample number(s): 9907422-9907426								
Benzene	20	23.64			118		80-120		
1,2-Dibromoethane	20	23.48			117		77-120		

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	20	21.87			109		73-124		
Ethylbenzene	20	23			115		80-120		
Methyl Tertiary Butyl Ether	20	23.08			115		69-122		
Toluene	20	22.84			114		80-120		
Xylene (Total)	60	66.88			111		80-120		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 18330SLB026	Sample number(s): 9907387-9907405								
1-Methylnaphthalene	1.67	1.49			89		81-117		
2-Methylnaphthalene	1.67	1.47			88		80-111		
Naphthalene	1.67	1.45			87		81-111		
Batch number: 18330SLC026	Sample number(s): 9907406-9907421								
1-Methylnaphthalene	1.67	1.52			91		81-117		
2-Methylnaphthalene	1.67	1.53			92		80-111		
Naphthalene	1.67	1.53			92		81-111		
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 18330A34A	Sample number(s): 9907400-9907401,9907410-9907412,9907414,9907416-9907417								
NWTPH-GX Soil C7-C12	11	10.9	11	11.26	99	102	55-145	3	30
Batch number: 18330A34B	Sample number(s): 9907413,9907415,9907418,9907421								
NWTPH-GX Soil C7-C12	11	10.9	11	11.26	99	102	55-145	3	30
Batch number: 18331A16A	Sample number(s): 9907388,9907390-9907391,9907407-9907409								
NWTPH-GX Soil C7-C12	11	10.01	11	10.12	91	92	55-145	1	30
Batch number: 18331A16B	Sample number(s): 9907392-9907399								
NWTPH-GX Soil C7-C12	11	10.01	11	10.12	91	92	55-145	1	30
Batch number: 18331A34A	Sample number(s): 9907389,9907402,9907419								
NWTPH-GX Soil C7-C12	11	10.88	11	11.15	99	101	55-145	2	30
Batch number: 18331A34B	Sample number(s): 9907387,9907403-9907406,9907420								
NWTPH-GX Soil C7-C12	11	10.88	11	11.15	99	101	55-145	2	30
	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>					
Batch number: 18331A20A	Sample number(s): 9907422-9907426								
NWTPH-Gx water C7-C12	1100	1099.85	1100	1101.92	100	100	64-131	0	30
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 183250032A	Sample number(s): 9907387-9907388								
Diesel Range Organics C12-C24	133.36	95.68			72		61-115		
Batch number: 183310008A	Sample number(s): 9907410-9907418,9907421								
Diesel Range Organics C12-C24	133.36	102.6			77		61-115		

\*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 183310009A Diesel Range Organics C12-C24	Sample number(s): 9907389-9907398				78		61-115		
	133.36	104.65							
Batch number: 183310026A Diesel Range Organics C12-C24	Sample number(s): 9907399-9907408				80		61-115		
	133.36	106.6							
Batch number: 183320039A Diesel Range Organics C12-C24	Sample number(s): 9907409,9907419-9907420				68		61-115		
	133.36	91							
	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>					
Batch number: 183251404902 Lead	Sample number(s): 9907387-9907394				98		90-115		
	15	14.74							
Batch number: 183301404901 Lead	Sample number(s): 9907395-9907413				97		90-115		
	15	14.58							
Batch number: 183301404903 Lead	Sample number(s): 9907414-9907421				104		90-115		
	15	15.58							
	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>					
Batch number: 18331820002A Moisture	Sample number(s): 9907387-9907396				100		99-101		
	89.5	89.42							
Batch number: 18331820002B Moisture	Sample number(s): 9907397-9907406				100		99-101		
	89.5	89.42							
Batch number: 18331820003A Moisture	Sample number(s): 9907407-9907421				100		99-101		
	89.5	89.36							

### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 18330SLB026	Sample number(s): 9907387-9907405 UNSPK: 9907392									
1-Methylnaphthalene	N.D.	1.66	1.60	1.66	1.58	96	95	81-117	2	30
2-Methylnaphthalene	N.D.	1.66	1.60	1.66	1.57	96	95	80-111	2	30
Naphthalene	N.D.	1.66	1.52	1.66	1.50	92	90	81-111	1	30
Batch number: 18330SLC026	Sample number(s): 9907406-9907421 UNSPK: 9907416									
1-Methylnaphthalene	N.D.	1.67	1.56	1.67	1.55	94	93	81-117	1	30
2-Methylnaphthalene	N.D.	1.67	1.52	1.67	1.51	91	91	80-111	1	30

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Naphthalene	N.D.	1.67	1.57	1.67	1.55	94	93	81-111	1	30
Batch number: 183310008A Diesel Range Organics C12-C24	N.D.	133.36	92.64			69		61-115		
Batch number: 183310009A Diesel Range Organics C12-C24	N.D.	132.66	116.32			88		61-115		
Batch number: 183310026A Diesel Range Organics C12-C24	N.D.	132.04	99.29			75		61-115		
Batch number: 183320039A Diesel Range Organics C12-C24	N.D.	132.48	87.33			66		61-115		
Batch number: 183301404901 Lead	5.35	11.11	15.7	11.11	16.15	93	97	75-125	3	20

### Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 183310008A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	N.D.	N.D.	0 (1)	20
Batch number: 183310009A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	10.85	N.D.	200* (1)	20
Batch number: 183310026A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	N.D.	N.D.	0 (1)	20
Batch number: 183320039A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	N.D.	N.D.	0 (1)	20

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 183301404901 Lead	Sample number(s): 9907395-9907413 BKG: 9907395 5.35	9907413 BKG: 9907395 6.18	14 (1)	20
	%	%		
Batch number: 18331820002A Moisture	Sample number(s): 9907387-9907396 BKG: 9907389 27.63	9907396 BKG: 9907389 27.86	1	5
Batch number: 18331820002B Moisture	Sample number(s): 9907397-9907406 BKG: 9907403 22.2	9907406 BKG: 9907403 22.88	3	5
Batch number: 18331820003A Moisture	Sample number(s): 9907407-9907421 BKG: 9907410 2.56	9907421 BKG: 9907410 2.48	3 (1)	5

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183311AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9907388	98	102	96	94
9907390	97	101	100	96
9907391	96	101	101	95
9907392	103	110	92	90
9907397	93	100	102	100
9907398	95	103	104	93
9907399	97	106	103	95
9907400	96	101	99	97
9907401	103	105	94	95
9907402	102	106	95	90
9907404	96	103	98	97
9907407	96	102	102	94
9907408	106	111	94	91
9907409	105	110	95	90
9907410	104	109	95	91
9907411	106	110	94	92
9907416	106	108	93	91
9907417	105	107	95	91
9907420	95	97	102	100
Blank	103	107	95	92
LCS	100	100	100	101

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183311AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCSD	99	100	100	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183321AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9907413	93	98	139	96
9907415	95	102	114	105
9907418	97	103	98	105
Blank	104	105	94	92
LCS	100	101	100	102
LCSD	99	100	99	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: A183333AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9907394	97	103	101	100
9907395	97	102	103	101
9907406	96	100	104	100
Blank	106	105	96	94
LCS	103	105	101	102
LCSD	100	106	100	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: Q183311AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9907412	49*	52*	51*	87
Blank	95	102	93	96
LCS	101	101	95	100
LCSD	100	98	93	99
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: Q183331AA

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: Q183331AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9907403	44*	48*	52	73
9907405	58	61	68	76
Blank	91	95	97	99
LCS	92	93	95	99
LCSD	100	101	103	108
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: Q183332AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9907389	54	58	59	81
9907393	57	58	61	78
9907396	64	66	83	120
Blank	89	93	92	96
LCS	90	91	91	95
LCSD	92	94	94	95
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: Q183341AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9907387	65	62	92	105
Blank	91	97	95	95
LCS	91	92	91	94
LCSD	90	92	92	95
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: R183312AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9907414	80	79	74	80
9907419	68	72	79	89
9907421	60	61	53	64
Blank	109	112	100	92
LCS	104	105	100	95
LCSD	105	105	96	96
Limits:	50-141	54-135	52-141	50-131

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE/EDB/EDC 8260C  
Batch number: Z183332AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9907422	109	105	100	94
9907423	109	104	101	96
9907424	109	105	100	94
9907425	109	104	100	94
9907426	110	105	100	95
Blank	108	105	100	95
LCS	104	105	101	100
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18330SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9907387	77	80	83
9907388	86	81	88
9907389	80	79	82
9907390	92	85	86
9907391	74	71	79
9907393	86	85	86
9907394	84	81	84
9907395	89	86	86
9907396	83	82	80
9907397	90	84	85
9907398	77	80	88
9907399	80	87	85
9907400	79	78	80
9907401	86	86	91
9907402	85	84	86
9907403	83	84	86
9907404	83	81	89
9907405	93	85	88
Limits:	49-118	57-116	55-118

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9907392	82	88	87	87	89	93
Blank	81	88	89	87	89	91
LCS	87	94	90	88	89	94
MS	89	95	91	91	93	96
MSD	88	93	89	90	93	96

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18330SLB026

Limits: 47-120 51-123 19-137 49-118 57-116 55-118

Analysis Name: Naph, 1-MN, 2-MN  
Batch number: 18330SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9907406	80	80	82
9907407	75	79	80
9907408	78	81	86
9907409	84	86	85
9907410	81	83	84
9907411	80	84	88
9907412	87	86	83
9907413	80	82	82
9907414	97	74	73
9907415	78	81	81
9907416	81	86	88
9907417	78	80	84
9907418	32*	83	79
9907419	84	84	84
9907420	73	80	83
9907421	81	80	83
Blank	82	87	86
LCS	84	84	86
MS	85	89	88
MSD	84	84	88
Limits:	49-118	57-116	55-118

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18330A34A

	Trifluorotoluene-F
9907400	71
9907401	83
9907410	99
9907411	88
9907412	134
9907414	4123*
9907416	80
9907417	98
Blank	90
LCS	111
LCSD	108

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18330A34A

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18330A34B

Trifluorotoluene-F

9907413	65
9907415	65
9907418	103
9907421	73
Blank	95
LCS	111
LCSD	108

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18331A16A

Trifluorotoluene-F

9907388	62
9907390	69
9907391	63
9907407	64
9907408	84
9907409	59
Blank	97
LCS	98
LCSD	98

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12  
Batch number: 18331A16B

Trifluorotoluene-F

9907392	78
9907393	174*
9907394	58
9907395	67
9907396	103
9907397	63
9907398	64
9907399	64
Blank	96

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-GX Soil C7-C12

Batch number: 18331A16B

Trifluorotoluene-F

LCS	98
LCSD	98

Limits: 50-150

Analysis Name: NWTPH-Gx water C7-C12

Batch number: 18331A20A

Trifluorotoluene-F

9907422	88
9907423	83
9907424	87
9907425	87
9907426	82
Blank	87
LCS	95
LCSD	95

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12

Batch number: 18331A34A

Trifluorotoluene-F

9907389	388*
9907402	117
9907419	85
Blank	92
LCS	106
LCSD	115

Limits: 50-150

Analysis Name: NWTPH-GX Soil C7-C12

Batch number: 18331A34B

Trifluorotoluene-F

9907387	1818*
9907403	313*
9907404	63
9907405	154*
9907406	56
9907420	58
Blank	105
LCS	106

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-GX Soil C7-C12

Batch number: 18331A34B

Trifluorotoluene-F

LCSD	115
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Limits: 50-150

Analysis Name: NWTPH-Dx soil

Batch number: 183250032A

Orthoterphenyl

9907387	97
9907388	84
Blank	93
LCS	99

Limits: 50-150

Analysis Name: NWTPH-Dx soil

Batch number: 183310008A

Orthoterphenyl

9907410	106
9907411	101
9907412	92
9907413	96
9907414	98
9907415	96
9907416	105
9907417	101
9907418	107
9907421	95
Blank	107
DUP	90
LCS	100
MS	95

Limits: 50-150

Analysis Name: NWTPH-Dx soil

Batch number: 183310009A

Orthoterphenyl

9907389	100
9907390	107
9907391	99
9907392	106
9907393	98

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Dx soil  
Batch number: 183310009A

	Orthoterphenyl
9907394	91
9907395	105
9907396	96
9907397	103
9907398	100
Blank	103
DUP	97
LCS	102
MS	100

Limits: 50-150

Analysis Name: NWTPH-Dx soil  
Batch number: 183310026A

	Orthoterphenyl
9907399	91
9907400	91
9907401	103
9907402	98
9907403	98
9907404	98
9907405	95
9907406	94
9907407	94
9907408	98
Blank	95
DUP	90
LCS	99
MS	97

Limits: 50-150

Analysis Name: NWTPH-Dx soil  
Batch number: 183320039A

	Orthoterphenyl
9907409	87
9907419	77
9907420	84
Blank	86
DUP	84
LCS	93
MS	90

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 12/09/2018 11:55

Group Number: 2011047

### Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Dx soil  
Batch number: 183320039A

Limits: 50-150

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories**

Acct. # 11255

For Lancaster Laboratories use only  
 Group # 2011047 Sample # 9907387-426  
Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested *										6 Remarks												
Facility # <u>90590</u> WBS Site Address <u>232 E. Woodin Ave, Chevron, WA</u> Chevron PM <u>Eric Hetrick</u> Lead Consultant Consultant/Office <u>Leidos/Bothell, WA</u> Consultant Project Mgr. <u>Russ Shropshire</u> Consultant Phone # <u>425-482-3325</u> Sampler <u>R. Otteman and Tom Dube</u>			<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Oil <input type="checkbox"/> Air			Total Number of Containers <input type="checkbox"/> BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth 8260 full scan Oxygenates NWTPH GX NWTPH DX <input checked="" type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Lead Total <input checked="" type="checkbox"/> Method <u>6010</u> WAVPH <input type="checkbox"/> WAEPH <input type="checkbox"/> <u>EOB/EOC 8260</u> <u>MAISDC</u> <del>45 PAHs</del> <u>Naphthalenes 8270</u> <u>Carc. PAHs (8270)</u>										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits												
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	8260 full scan	Oxygenates	NWTPH GX	NWTPH DX <input checked="" type="checkbox"/>	Silica Gel Cleanup <input type="checkbox"/>	Lead Total <input checked="" type="checkbox"/>	Method <u>6010</u>	WAVPH <input type="checkbox"/>	WAEPH <input type="checkbox"/>	<u>EOB/EOC 8260</u>	<u>MAISDC</u>	<del>45 PAHs</del> <u>Naphthalenes 8270</u>	<u>Carc. PAHs (8270)</u>	6 Remarks				
Date	Time																											
<u>SRI 4B-3-22.5-11618</u>	<u>11/16/18</u>	<u>1515</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	* includes 1-methyl and 2-methyl naphthalene			
<u>SRI 4B-3-26-11618</u>	<u>11/16/18</u>	<u>1605</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<u>SRI 4B-3-31-11618</u>	<u>11/16/18</u>	<u>1630</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<u>SRI 4B-3-34-11618</u>	<u>11/16/18</u>	<u>1650</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<u>SRI 4B-3-39.5-11618</u>	<u>11/16/18</u>	<u>1710</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<u>SRI 4B-7-14.5-11718</u>	<u>11/17/18</u>	<u>0930</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<u>SRI 4B-7-20-11718</u>	<u>11/17/18</u>	<u>1030</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<u>SRI 4B-7-23-11718</u>	<u>11/17/18</u>	<u>1050</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<u>DUP-4-11718</u>	<u>11/17/18</u>	<u>1900</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<u>SRI 4B-7-30-11718</u>	<u>11/17/18</u>	<u>1145</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<u>SRI 4B-7-37-11718</u>	<u>11/17/18</u>	<u>1320</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<u>SRI 4B-7-44.5-11718</u>	<u>11/17/18</u>	<u>1330</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<u>DUP-5-11718</u>	<u>11/17/18</u>	<u>1340</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
7 Turnaround Time Requested (TAT) (please circle) <input checked="" type="checkbox"/> Standard 5 day    4 day 72 hour    48 hour    24 hour			Relinquished by <u>Thomas Dube</u> Date <u>11.19.18</u> Time <u>16:00</u>			Received by _____ Date _____ Time _____			Relinquished by _____ Date _____ Time _____			Received by _____ Date _____ Time _____			9													
8 Data Package Options (please circle if required) Type I - Full    Type VI (Raw Data)			Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____			Received by <u>MVR</u> Date <u>11/20/18</u> Time <u>0925</u>			Temperature Upon Receipt <u>0.1-1.8°C</u>			Custody Seals Intact? <input checked="" type="checkbox"/> Yes    No																

# Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # 11255

For Eurofins Lancaster Laboratories Environmental use only  
Group # 2011047 Sample # 9907387-426  
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks					
Facility # <u>90590</u> WBS Site Address <u>232 E. Woodin Ave, Cheney, WA</u> Chevron PM <u>Eric Hetrick</u> Lead Consultant Consultant/Office <u>Leidos / Bathell, WA</u> Consultant Project Mgr. <u>Russ Shropshire</u> Consultant Phone # <u>425-482-3323</u> Sampler <u>R. Otteman and T. Dube</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Ground <input type="checkbox"/> Air <input type="checkbox"/> Surface				Total Number of Containers: <u>7</u> <input checked="" type="checkbox"/> BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> NWTPH-Gx <input type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input checked="" type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <u>GC/MS</u>										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits					
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	8260	Naphth	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Total	Diss.	Method	6 Remarks	
Date	Time	Date	Time																				
<del>SRT 4B-1-39.5-111518</del>	<del>11/15/18</del>	<del>1115</del>							<u>7</u>														*includes 1-methyl and 2-methyl naphthalene
<del>SRT 4B-1-15-111518</del>	<del>11/15/18</del>	<del>1430</del>							<u>7</u>														
<del>SRT 4B-2-9-111518</del>	<del>11/15/18</del>	<del>1420</del>							<u>7</u>														
<del>SRT 4B-2-15-111518</del>	<del>11/15/18</del>	<del>1510</del>							<u>7</u>														
<del>SRT 4B-2-19-111518</del>	<del>11/15/18</del>	<del>1510</del>							<u>7</u>														
<del>SRT 4B-2-23-111518</del>	<del>11/15/18</del>	<del>1620</del>							<u>7</u>														
<del>SRT 4B-2-31.5-111618</del>	<del>11/16/18</del>	<del>0830</del>							<u>7</u>														
<del>SRT 4B-2-33-111618</del>	<del>11/16/18</del>	<del>0905</del>							<u>7</u>														
<del>SRT 4B-2-44.5-111618</del>	<del>11/16/18</del>	<del>1015</del>							<u>7</u>														
<del>SRT 4B-3-9-111618</del>	<del>11/16/18</del>	<del>1340</del>							<u>7</u>														
<del>SRT 4B-3-14.5-111618</del>	<del>11/16/18</del>	<del>1400</del>							<u>7</u>														
7 Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 4 day 72 hour    48 hour    24 hour				Relinquished by <u>Thomas Dube</u> Date <u>11.19.18</u> Time <u>16:00</u>				Received by _____ Date _____ Time _____				Relinquished by _____ Date _____ Time _____				Received by _____ Date _____ Time _____							
8 Data Package (circle if required) Type I - Full Type VI (Raw Data)				EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____				Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____    Other _____				Received by <u>mir</u> Date <u>11/20/18</u> Time <u>0925</u>				Temperature Upon Receipt <u>0.1-1.8 °C</u> Custody Seals Intact? <input checked="" type="checkbox"/> Yes    No							

# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories**

Acct. # 11255

For Lancaster Laboratories use only  
 Group # 2011647 Sample # 9907387-426  
 Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested										6 Remarks								
Facility # <u>90590</u> WBS Site Address <u>232 E. Woodin Ave, Chelan, WA</u> Chevron PM <u>Eric Hetrick</u> Lead Consultant <u>Leidos</u> Consultant/Office <u>Leidos / Portneil, WA</u> Consultant Project Mgr. <u>Russ Shropshire</u> Consultant Phone # <u>425-482-3323</u> Sampler <u>R. Otterman and T. Duke</u>			<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Air			Total Number of Containers <input checked="" type="checkbox"/> BTEX + MTBE/8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates NWTPH GX NWTPH DX <input checked="" type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Lead Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>Gold</u> WAVPH <input type="checkbox"/> WAEPH <input type="checkbox"/> <u>Master</u> <u>EPB/EDC by SLD</u> <u>Arylhydrocarbon Naphthalenes PAHs</u>										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits								
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE/8021	8260 full scan	Oxygenates	NWTPH GX	NWTPH DX	Silica Gel Cleanup	Lead Total	Diss.	Method	WAVPH	WAEPH	Master	EPB/EDC by SLD	Arylhydrocarbon Naphthalenes PAHs	Remarks
Date	Time	Date	Time																					
<del>SRI 4B-4-9-11-11418</del>	<del>11/14/18</del>	<del>0850</del>	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	* includes 1-methyl and 2-methyl naphthalene
<del>SRI 4B-4-14-11418</del>	<del>11/14/18</del>	<del>0910</del>	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
<del>SRI 4B-4-9-11418</del>	<del>11/14/18</del>	<del>0850</del>	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
<del>SRI 4B-4-16-111818</del>	<del>11/14/18</del>	<del>0945</del>	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
SRI 4B-4-16-111418	11/14/18	0945	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
SRI 4B-4-25-111418	11/14/18	1050	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
SRI 4B-4-30.5-111418	11/14/18	1145	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
SRI 4B-4-44.5-111418	11/14/18	1330	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
SRI 4B-1-9-111418	11/14/18	1610	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
SRI 4B-1-14.5-111418	11/14/18	1630	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
SRI 4B-1-19.5-111418	11/14/18	1710	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
SRI 4B-1-32.5-111518	11/15/18	1000	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
SRI 4B-1-33.5-111518	11/15/18	1100	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour			Relinquished by <u>Thomas Duke</u> Date <u>11/19/18</u> Time <u>16:00</u>			Received by _____ Date _____ Time _____			Relinquished by _____ Date _____ Time _____			Received by _____ Date _____ Time _____												
8 Data Package Options (please circle if required) Type I - Full Type VI (Raw Data)			Relinquished by Commerical Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____			Received by <u>mir</u> Date <u>11/20/18</u> Time <u>0925</u>			Temperature Upon Receipt <u>0.1-1.8</u>			Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												

# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories Environmental**

Acct. # 11255

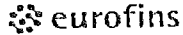
For Eurofins Lancaster Laboratories Environmental use only  
 Group # 2G11047 Sample # 9907387-426

Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested										6 Remarks								
Facility # <u>96590</u> WBS Site Address <u>230 E. Warden Ave, Chehalis, WA</u> Chevron PM <u>Eric Hetrick</u> Lead Consultant Consultant/Office <u>Leidos / Bothell, WA</u> Consultant Project Mgr. <u>Russ Shropshire</u> Consultant Phone # <u>405-482-3323</u> Sampler <u>R. Ottemun and T. Dube</u>			<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air			Total Number of Containers <input checked="" type="checkbox"/> BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> 8260 full scan <input checked="" type="checkbox"/> Naphth <u>including \$2 methyl naph.</u> <input type="checkbox"/> Oxygenates <input type="checkbox"/> NWTPH-GX <input type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WAPPH <del>WAPPH</del> <input checked="" type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <input checked="" type="checkbox"/> TELP PCRA 8 Metals <input checked="" type="checkbox"/> TELP Volatiles & Semivolatiles <input checked="" type="checkbox"/> EDB/EDC by 8260 <input type="checkbox"/> Moisture										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits								
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	8260 full scan	NWTPH-GX	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WAPPH	Total	Diss.	Method	TELP PCRA 8 Metals	TELP Volatiles & Semivolatiles	EDB/EDC by 8260	Moisture	6 Remarks	
Date	Time																							
<del>Purgewater - 1-11718</del>		<del>11/17/18</del>	<del>1430</del>	<del>X</del>	<del>X</del>				7															← 5-day TAT ← standard TAT
IDW-Develop-11718		11/17/18	1430	X	X				7															
DUP-3-111418		11/14/18	1100	X					7															
7 Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> <del>72 hour</del> <del>48 hour</del> <del>24 hour</del> <u>IPW sample only</u> 4 day 24 hour				Relinquished by <u>Thomas Dube</u> Date <u>11.19.18</u> Time <u>16:00</u>		Relinquished by _____ Date _____ Time _____		Received by _____ Date _____ Time _____		Received by _____ Date _____ Time _____		Received by _____ Date _____ Time _____		Received by _____ Date _____ Time _____										
8 Data Package (circle if required) Type I - Full Type VI (Raw Data)		EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____		Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____				Received by <u>Nir</u> Date <u>11/20/18</u> Time <u>0925</u>		Temperature Upon Receipt <u>0.1-1.8°C</u> Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														



# Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # 11255

For Eurofins Lancaster Laboratories Environmental use only

Group # 2011047 Sample # 9907387-426

Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks	
Facility # <u>96590</u> WBS				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Composite				Total Number of Containers <input type="checkbox"/> BTEX + MTBE <input checked="" type="checkbox"/> 8260 full scan <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphthalene <input checked="" type="checkbox"/> 1,2-Methylnaphthalene <input type="checkbox"/> Oxygenates <input type="checkbox"/> NWTPH-Gx <input type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPT <input checked="" type="checkbox"/> WA EPH <input checked="" type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <input type="checkbox"/> TCLP RCRA 8 Metals <input type="checkbox"/> TCLP Volatiles & Semivolatiles <input type="checkbox"/> EDB/EDC by 8260 <input type="checkbox"/> Moisture										SCR #:	
Site Address <u>232 E. Woodin Ave, Chelam WA</u>																			
Chevron PM <u>Eric Hetrick</u> Lead Consultant																			
Consultant/Office <u>Leidos / Bothell, WA</u>																			
Consultant Project Mgr. <u>Russ Shropshire</u>																			
Consultant Phone # <u>425-482-3323</u>																			
Sample <u>R. Otteman and T. Dube</u>																			
2 Sample Identification			3 Collected																
			Date	Time															
<u>Purified water - 1-111718</u>			<u>11/17/18</u>	<u>1430</u>															
<u>IDW-Develop - 111718</u>			<u>11/17/18</u>	<u>1430</u>															
<u>DUP-3-111418</u> *			<u>11/14/18</u>	<u>1100</u>															
<u>TB-12-111718</u>			<u>11/17/18</u>	<u>1200</u>															
<u>TB-13-111718</u>			<u>11/17/18</u>	<u>1215</u>															
<u>TB-14-111718</u>			<u>11/17/18</u>	<u>1230</u>															
<u>TB-15-111718</u>			<u>11/17/18</u>	<u>1245</u>															
<u>TB-16-111718</u>			<u>11/17/18</u>	<u>1300</u>															
					7 Turnaround Time Requested (TAT) (please circle)					8 Data Package (circle if required)		9 Relinquished by		Date		Time			
					all others <u>Standard</u> <u>5 day</u> <u>IPW sample only</u> 72 hour 48 hour 24 hour					Type I - Full Type VI (Raw Data)		EDD (circle if required) CVX-RTBU-FL_05 (default) Other:		Relinquished by <u>Thomas Dube</u> Date <u>11.19.18</u> Time <u>16:00</u>					
					Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____														
					Temperature Upon Receipt _____ °C							Custody Seals Intact? Yes No							

- Results in Dry Weight
- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation
- Confirm MTBE + Naphthalene
- Confirm highest hit by 8260
- Confirm all hits by 8260
- Run \_\_\_\_\_ oxy's on highest hit
- Run \_\_\_\_\_ oxy's on all hits

← 5-day TAT  
 ← Standard TAT  
 \* Naphthalene and 1,2-Methylnaphthalenes (8270) to be tested only on DUP-3-111418



Client: Chevron c/o Leidos

**Delivery and Receipt Information**

Delivery Method: UPS Arrival Timestamp: 11/20/2018 9:25  
 Number of Packages: 8 Number of Projects: 1

**Arrival Condition Summary**

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	20
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	Yes		
Discrepancy in Container Qty on COC:	No		

Unpacked by Nicole Reiff (25684) at 11:08 on 11/20/2018

**Samples Chilled Details**

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.4	DT	Wet	Y	Bagged	N
2	DT146	0.1	DT	Wet	Y	Bagged	N
3	DT146	1.8	DT	Wet	Y	Bagged	N
4	DT146	1.0	DT	Wet	Y	Bagged	N
5	DT146	1.6	DT	Wet	Y	Bagged	N
6	DT146	1.2	DT	Wet	Y	Bagged	N
7	DT146	0.6	DT	Wet	Y	Bagged	N
8	DT146	0.9	DT	Wet	Y	Bagged	N

**Extra Sample Details**

Sample ID on Label	Number of Extra Containers	Date on Label	Comments
TB-16-111718	4	11/17/2018 13:00	
TB-15-111718	4	11/17/2018 12:45	
TB-12-111718	4	11/17/2018 12:00	
TB-13-111718	4	11/17/2018 12:15	
TB-14-111718	4	11/17/2018 12:30	

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mL</b>	milliliter(s)
<b>C</b>	degrees Celsius	<b>MPN</b>	Most Probable Number
<b>cfu</b>	colony forming units	<b>N.D.</b>	non-detect
<b>CP Units</b>	cobalt-chloroplatinate units	<b>ng</b>	nanogram(s)
<b>F</b>	degrees Fahrenheit	<b>NTU</b>	nephelometric turbidity units
<b>g</b>	gram(s)	<b>pg/L</b>	picogram/liter
<b>IU</b>	International Units	<b>RL</b>	Reporting Limit
<b>kg</b>	kilogram(s)	<b>TNTC</b>	Too Numerous To Count
<b>L</b>	liter(s)	<b>µg</b>	microgram(s)
<b>lb.</b>	pound(s)	<b>µL</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>umhos/cm</b>	micromhos/cm
<b>meq</b>	milliequivalents	<b>MCL</b>	Maximum Contamination Limit
<b>mg</b>	milligram(s)		
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

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

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
P^	Concentration difference between the primary and confirmation column $> 40\%$ . The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

**Appendix C:**  
**Geophysical Survey LLC Summary Report**

---

Geophysical Survey LLC  
711 S Tacoma Street  
Kennewick, Washington 99336

November 1, 2018

Russell Shropshire  
Leidos  
18912 North Creek Parkway, Suite 101  
Bothell, WA 98011

**Re:** *Utility Locate*  
*Project #327875.00.18.W.161D.0706.0100*  
*Chelan, WA*

Mr. Shropshire:

Geophysical Survey LLC conducted utility locating at eleven locations in Chelan, Washington on October 23 & 24, 2018. The objective of the survey was to detect and delineate subsurface utilities and re-mark the underground storage tanks (USTs) at the intersection of E Woodin Avenue and N Emerson Street.

## **Methodology**

### ***Ground-Penetrating Radar***

Ground-penetrating radar (GPR) uses a transducer to transmit FM frequency electromagnetic energy into the ground. Interfaces in the subsurface, defined by contrasts in dielectric constants, magnetic susceptibility, and to some extent, electrical conductivity, reflect the transmitted energy. The GPR system then measures the travel time between transmitted pulses and arrival of reflected energy. Buried objects such as pipes, barrels, foundations, and buried wires can cause all or a portion of the transmitted energy to be reflected back towards a receiving antenna. Geologic features such as cross-bedding, lateral and vertical changes in soil properties, and rock interfaces can also cause reflections of a portion of the EM energy.

The dielectric constant and magnetic susceptibility of the medium primarily control the velocity of the EM energy. Values of EM velocities, for depth calculations, are determined by measurement, experience in an area, by ties to known buried reflectors, and from knowledge of the subsurface medium.

The depth of investigation is a function of the transmit power, receiver sensitivity, frequency of the antenna, and attenuation of the transmitted energy due to the geologic medium. The maximum depth of investigation may vary significantly as a result of the changing soil conditions. High attenuation, and consequent smaller penetration depths, of the EM energy typically occurs where the soil conductivity is greater than 25 milli-siemens per meter and/or in areas with numerous reflective interfaces. Depth of

investigation is also affected by highly conductive material, such as metal drums and pipes that essentially reflect all the energy. The method cannot “see” directly below areas of highly reflective material because all of the energy is reflected.

### ***Electromagnetic Line Locating***

Utility line locating equipment operates through the principles of electromagnetics (EM), designed to detect underground utilities constructed of electrically conductive materials. An active signal is applied to the underground utility by means of a radio frequency (RF) transmitter and then traced with a receiver. With direct coupling, an RF signal is applied to a cable or pipe where there is access to a contact point. With no access to the utility, the indirect mode is used. A transmitter is placed on the ground surface above the conductor and the signal is induced through earth onto the pipe or cable.

The active signal is created from current flowing from the transmitter, along the conductor (utility line), and back to the transmitter thru the ground. The signal can also return thru other utility lines. This type of return can distort the electromagnetic field and cause erroneous locations.

Passive signals include power transmission (60Hz) and radio transmission (15kHz-27kHz). 60Hz signals are present in conductors carrying electric current and from utilities carrying return current (indirect induction). Radio signals are created by high power, low frequency communication transmitters. Conductive utilities re-radiate the signal. A receiver is used to trace power and radio transmissions.

## **FIELD SURVEY**

### ***Mapping Control***

A Trimble Pro6H GPS with sub-foot level accuracy was used mapping subsurface utility lines and scan area extents.

### ***GPR Data Acquisition***

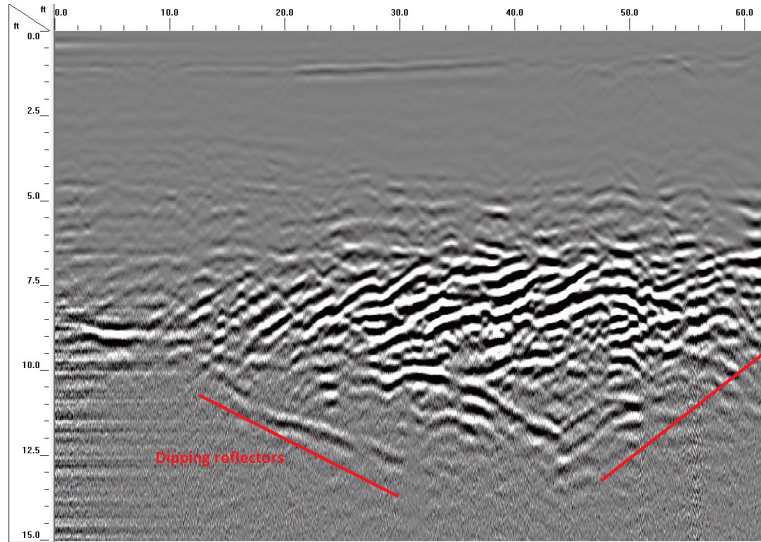
GPR data were acquired with a Geophysical Survey Systems, Inc. (GSSI) SIRG1 control unit and a 350 MHz antenna. GPR data were collected at 18 scans/foot with a 57 nano-Second window (approximately 9 feet with a dielectric constant of 8).

## **RESULTS AND INTERPRETATION**

The boring location on the west side of the Wells Fargo bank contained a sanitary sewer tank at a depth of approximately 12 feet. The connection between the tank and the east west sanitary sewer line to the south was not detected. The manhole with the sanitary sewer tank is shown on Figure 4.

Underground storage tanks (USTs) were detected on the north side of Woodin Avenue while locating subsurface utilities. The USTs are north of the planned drilling locations in the parking lot of Jerrys Auto Supply. The USTs are shown on Figure 3.

The GPR Feature on Figure 5 refers to a channel like feature in the GPR data. An example of the feature is shown below in image GPR Data 1.



**GPR Data 1**

The anomaly is interpreted as a natural geologic feature. It has characteristics of a buried alluvial channel.

### **CLOSURE**

Geophysical surveys performed as part of this survey may or may not successfully detect or delineate any or all subsurface objects or features present. Locations, depths and scale of buried objects or subsurface features mapped as a result of this survey are a result of geophysical interpretation, and should be considered as confirmed, actual, or accurate only where recovered by excavation or drilling.

Geophysical Survey LLC performed this work in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions. No warranty, express or implied, beyond exercise of reasonable care and professional diligence, is made. This report is intended for use only in accordance with the purposes of the study described within.

Respectfully,

Geophysical Survey LLC

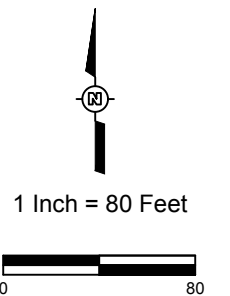
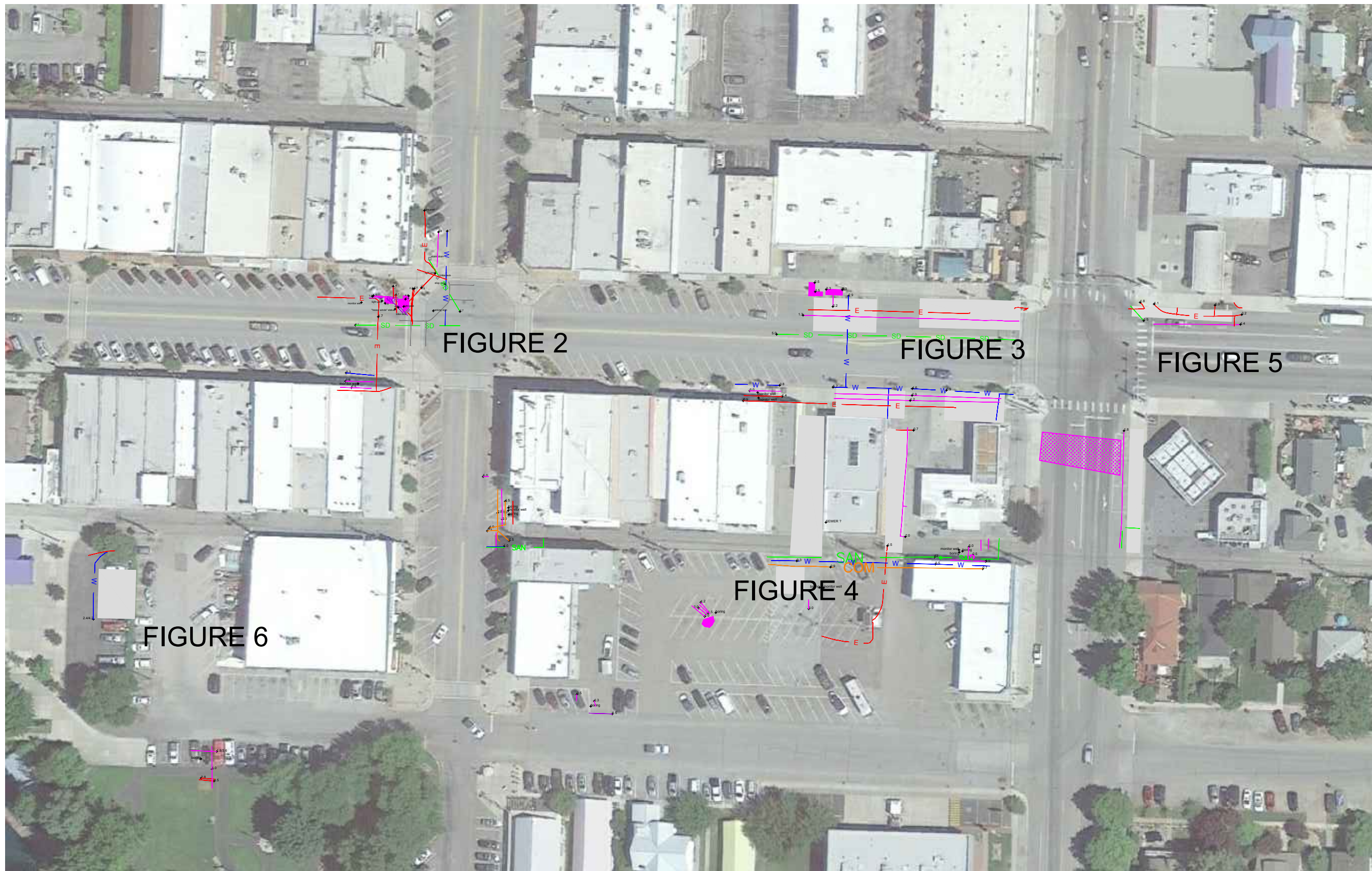
Mark Villa L.G.  
Geophysicist



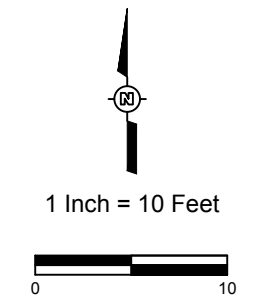
**Utility Locate  
Chelan, WA**

**LIST OF FIGURES**

Figure 1	Site Map
Figure 2	Utility Map
Figure 3	Utility Map
Figure 4	Utility Map
Figure 5	Utility Map
Figure 6	Utility Map

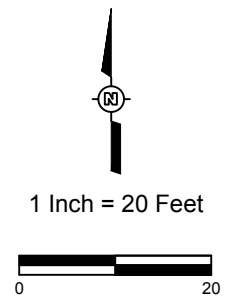
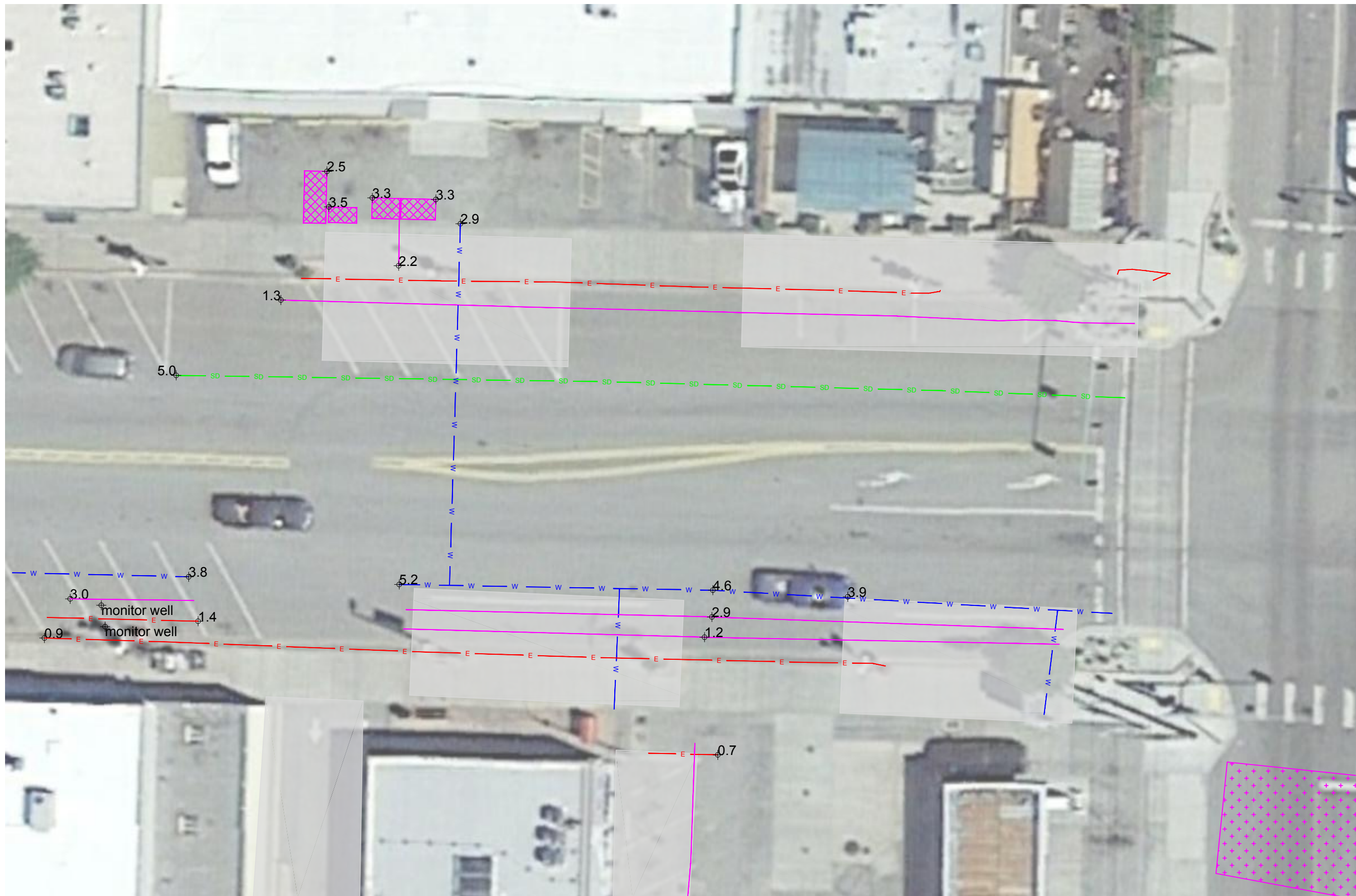






**Legend**

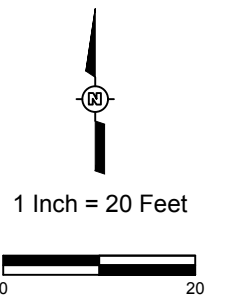
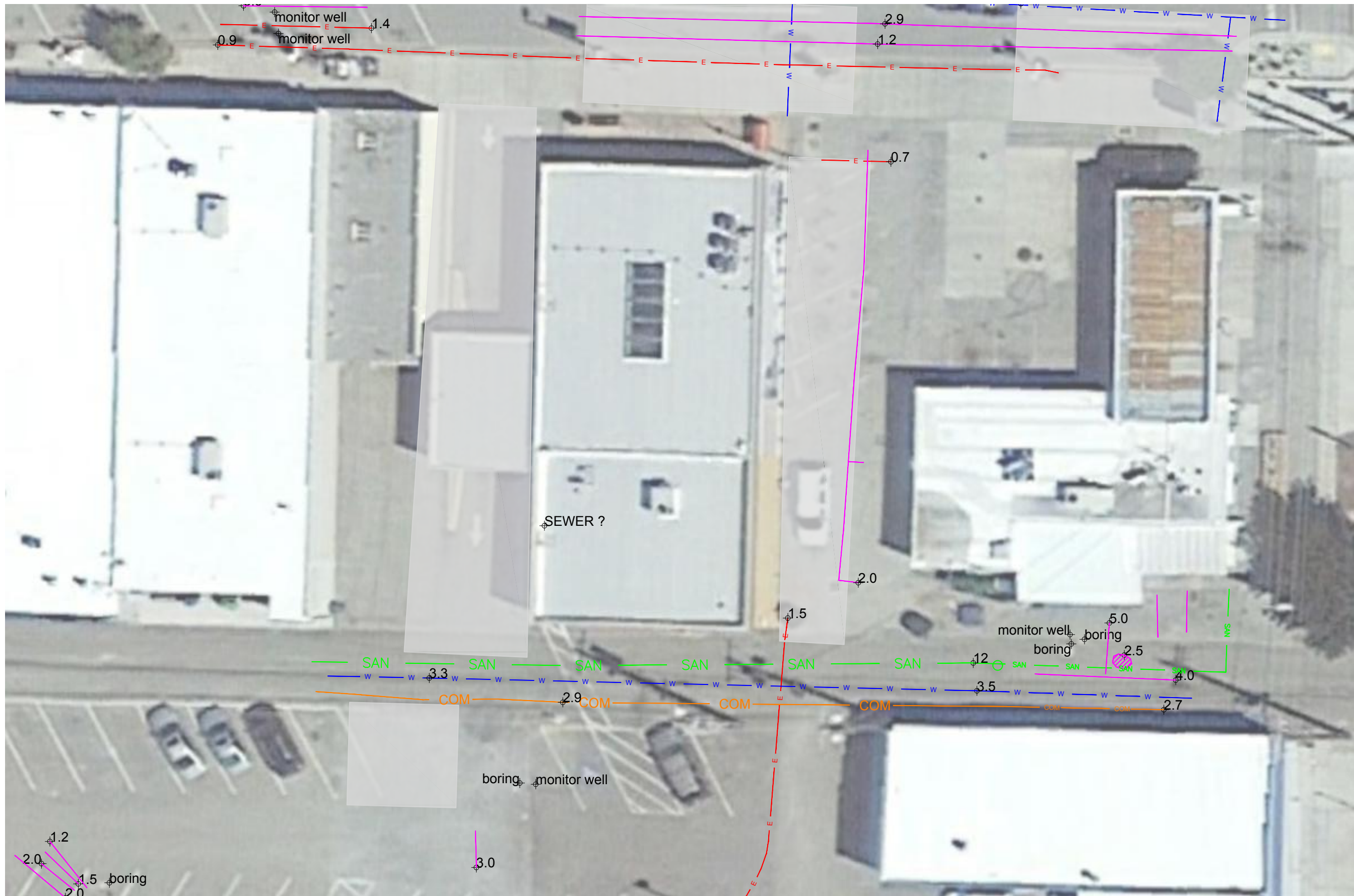
- ↕ 2.0 Depth to top in feet
- Unknown utility
- E — Electric line
- W — Water line
- IRR — Irrigation line
- COM — Telcom line
- SD — Storm sewer
- ▨ UST
- ▭ Scan area



### Legend

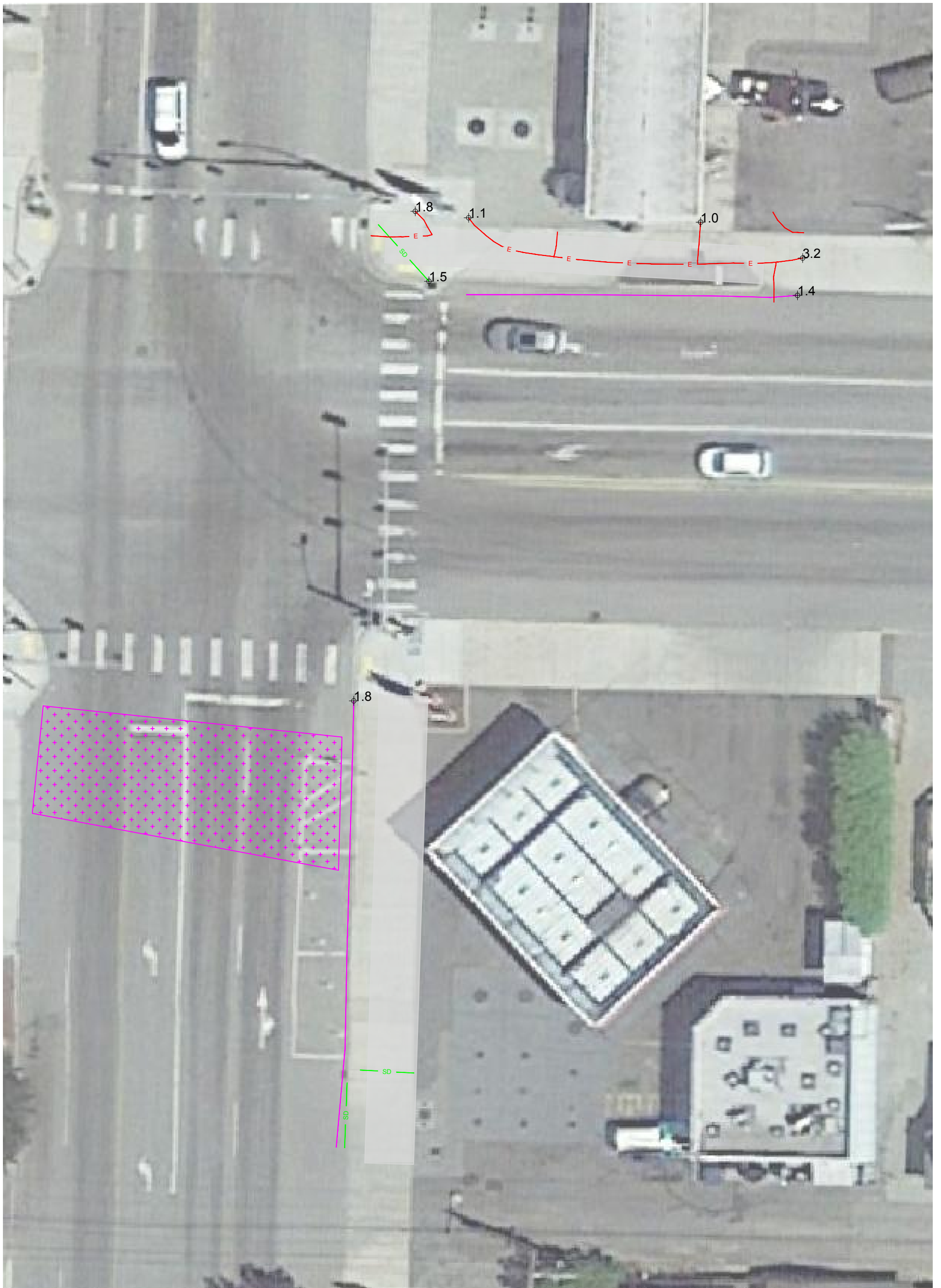
- 2.0 Depth to top in feet
- Unknown utility
- Electric line
- Water line
- Irrigation line
- Telecom line
- Storm sewer
- UST
- GPR Feature
- Scan area





**Legend**

- 2.0 Depth to top in feet
- Unknown utility
- E Electric line
- W Water line
- IRR Irrigation line
- COM Telecom line
- SD Storm sewer
- UST
- GPR Feature
- Scan area



### Legend

- 2.0 Depth to top in feet
- Unknown utility
- E Electric line
- W Water line
- IRR Irrigation line
- COM Telcom line
- SD Storm sewer
- UST
- GPR Feature
- Scan area



1 Inch = 20 Feet





2.4/4.2

### Legend

- Depth to top in feet
- Unknown utility
- Electric line
- Water line
- Irrigation line
- Telecom line
- Storm sewer
- UST
- GPR Feature
- Scan area



1 Inch = 10 Feet



**Appendix D:**  
**Gettler-Ryan Groundwater Monitoring and Sampling Data Packages**

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# GETTLER-RYAN INC.

## TRANSMITTAL

December 14, 2018  
G-R #17156610

TO: Mr. Russell Shropshire  
Leidos, Inc.  
18939 120<sup>th</sup> Avenue NE, Suite 112  
Bothell, Washington 98011

FROM: Deanna L. Harding  
Project Manager  
Gettler-Ryan Inc.  
6805 Sierra Court, Suite G  
Dublin, California 94568

RE: **Chevron Service Station**  
**#9-6590**  
**232 Woodin Avenue**  
**Chelan, Washington**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Fourth Quarter Event of December 4, 2018

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/9-6590



# GETTLER - RYAN INC.

## CHEVRON - SITE CHECK LIST

Facility#: Chevron #9-6590	Date: 12/4/18
Address: 232 Woodin Avenue	
City/St.: Chelan, WA	
Status of Site: ACTIVE CHEVRON / STREETS WELLS	

### DRUMS:

Please list below ALL DRUMS on site:  
(i.e., drum description, condition, labeling, contents and location of drums)



#	Description	Condition	Labeling	Contents/Capacity	Location
1-12	55gal DRUMS	OK	Y	SOIL CONTAMINANT / 100%	Compound
13-23	YELLOW OVERPAK 55gal DRUMS	OK	Y	DECON WASTE / 100%	BLOCKING COMPOUND

### WELLS:

Please check the condition of ALL WELLS on site:  
(i.e., gaskets, bolts, replaced well plug and/or well lock, well box condition and etc.)

Well ID	Gaskets (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Replaced Plug Y/N	Replaced Lock Y/N	Well Box Manufacturer/Size/# of Bolts	Other
MW-2	OK	OK	NO	NO	OPW / 12 / 6	
MW-5					MORRIS / 8 / 2	
MW-6						3
MW-7						↓
MW-8						2
MW-9						↓
MW-10						3
MW-12						
MW-15						
MW-16						
MW-17						
MW-18						
MW-19						
MW-21						
MW-22						
MW-23						↓
MW-25						12
MW-27						8
MW-28						
MW-30						
MW-31						
MW-36						
MW-37						
MW-38						
MW-39						

Additional Comments/Observations:

- CLEAR HAZARDS SHOWN W/ AND STARTED TAKEN DRUMS
- Was the fence for the compound locked? (Y) N
- Was the drum storage locker locked and secure? (Y) N
- Is the signage on the fence present and legible? (Y) N



# GETTLER-RYAN INC.

## CHEVRON - SITE CHECK LIST

Facility#: Chevron #9-6590

Date: 12/4/13

Address: 232 Woodin Avenue

City/St.: Chelan, WA

Status of Site: ACTIVE CHEVRON / STREET WELLS

WELLS:

Please check the condition of ALL WELLS on site:  
(i.e., gaskets, bolts, replaced well plug, well lock, well box condition and etc.)

--- Continued ---

Well ID	Gaskets (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Replaced Plug Y/N	Replaced Lock Y/N	Well Box Manufacturer/Size/# of Bolts	Other
MW-40	JK	DLC	N	N	MORRISON / 8 / 12	
MW-41	↓	↓	↓	↓	MORRISON 8	
MW-42						
MW-43						
MW-44						
MW-45						
MW-46					12	
RW-1					8	
RW-2					12	
RW-3					12	

Additional Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-2  
 Well Diameter: 2(4) in.  
 Total Depth: 23.55 ft.  
 Depth to Water: 20.26 ft.

Date Monitored: 12/4/18

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume \_\_\_\_\_ gal

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	<u>Ø</u>
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/18 (inclusive)  
 City: Chelan, WA Sampler: GM

Well ID: MW-5  
 Well Diameter: (2) 4 in.  
 Total Depth: 34.47 ft.  
 Depth to Water: 20.52 ft.  
13.95 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	_____	ft
Depth to Water:	_____	ft
Hydrocarbon Thickness:	<u>0</u>	ft
Visual Confirmation/Description:	_____	
Skimmer / Absorbant Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FEROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/18 (inclusive)  
 City: Chelan, WA Sampler: GM

Well ID: MW-6 Date Monitored: 12/4/18  
 Well Diameter: (2) 4 in.  
 Total Depth: 35.85 ft.  
 Depth to Water: 25.00 ft.  Check if water column is less than 0.50 ft.  
10.85 xVF - = - x3 case volume = Estimated Purge Volume: - gal

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): -

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 24.98 ft  
 Depth to Water: 25.00 ft  
 Hydrocarbon Thickness: 0.02 ft  
 Visual Confirmation/Description  
AMBIKE / OILY  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	DO (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA MB

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-7  
 Well Diameter: 204 in.  
 Total Depth: 37.22 ft.  
 Depth to Water: 24.02 ft.  
13.20 xVF =          x3 case volume = Estimated Purge Volume          gal

Date Monitored: 12/4/18

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW):         

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date:          /          Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/13 (inclusive)  
 City: Chelan, WA Sampler: GM

Well ID: MW-8 Date Monitored: 12/4/13  
 Well Diameter: 2.4 in.  
 Total Depth: 34.70 ft.  
 Depth to Water: 21.14 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

13.56 xVF — = — x3 case volume = Estimated Purge Volume — gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW):                     

**Purge Equipment:**  
 Disposable Bailer                       
 Stainless Steel Bailer                       
 Stack Pump                       
 Peristaltic Pump                       
 QED Bladder Pump                       
 Other                     

**Sampling Equipment:**  
 Disposable Bailer                       
 Pressure Bailer                       
 Metal Filters                       
 Peristaltic Pump                       
 QED Bladder Pump                       
 Other                     

Time Started                      (2400 hrs)  
 Time Completed:                      (2400 hrs)  
 Depth to Product:                      ft  
 Depth to Water:                      ft  
 Hydrocarbon Thickness:                      ft  
 Visual Confirmation/Description                       
 Skimmer / Absorbent Sock (circle one)                       
 Amt Removed from Skimmer:                      ltr  
 Amt Removed from Well                      ltr  
 Water Removed:                      ltr  
 Product Transferred to                     

Start Time (purge):                      Weather Conditions:                       
 Sample Time/Date:                      Water Color:                      Odor: Y / N  
 Approx. Flow Rate:                      mlpm Sediment Description:                       
 Did well de-water?                      If yes, Time:                      Volume:                      ltrs DTW @ Sampling:                     

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket:                      Add/Replaced Bolt:                      Add/Replaced Plug:                      Add/Replaced Lock:





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-9  
 Well Diameter: 204 in.  
 Total Depth: 40.48 ft.  
 Depth to Water: 33.44 ft.  
7.04 xVF = \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal

Date Monitored: 12/4/18

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>29.69</u>	ft
Depth to Water:	<u>33.44</u>	ft
Hydrocarbon Thickness:	<u>3.75</u>	ft
Visual Confirmation/Description:	<u>LT Brown / oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to	_____	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINERS	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/13 (inclusive)  
 City: Chelan, WA Sampler: GM

Well ID: MW-10  
 Well Diameter: 21.4 in.  
 Total Depth: 37.86 ft.  
 Depth to Water: 26.19 ft.  
11.67 xVF =          x3 case volume = Estimated Purge Volume          gal

Date Monitored: 12/4/13

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW):         

**Purge Equipment:**

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>26.02</u>	ft
Depth to Water:	<u>26.19</u>	ft
Hydrocarbon Thickness:	<u>0.17</u>	ft
Visual Confirmation/Description:	<u>OK</u>	
Skimmer / Absorbant Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date:          / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-12  
 Well Diameter: 204 in.  
 Total Depth: 37.00 ft.  
 Depth to Water: 23.16 ft.  
13.84 xVF =        x3 case volume = Estimated Purge Volume        gal.

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW):       

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 22.62 ft  
 Depth to Water: 23.16 ft  
 Hydrocarbon Thickness: 0.54 ft  
 Visual Confirmation/Description:  
LT Brown / oily  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date:        / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN Inc.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/13 (inclusive)  
 Sampler: GM

Well ID: MW-15  
 Well Diameter: 2.04 in.  
 Total Depth: 39.28 ft.  
 Depth to Water: 24.12 ft.  
15.16 xVF = 1 = --- x3 case volume = Estimated Purge Volume --- gal.

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): ---

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0.5</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: 1 / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/13 (inclusive)  
 Sampler: GM

Well ID: MW-16  
 Well Diameter: 2.04 in.  
 Total Depth: 50.03 ft.  
 Depth to Water: 45.95 ft.  
4.08 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 12/4/13

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>35.22</u>	ft
Depth to Water:	<u>45.95</u>	ft
Hydrocarbon Thickness:	<u>10.73</u>	ft
Visual Confirmation/Description:	<u>LT Amber/Oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA N/A

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-17  
 Well Diameter: 214 in  
 Total Depth: 38.40 ft  
 Depth to Water: 21.66 ft  
16.74 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	<u>✓</u>
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN Inc.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-18  
 Well Diameter: 2.4 in.  
 Total Depth: 39.04 ft.  
 Depth to Water: 21.30 ft.  
17.74 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-19  
 Well Diameter: 2.4 in.  
 Total Depth: 40.04 ft.  
 Depth to Water: 25.97 ft.  
14.07 xVF = — = — x3 case volume = Estimated Purge Volume — gal

Date Monitored: 12/4/18

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 24.62 ft  
 Depth to Water: 25.97 ft  
 Hydrocarbon Thickness: 1.35 ft  
 Visual Confirmation/Description:  
LT IRAD-1024  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: MA M/D

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/13 (inclusive)  
 Sampler: GM

Well ID: MW-21  
 Well Diameter: 2.04 in  
 Total Depth: 39.93 ft  
 Depth to Water: 30.66 ft  
9.27 xVF = \_\_\_\_\_

Date Monitored: 12/4/13

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume \_\_\_\_\_ gal

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Penstaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>25.09</u>	ft
Depth to Water:	<u>30.66</u>	ft
Hydrocarbon Thickness:	<u>5.58</u>	ft
Visual Confirmation/Description	<u>LT BROWN / OILY</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to	_____	

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN Inc.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-22  
 Well Diameter: 214 in.  
 Total Depth: 41.15 ft.  
 Depth to Water: 24.61 ft.  
16.54 xVF - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 12/4/18

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): -

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: Ø ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	DO (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-23  
 Well Diameter: (2) 4 in  
 Total Depth: 38.70 ft  
 Depth to Water: 24.94 ft  
13.26 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume \_\_\_\_\_ gal

Date Monitored: 12/4/18

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): ✓

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/13 (inclusive)  
 City: Chelan, WA Sampler: GM

Well ID: MW-25 Date Monitored: 12/4/13  
 Well Diameter: 2(4) in.  
 Total Depth: 49.65 ft.  
 Depth to Water: 31.6 ft.  Check if water column is less than 0.50 ft.  
18.49 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 31.14 ft  
 Depth to Water: 31.16 ft  
 Hydrocarbon Thickness: 0.02 ft  
 Visual Confirmation/Description:  
LT Brown / only  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-27  
 Well Diameter: 2.14 in.  
 Total Depth: 40.04 ft.  
 Depth to Water: 36.96 ft.  
3.08 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume \_\_\_\_\_ gal

Date Monitored: 12/4/18

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: _____	(2400 hrs)
Time Completed: _____	(2400 hrs)
Depth to Product: <u>25.22</u>	ft
Depth to Water: <u>36.96</u>	ft
Hydrocarbon Thickness: <u>11.74</u>	ft
Visual Confirmation/Description _____	
Skimmer / Absorbent Sock (circle one)	
Amt Removed from Skimmer: _____	ltr
Amt Removed from Well: _____	ltr
Water Removed: _____	ltr
Product Transferred to: _____	

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/13 (inclusive)  
 City: Chelan, WA Sampler: GM

Well ID: MW-28 Date Monitored: 12/4/13  
 Well Diameter: 21.4 in.  
 Total Depth: 38.31 ft.  
 Depth to Water: 20.27 ft.  Check if water column is less than 0.50 ft.  
18.04 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FEROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-30  
 Well Diameter: 24 in.  
 Total Depth: 94.40 ft.  
 Depth to Water: 86.82 ft.  
7.58 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 12/4/18

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: _____	(2400 hrs)
Time Completed: _____	(2400 hrs)
Depth to Product: _____	ft
Depth to Water: _____	ft
Hydrocarbon Thickness: <u>6</u>	ft
Visual Confirmation/Description: _____	
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer: _____	ltr
Amt Removed from Well: _____	ltr
Water Removed: _____	ltr
Product Transferred to: _____	

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-31  
 Well Diameter: 214 in.  
 Total Depth: 92.34 ft.  
 Depth to Water: 84.85 ft.  
7.49 xVF =        =        x3 case volume = Estimated Purge Volume:        gal.

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:       

**Purge Equipment:**

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date:        /         
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: MA M60

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-316  
 Well Diameter: 214 in.  
 Total Depth: 49.48 ft.  
 Depth to Water: 29.12 ft.  
20.36 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>8</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-37  
 Well Diameter: 2.4 in.  
 Total Depth: 93.01 ft.  
 Depth to Water: 87.76 ft.  
5.25 xVF = \_\_\_\_\_

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

**Purge Equipment:**

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

Time Started: _____	(2400 hrs)
Time Completed: _____	(2400 hrs)
Depth to Product: _____	ft
Depth to Water: _____	ft
Hydrocarbon Thickness: <u>0</u>	ft
Visual Confirmation/Description: _____	
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer: _____	ltr
Amt Removed from Well: _____	ltr
Water Removed: _____	ltr
Product Transferred to: _____	

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN Inc.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/13 (inclusive)  
 Sampler: GM

Well ID: MW-38  
 Well Diameter: 2.4 in.  
 Total Depth: 46.23 ft.  
 Depth to Water: DRY ft.

Date Monitored: 12/4/13

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume \_\_\_\_\_ gal

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: N/A M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-39  
 Well Diameter: 274 in.  
 Total Depth: 45.45 ft.  
 Depth to Water: DF4 ft.

Date Monitored: 12/4/18

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ m/lpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN Inc.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/13 (inclusive)  
 City: Chelan, WA Sampler: GM

Well ID: MW-40 Date Monitored: 12/4/13  
 Well Diameter: 214 in.  
 Total Depth: 43.73 ft.  
 Depth to Water: DRY ft.  Check if water column is less than 0.50 ft.  
 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume \_\_\_\_\_ gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/18 (inclusive)  
 City: Chelan, WA Sampler: GM

Well ID: MW-41 Date Monitored: 12/4/18  
 Well Diameter: (2) 4 in.  
 Total Depth: 35.57 ft.  
 Depth to Water: 22.26 ft.  Check if water column is less than 0.50 ft.  
13.31 xVF — = — x3 case volume = Estimated Purge Volume: — gal

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-42  
 Well Diameter: (2) 4 in.  
 Total Depth: 33.02 ft.  
 Depth to Water: 23.66 ft.  
9.36 xVF = \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume \_\_\_\_\_ gal.

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

**Purge Equipment:**

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter/ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN Inc.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
Site Address: 232 Woodin Avenue  
City: Chelan, WA

Job Number: 17156610  
Event Date: 12/4/18 (inclusive)  
Sampler: GM

Well ID: MW-43  
Well Diameter: 214 in.  
Total Depth: 33.36 ft.  
Depth to Water: 22.38 ft.  
10.98 xVF = \_\_\_\_\_

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
Stainless Steel Bailer \_\_\_\_\_  
Stack Pump \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump \_\_\_\_\_  
Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
Pressure Bailer \_\_\_\_\_  
Metal Filters \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump \_\_\_\_\_  
Other: \_\_\_\_\_

Time Started: _____	(2400 hrs)
Time Completed: _____	(2400 hrs)
Depth to Product: _____	ft
Depth to Water: _____	ft
Hydrocarbon Thickness: <u>0</u>	ft
Visual Confirmation/Description _____	
Skimmer / Absorbent Sock (circle one)	
Amt Removed from Skimmer: _____	ltr
Amt Removed from Well: _____	ltr
Water Removed: _____	ltr
Product Transferred to: _____	

Start Time (purge): \_\_\_\_\_  
Sample Time/Date: /  
Approx. Flow Rate: \_\_\_\_\_ mlpm  
Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
Water Color: \_\_\_\_\_ Odor: Y / N  
Sediment Description: \_\_\_\_\_  
Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/18 (inclusive)  
 City: Chelan, WA Sampler: CM

Well ID: MW-44 Date Monitored: 12/4/18  
 Well Diameter: (2) 14 in.  
 Total Depth: 39.55 ft.  
 Depth to Water: 24.16 ft.  Check if water column is less than 0.50 ft.  
15.39 xVF - = - x3 case volume = Estimated Purge Volume: - gal

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: -

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: Ø ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: N/A M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 12/4/18 (inclusive)  
 Sampler: GM

Well ID: MW-45  
 Well Diameter: 24 in.  
 Total Depth: 36.75 ft.  
 Depth to Water: 23.22 ft.  
13.43 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume \_\_\_\_\_ gal

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started \_\_\_\_\_ (2400 hrs)  
 Time Completed \_\_\_\_\_ (2400 hrs)  
 Depth to Product \_\_\_\_\_ ft  
 Depth to Water \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed \_\_\_\_\_ ltr  
 Product Transferred to \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/18 (inclusive)  
 City: Chelan, WA Sampler: GM

Well ID: MW-46 Date Monitored: 12/4/18  
 Well Diameter: 2 1/4 in.  
 Total Depth: 39.02 ft.  
 Depth to Water: 24.95 ft.  Check if water column is less than 0.50 ft.  
14.07 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: Ø ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/18 (inclusive)  
 City: Chelan, WA Sampler: GM

Well ID: ROW-1  
 Well Diameter: 2(4) in  
 Total Depth: 49.69 ft  
 Depth to Water: 31.83 ft  
17.86 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal

Date Monitored: 12/4/18

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer /  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started	_____	(2400 hrs)
Time Completed	_____	(2400 hrs)
Depth to Product	_____	ft
Depth to Water	_____	ft
Hydrocarbon Thickness	_____	ft
Visual Confirmation/Description	_____	
Skimmer / Absorbant Sock (circle one)	_____	
Amt Removed from Skimmer	_____	ltr
Amt Removed from Well	_____	ltr
Water Removed	_____	ltr
Product Transferred to	_____	

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/19 (inclusive)  
 City: Chelan, WA Sampler: CM

Well ID: ROW-2 Date Monitored: 12/4/19  
 Well Diameter: 2 1/4 in.  
 Total Depth: 49.92 ft  
 Depth to Water: 37.96 ft

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

11.96 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume \_\_\_\_\_ gal

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 37.96 ft  
 Depth to Water: 37.96 ft  
 Hydrocarbon Thickness: 0.10 ft  
 Visual Confirmation/Description:  
LT Brown/gray  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300 0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 12/4/13 (inclusive)  
 City: Chelan, WA Sampler: GM

Well ID: RAW-B Date Monitored: 12/4/13  
 Well Diameter: 2 1/4 in.  
 Total Depth: 39.83 ft.  
 Depth to Water: 24.94 ft.  Check if water column is less than 0.50 ft.  
14.89 xVF      =      x3 case volume = Estimated Purge Volume      gal

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:     

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other \_\_\_\_\_

Time Started	_____	(2400 hrs)
Time Completed	_____	(2400 hrs)
Depth to Product	_____	ft
Depth to Water	_____	ft
Hydrocarbon Thickness	<u>    </u>	ft
Visual Confirmation/Description	_____	
Skimmer / Absorbant Sock (circle one)	_____	
Amt Removed from Skimmer	_____	ltr
Amt Removed from Well	_____	ltr
Water Removed	_____	ltr
Product Transferred to	_____	

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date:      /      Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x voa vial	YES	HCL	EUROFINS	METHANE(RSKOP-175M)
	x voa vial	YES	NP	EUROFINS	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	EUROFINS	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	EUROFINS	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED MANGANESE(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: N/A M/O



# GETTLER-RYAN INC.



## TRANSMITTAL

May 9, 2018  
G-R #17156610

TO: Mr. Russell Shropshire  
Leidos, Inc.  
18939 120<sup>th</sup> Avenue NE, Suite 112  
Bothell, Washington 98011

FROM: Deanna L. Harding  
Project Manager  
Gettler-Ryan Inc.  
6805 Sierra Court, Suite G  
Dublin, California 94568

RE: Chevron Service Station  
#9-6590  
232 Woodin Avenue  
Chelan, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package First Quarter Event of April 29 and April 30, 2019

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/9-6590

## **STANDARD OPERATING PROCEDURE, LOW-FLOW PURGING AND SAMPLING**

Gettler-Ryan Inc. field personnel adhere to the following Standard Operating Procedure (SOP) for the collection and handling of representative groundwater samples using the Low-Flow (Minimal-Drawdown) Purging technique. This SOP incorporates purging and sampling methods discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, April 1996 by Puls, R.W. and M.J. Barcelona - "*Low-Flow (Minimal-Drawdown) Ground-Water Sampling Procedures.*"

A QED Well Wizard™ (or equivalent) bladder pump or Peristaltic Pump will be used to purge and sample selected wells as outlined in the scope-of-work. An in-line flow cell or other multi-parameter meter is used to collect water quality indicating parameters during purging.

### ***Initial Pump Discharge Test Procedures***

The Static Water Level (SWL) is measured in all wells at the site prior to the installation of the pump or tubing and initiation of the test procedures in any well. In addition, the presence or absence of separate-phase hydrocarbons (SPH) is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot. The SWL measurement and SPH thickness, if any, will be recorded on the field data sheet. Total well depths are measured annually.

The bladder pump or suction inlet tubing of the peristaltic pump is then positioned with its inlet located within the screened interval of the well. The in-line flow cell is then connected to the discharge tubing. After pump installation, the SWL is allowed to recover to its original level. The pump is then started at a discharge rate between 100 ml to 300 ml per minute with the in-line flow cell connected. The water level is monitored continuously for any change from the original measurement and the discharge rate is adjusted until an optimum discharge rate (ODR) is determined. The goal for the ODR is to produce a stable drawdown of less than 0.1 meter as allowed by site conditions; however the total drawdown from the initial SWL should not exceed 25% of the distance between pump inlet location and the top of the well screen. Once achieved, the ODR will be confirmed by volumetric discharge measurement and recorded on the field data sheet.

### ***Purging and Water Quality Parameter Measurement***

When the ODR has been determined and the SWL drawdown has been established within the acceptable range, and a minimum of one pump system volume (bladder volume and/or discharge tubing volume) has been purged, field measurements for temperature (T), pH, conductivity (Ec), and if required, oxygen reduction potential (ORP) and dissolved oxygen (DO) will be collected and documented on the field data sheet. Measurements should be taken every three to five minutes until parameters stabilize for three consecutive readings. The minimum parameter subset of T ( $\pm 10\%$ ), pH ( $\pm 0.1$  unit), and Ec ( $\pm 10$  uS) are required to stabilize. Additional parameters that may be required are DO ( $\pm 0.2$  mg/l) and ORP ( $\pm 20$  mV).



## *Sample Collection*

When water quality parameters have stabilized, and the SWL drawdown remains established within the acceptable range, groundwater sample collection may begin. If used, the in-line flow cell and its tubing are disconnected from the discharge tubing prior to sample collection. Water samples are collected from the discharge tubing into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.



# GETTLER - RYAN INC.

<b>CHEVRON - SITE CHECK LIST</b> 4/29?	
Facility#: <b>Chevron #9-6590</b>	Date: <b>4/30/19</b>
Address: <b>232 Woodin Avenue</b>	
City/St.: <b>Chelan, WA</b>	
Status of Site: <b>ACTIVE CHEVRON</b>	

**DRUMS:**

Please list below ALL DRUMS on site:  
(i.e., drum description, condition, labeling, contents and location of drums)



#	Description	Condition	Labeling	Contents/Capacity	Location

**WELLS:**

Please check the condition of ALL WELLS on site:  
(i.e., gaskets, bolts, replaced well plug and/or well lock, well box condition and etc.)

Well ID	Gaskets (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Replaced Plug Y/N	Replaced Lock Y/N	Well Box Manufacturer/Size/# of Bolts	Other
MW-2	OK	OK	N	N	OPW 12/Ø	
MW-5	↓	↓	↓	↓	Morris 8/2	
MW-6	↓	↓	↓	↓	3	
MW-7	↓	↓	↓	↓	↓	
MW-8	↓	↓	↓	↓	2	
MW-9	↓	↓	↓	↓	↓	
MW-10	↓	↓	↓	↓	3	
MW-12	↓	↓	↓	↓		
MW-15	↓	↓	↓	↓		
MW-16	↓	↓	↓	↓		
MW-17	↓	↓	↓	↓		
MW-18	↓	↓	↓	↓		
MW-19	↓	↓	↓	↓		
MW-21	↓	↓	↓	↓		
MW-22	↓	↓	↓	↓		
MW-23	↓	↓	↓	↓	↓	
MW-25	↓	↓	↓	↓	12	
MW-27	↓	↓	↓	↓	8	
MW-28	↓	↓	↓	↓		
MW-30	↓	↓	↓	↓		
MW-31	↓	↓	↓	↓		
MW-36	↓	↓	↓	↓		
MW-37	↓	↓	↓	↓		
MW-38	↓	↓	↓	↓		
MW-39	↓	↓	↓	↓		

**Additional Comments/Observations:**

Was the fence for the compound locked? Y / N

Was the drum storage locker locked and secure? Y / N

Is the signage on the fence present and legible? Y / N



# GETTLER - RYAN INC.

<b>CHEVRON - SITE CHECK LIST</b> 4/29/19	
Facility#: Chevron #9-6590	Date: 4/30/19
Address: 232 Woodin Avenue	
City/St.: Chelan, WA	
Status of Site: ACTIVE CHEVRON / Street	

**WELLS:**

Please check the condition of ALL WELLS on site:  
(i.e., gaskets, bolts, replaced well plug, well lock, well box condition and etc.)

--- Continued ---

Well ID	Gaskets		Bolts		Replaced Plug Y/N	Replaced Lock Y/N	Well Box		Other
	(M) Missing (R) Replaced	(M) Missing (R) Replaced	(M) Missing (R) Replaced	(M) Missing (R) Replaced			Manufacturer/Size/# of Bolts		
MW-40	OK	OK	N	N			norm's	8 / 2	
MW-41	↓	↓	↓	↓			Norman	8 / 2	
MW-42	↓	↓	↓	↓			↓	↓	
MW-43	↓	↓	↓	↓			↓	↓	
MW-44	↓	↓	↓	↓			↓	↓	
MW-45	↓	↓	↓	↓			↓	↓	
MW-46	↓	↓	↓	↓			↓	12	
RW-1	↓	↓	↓	↓			↓	↓	
RW-2	↓	↓	↓	↓			↓	8	
RW-3	↓	↓	↓	↓			↓	12	↓

Additional Comments/Observations: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: MW-2  
 Well Diameter: 2 1/4 in.  
 Total Depth: 23.03 ft.  
 Depth to Water: 22.79 ft.

Date Monitored: 4/29/19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

0.24 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	<u>✓</u>
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x vov vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x vov vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/D

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: MW-5  
 Well Diameter: (2) 4 in.  
 Total Depth: 34.47 ft.  
 Depth to Water: 27.64 ft.

Date Monitored: 4/29/19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

6.83 xVF          =          x3 case volume = Estimated Purge Volume:          gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:         

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump X  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump X  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>X</u> _____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 0550  
 Sample Time/Date: 0632/4/30/19  
 Approx. Flow Rate: ~1.57 mlpm  
 Did well de-water? No If yes, Time: \_\_\_\_\_

Weather Conditions: COLD  
 Water Color: Brown Odor: YRN  
 Sediment Description: SILT  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: 27-70

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0608</u>	<u>2.83</u>	<u>7.17</u>	<u>1374</u>	<u>16.1</u>	<u>3.75</u>	<u>150.1</u>	<u>27.69</u>
<u>0611</u>	<u>3.31</u>	<u>7.15</u>	<u>1372</u>	<u>16.1</u>	<u>3.69</u>	<u>150.6</u>	<u>27.65</u>
<u>0614</u>	<u>3.78</u>	<u>7.14</u>	<u>1371</u>	<u>16.0</u>	<u>3.62</u>	<u>151.2</u>	<u>27.70</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW.5</u>	<u>6x vva vial</u>	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	<u>2 x 1 liter ambers</u>	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	<u>1 x 250ml poly</u>	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>x 500ml poly</u>	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1 x 250ml poly</u>	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>x 500ml poly</u>	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>2x vva vial</u>	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: ~ 31.05 ft.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: 6M

Well ID: MW-6  
 Well Diameter: (2) 4 in.  
 Total Depth: 35.85 ft.  
 Depth to Water: 28.62 ft.  
7.23 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4/29/19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	<u>28.59</u> ft
Depth to Water:	<u>28.62</u> ft
Hydrocarbon Thickness:	<u>0.03</u> ft
Visual Confirmation/Description:	<u>IRKAW 10/14</u>
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: 1  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA SPH

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: MW-7  
 Well Diameter: (2) 4 in.  
 Total Depth: 34.72 ft.  
 Depth to Water: 27.30 ft.  
7.42 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4/29/19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 27.18 ft  
 Depth to Water: 27.30 ft  
 Hydrocarbon Thickness: 0.12 ft  
 Visual Confirmation/Description:  
Brown oily  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA SPH



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: MW-8  
 Well Diameter: 214 in.  
 Total Depth: 34.70 ft.  
 Depth to Water: 24.03 ft.  
10.67 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4/29/19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump X  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump X  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: Ø ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0645  
 Sample Time/Date: 0727/4/30/19  
 Approx. Flow Rate: ~1.57 mlpm  
 Did well de-water? NO If yes, Time: \_\_\_\_\_

Weather Conditions: COLD  
 Water Color: CLEAR Odor: YTD  
 Sediment Description: SLT SILT  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: 24.10

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0703</u>	<u>2.83</u>	<u>7.35</u>	<u>1408</u>	<u>14.6</u>	<u>3.34</u>	<u>165.8</u>	<u>24.10</u>
<u>0706</u>	<u>3.31</u>	<u>7.37</u>	<u>1406</u>	<u>14.6</u>	<u>3.29</u>	<u>166.5</u>	<u>24.10</u>
<u>0709</u>	<u>3.78</u>	<u>7.36</u>	<u>1403</u>	<u>14.6</u>	<u>3.23</u>	<u>167.2</u>	<u>24.10</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Gx/BTEX(8260)/EDC(8260)</u>
	<u>2 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx w/sgc COLUMN/NWTPH-Dx</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>2 x voa vial</u>	<u>YES</u>	<u>Na2S2O3</u>	<u>EUROFINS</u>	<u>EDB(8011)</u>

COMMENTS: Depth Pump Set At: ~29 36ft

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: MW-9  
 Well Diameter: 214 in.  
 Total Depth: 40.48 ft.  
 Depth to Water: 36.36 ft.  
4.12 xVF = \_\_\_\_\_

Date Monitored: 4/29/19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>35.88</u>	ft
Depth to Water:	<u>36.36</u>	ft
Hydrocarbon Thickness:	<u>0.98</u>	ft
Visual Confirmation/Description:	<u>Below 1014</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GLI

Well ID: MW-10  
 Well Diameter: 214 in.  
 Total Depth: 37.88 ft.  
 Depth to Water: 28.76 ft.  
9.12 xVF = \_\_\_\_\_

Date Monitored: 4/29/19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 28.24 ft  
 Depth to Water: 28.76 ft  
 Hydrocarbon Thickness: 0.52 ft  
 Visual Confirmation/Description:  
Blow by  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: MW-12  
 Well Diameter: 2.24 in.  
 Total Depth: 37.00 ft.  
 Depth to Water: 27.19 ft.  
9.81 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4/29/19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>24.64</u>	ft
Depth to Water:	<u>27.19</u>	ft
Hydrocarbon Thickness:	<u>2.55</u>	ft
Visual Confirmation/Description:	<u>Brown / oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date:   /  /    
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M/B

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: MW-15  
 Well Diameter: 2.74 in.  
 Total Depth: 39.28 ft.  
 Depth to Water: 27.28 ft.  
12.00 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4/29/19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump x  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump x  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 1205  
 Sample Time/Date: 1305/4/30/19  
 Approx. Flow Rate: ~.157 mlpm  
 Did well de-water? NO If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: Cloudy Odo: YIN MODERATE  
 Sediment Description: CL SILT  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: 27.36

Time (2400 hr.)	Volume (Liters)	pH	Conductivity ( $\mu S/mS$ / $\mu mhos/cm$ )	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1223</u>	<u>2.83</u>	<u>8.01</u>	<u>545</u>	<u>15.0</u>	<u>2.74</u>	<u>-6.8</u>	<u>27.36</u>
<u>1226</u>	<u>3.31</u>	<u>7.99</u>	<u>546</u>	<u>14.9</u>	<u>2.71</u>	<u>-6.1</u>	<u>27.36</u>
<u>229</u>	<u>3.78</u>	<u>7.98</u>	<u>548</u>	<u>14.9</u>	<u>2.69</u>	<u>-5.9</u>	<u>27.36</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-15</u>	<u>6 x vva vial</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Gx/BTEX(8260)/EDC(8260)</u>
<u>DWP</u>	<u>2 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx w/sgc COLUMN/NWTPH-Dx</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>2 x vva vial</u>	<u>YES</u>	<u>Na2S2O3</u>	<u>EUROFINS</u>	<u>EDB(8011)</u>

COMMENTS: Depth Pump Set At 33.28 ft

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: MW-16  
 Well Diameter: 214 in.  
 Total Depth: 50.05 ft.  
 Depth to Water: 42.78 ft.  
7.27 xVF = \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4/29/19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 41.19 ft  
 Depth to Water: 42.78 ft  
 Hydrocarbon Thickness: 1.59 ft  
 Visual Confirmation/Description:  
Brown foam  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW-17  
 Well Diameter: 2.14 in.  
 Total Depth: 38.40 ft  
 Depth to Water: 24.75 ft  
13.65 xVF =          =          x3 case volume = Estimated Purge Volume:          gal

Date Monitored: 4-30-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:         

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump ✓  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump ✓  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 0920  
 Sample Time/Date: 1000 / 4-30-19  
 Approx. Flow Rate: 200 mlpm  
 Did well de-water? N If yes, Time:          Volume:          ltrs DTW @ Sampling: 04.90

Weather Conditions: Sunny  
 Water Color: Cloudy Odor: (Y) N / Slight  
 Sediment Description: Cloudy

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0938</u>	<u>3.6</u>	<u>6.68</u>	<u>520</u>	<u>18.4</u>	<u>1.3</u>	<u>140</u>	<u>2483</u>
<u>0941</u>	<u>4.2</u>	<u>6.72</u>	<u>527</u>	<u>18.5</u>	<u>1.4</u>	<u>146</u>	<u>2488</u>
<u>0944</u>	<u>4.8</u>	<u>6.78</u>	<u>533</u>	<u>18.5</u>	<u>1.4</u>	<u>150</u>	<u>2492</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>AW-17</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>2</u> x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: ~31.5ft.

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590 Job Number: 17156610  
 Site Address: 232 Woodin Avenue Event Date: 4/30/19 (inclusive)  
 City: Chelan, WA Sampler: AW

Well ID: MW-18 Date Monitored: 4-30-19  
 Well Diameter: 214 in.  
 Total Depth: 39.02 ft.  
 Depth to Water: 24.61 ft.  Check if water column is less than 0.50 ft.  
14.41 xVF      =      x3 case volume = Estimated Purge Volume:      gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:     

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump   
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump   
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 1010 Weather Conditions: Sunny  
 Sample Time/Date: 1050 / 4-30-19 Water Color: cloudy Odor: Y 10 /  
 Approx. Flow Rate: 200 mlpm Sediment Description: cloudy  
 Did well de-water? N If yes, Time:      Volume:      ltrs DTW @ Sampling: 24.77

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (mS / μmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1028	3.6	7.01	468	19.8	1.2	183	24.68
1031	4.2	7.04	475	19.9	1.3	190	24.71
1034	4.8	7.07	479	19.9	1.3	196	24.77

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-18</u>	<u>6</u> x vov vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>2</u> x vov vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: ~32.0ft.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW- P1  
 Well Diameter: (2) 4 in.  
 Total Depth: 40.04 ft.  
 Depth to Water: 29.72 ft.  
10.32 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4-30-19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: 5 (2400 hrs)  
 Depth to Product: 27.95 ft  
 Depth to Water: 29.72 ft  
 Hydrocarbon Thickness: 1.77 ft  
 Visual Confirmation/Description: brown oily  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x vva vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x vva vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - M / 0 - SPH

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: BW

Well ID: MW-21  
 Well Diameter: 214 in.  
 Total Depth: 39.93 ft.  
 Depth to Water: 29.22 ft.  
10.71 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4-30-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>27.52</u>	ft
Depth to Water:	<u>29.22</u>	ft
Hydrocarbon Thickness:	<u>1.70</u>	ft
Visual Confirmation/Description:	<u>Light oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter amber	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - SpH - No sample taken.

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW-22  
 Well Diameter: 21.4 in.  
 Total Depth: 41.15 ft.  
 Depth to Water: 26.21 ft.  
14.94 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4-30-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>26.19</u>	ft
Depth to Water:	<u>26.21</u>	ft
Hydrocarbon Thickness:	<u>0.02</u>	ft
Visual Confirmation/Description:	<u>Light oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	lbr
Amt Removed from Well:	_____	lbr
Water Removed:	_____	lbr
Product Transferred to:	_____	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity ( $\mu$ S / mS $\mu$ mhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - M/O - SPH

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW-23

Date Monitored: 4-30-19

Well Diameter: 214 in.

Total Depth: 38.20 ft.

Depth to Water: 30.50 ft.

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

1.70 xVF        =        x3 case volume = Estimated Purge Volume:        gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:       

**Purge Equipment:**

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump ✓  
 Other: \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump ✓  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 0650  
 Sample Time/Date: 0730 / 4-30-19  
 Approx. Flow Rate: 200 mlpm  
 Did well de-water? n If yes, Time: \_\_\_\_\_

Weather Conditions: Sunny  
 Water Color: Cloudy Odor: Y 10/  
 Sediment Description: Cloudy  
 Volume:        ltrs DTW @ Sampling: 30.65

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0708</u>	<u>8.6</u>	<u>7.27</u>	<u>279</u>	<u>16.3</u>	<u>1.3</u>	<u>213</u>	<u>30.56</u>
<u>0711</u>	<u>4.2</u>	<u>7.25</u>	<u>286</u>	<u>16.5</u>	<u>1.2</u>	<u>220</u>	<u>30.60</u>
<u>0714</u>	<u>4.8</u>	<u>7.22</u>	<u>291</u>	<u>16.5</u>	<u>1.2</u>	<u>222</u>	<u>30.65</u>

**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-23</u>	<u>6</u> x vov vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>2</u> x vov vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: ~34.5ft.

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW-25  
 Well Diameter: 2 1/4 in  
 Total Depth: 49.65 ft.  
 Depth to Water: 33.77 ft.  
15.88 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4-30-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>33.72</u>	ft
Depth to Water:	<u>33.77</u>	ft
Hydrocarbon Thickness:	<u>0.05</u>	ft
Visual Confirmation/Description:	<u>Light</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - M/O - SpH

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: HR

Well ID: MW-27  
 Well Diameter: (2) 1/4 in.  
 Total Depth: 40.04 ft.  
 Depth to Water: 32.44 ft.  
7.60 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4-30-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>27.64</u>	ft
Depth to Water:	<u>32.44</u>	ft
Hydrocarbon Thickness:	<u>4.80</u>	ft
Visual Confirmation/Description:	<u>Light oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ampers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - SpH - No Sample.

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW-28  
 Well Diameter: 2.74 in.  
 Total Depth: 38.30 ft.  
 Depth to Water: 24.60 ft.  
13.70 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4-30-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump   
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump   
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 0740  
 Sample Time/Date: 0820 / 4-30-19  
 Approx. Flow Rate: 200 mlpm  
 Did well de-water?  If yes, Time: \_\_\_\_\_

Weather Conditions: Sunny  
 Water Color: cloudy Odor: Y 100  
 Sediment Description: Cloudy  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: 24.74

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (mS/cm)	Temperature (°F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0758	3.6	6.77	669	15.6	1.1	253	24.66
0801	4.2	6.80	660	15.7	1.2	260	24.70
0804	4.8	6.84	658	15.7	1.2	261	24.74

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-28	6 x vov vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	2 x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	1 x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	1 x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	2 x vov vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: ~31.5 ft

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW-30  
 Well Diameter: 21.4 in.  
 Total Depth: 94.40 ft.  
 Depth to Water: 16.00 ft.  
18.40 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4/30/19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump   
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump   
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one) \_\_\_\_\_  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0500  
 Sample Time/Date: 0545 / 4/30/19  
 Approx. Flow Rate: 200 mlpm  
 Did well de-water? N If yes, Time: \_\_\_\_\_

Weather Conditions: Down  
 Water Color: clear Odor: YTD  
 Sediment Description: Clear  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: 76.18

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (°C / F)	D.O (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0518</u>	<u>3.6</u>	<u>7.50</u>	<u>319</u>	<u>11.3</u>	<u>1.2</u>	<u>255</u>	<u>76.09</u>
<u>0521</u>	<u>4.2</u>	<u>7.44</u>	<u>326</u>	<u>11.4</u>	<u>1.3</u>	<u>262</u>	<u>76.12</u>
<u>0524</u>	<u>4.8</u>	<u>7.41</u>	<u>331</u>	<u>11.4</u>	<u>1.3</u>	<u>270</u>	<u>76.18</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-30</u>	<u>6</u> x vov vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>2</u> x vov vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: ~85.0ft.

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: NW

Well ID: MW-31  
 Well Diameter: 2 1/4 in.  
 Total Depth: 92.32 ft.  
 Depth to Water: 74.58 ft.  
17.74 xVF =        =        x3 case volume = Estimated Purge Volume:        gal.

Date Monitored: 4-30-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW):       

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump   
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump   
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 0555 Weather Conditions: Sunny  
 Sample Time/Date: 0640 / 4-30-19 Water Color: Cloudy Odor: Y (N)  
 Approx. Flow Rate: 200 mlpm Sediment Description: Cloudy  
 Did well de-water? Y If yes, Time:        Volume:        ltrs DTW @ Sampling: 14.70

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0613</u>	<u>3.6</u>	<u>7.62</u>	<u>249</u>	<u>12.3</u>	<u>1.2</u>	<u>294</u>	<u>74.61</u>
<u>0616</u>	<u>4.2</u>	<u>7.58</u>	<u>256</u>	<u>12.4</u>	<u>1.3</u>	<u>240</u>	<u>74.66</u>
<u>0619</u>	<u>4.8</u>	<u>7.55</u>	<u>260</u>	<u>12.4</u>	<u>1.3</u>	<u>245</u>	<u>74.70</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-31</u>	<u>6</u> x vov vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>2</u> x vov vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: 83.5ft.

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW-36  
 Well Diameter: 214 in.  
 Total Depth: 49.48 ft.  
 Depth to Water: 33.10 ft.  
16.38 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4-30-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>32.77</u>	ft
Depth to Water:	<u>33.10</u>	ft
Hydrocarbon Thickness:	<u>0.33</u>	ft
Visual Confirmation/Description:	<u>Light oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - m/o - spH

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29/19 - 4/30/19 (inclusive)  
 Sampler: GM

Well ID: MW-37  
 Well Diameter: 2.14 in.  
 Total Depth: 93.01 ft.  
 Depth to Water: 76.89 ft.

Date Monitored: 4/29/19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

16.12 xVF      =      x3 case volume = Estimated Purge Volume:      gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW):     

### Purge Equipment:

Disposable Bailer       
 Stainless Steel Bailer       
 Stack Pump       
 Peristaltic Pump       
 QED Bladder Pump X  
 Other:     

### Sampling Equipment:

Disposable Bailer       
 Pressure Bailer       
 Metal Filters       
 Peristaltic Pump       
 QED Bladder Pump X  
 Other:     

Time Started:	<u>    </u>	(2400 hrs)
Time Completed:	<u>    </u>	(2400 hrs)
Depth to Product:	<u>    </u>	ft
Depth to Water:	<u>    </u>	ft
Hydrocarbon Thickness:	<u>    </u>	ft
Visual Confirmation/Description:	<u>    </u>	
Skimmer / Absorbant Sock (circle one)	<u>    </u>	
Amt Removed from Skimmer:	<u>    </u>	ltr
Amt Removed from Well:	<u>    </u>	ltr
Water Removed:	<u>    </u>	ltr
Product Transferred to:	<u>    </u>	

Start Time (purge): 0455  
 Sample Time/Date: 0535/4/30/19  
 Approx. Flow Rate: ~.157 mlpm  
 Did well de-water? No If yes, Time:     

Weather Conditions: COLD  
 Water Color: CLEAR Odor: Y/N  
 Sediment Description: NONE  
 Volume:      ltrs DTW @ Sampling: 76.93

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS µmhos/cm	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0513</u>	<u>2.83</u>	<u>7.46</u>	<u>421.4</u>	<u>12.5</u>	<u>2.42</u>	<u>151.9</u>	<u>76.93</u>
<u>0516</u>	<u>3.31</u>	<u>7.44</u>	<u>420.9</u>	<u>12.6</u>	<u>2.39</u>	<u>152.6</u>	<u>76.93</u>
<u>0519</u>	<u>3.78</u>	<u>7.43</u>	<u>420.1</u>	<u>12.6</u>	<u>2.34</u>	<u>153.1</u>	<u>76.93</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-37</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>2</u> x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: < 84.95 ft.



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: [Signature]

Well ID: MW-38  
 Well Diameter: 214 in.  
 Total Depth: 46.28 ft.  
 Depth to Water: 45.98 ft.  
0.30 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4-30-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date:    /   /     
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: [Signature] - Insufficient H<sub>2</sub>O No sample

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW-39  
 Well Diameter: (2) 4 in.  
 Total Depth: 45.45 ft.  
 Depth to Water: DRY ft.

Date Monitored: 4-30-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O  
DRY @ 42.40 ft (Sump)

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW-40  
 Well Diameter: 214 in.  
 Total Depth: 43.47 ft.  
 Depth to Water: DRY ft.

Date Monitored: 4-30-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - DRY @ 43.47 ft

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: MW-41  
 Well Diameter: 214 in.  
 Total Depth: 35.58 ft.  
 Depth to Water: 23.32 ft.  
12.26 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4/29/19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailor \_\_\_\_\_  
 Stainless Steel Bailor \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump X  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailor \_\_\_\_\_  
 Pressure Bailor \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump X  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>Ø</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 1320  
 Sample Time/Date: 1405 14/30/19  
 Approx. Flow Rate: ~.157 mlpm  
 Did well de-water? NO If yes, Time: \_\_\_\_\_

Weather Conditions: SUNNY  
 Water Color: CLEAR Odor: YTN  
 Sediment Description: NDMP  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS umhos/cm	Temperature (C) (F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1339</u>	<u>2.83</u>	<u>7.65</u>	<u>779</u>	<u>16.2</u>	<u>5.21</u>	<u>107.9</u>	
<u>1341</u>	<u>3.31</u>	<u>7.64</u>	<u>777</u>	<u>16.1</u>	<u>5.19</u>	<u>108.7</u>	
<u>1345</u>	<u>3.78</u>	<u>7.62</u>	<u>776</u>	<u>16.1</u>	<u>5.14</u>	<u>109.5</u>	

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-41</u>	<u>6</u> x vov vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>2</u> x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>2</u> x vov vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: ~29.45ft

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
Site Address: 232 Woodin Avenue  
City: Chelan, WA

Job Number: 17156610  
Event Date: 4/30/19 (inclusive)  
Sampler: AW

Well ID: MW-42  
Well Diameter: (2) 1.4 in.  
Total Depth: 33.02 ft.  
Depth to Water: 25.83 ft.  
7.19 xVF =        =        x3 case volume = Estimated Purge Volume:        gal.

Date Monitored: 4-30-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:       

**Purge Equipment:**  
Disposable Bailer \_\_\_\_\_  
Stainless Steel Bailer \_\_\_\_\_  
Stack Pump \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump   
Other: \_\_\_\_\_

**Sampling Equipment:**  
Disposable Bailer \_\_\_\_\_  
Pressure Bailer \_\_\_\_\_  
Metal Filters \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump   
Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 1105  
Sample Time/Date: 1145 / 4-30-19  
Approx. Flow Rate: 200 mlpm  
Did well de-water?  If yes, Time:        Volume:        ltrs DTW @ Sampling: 25.99  
Weather Conditions: Sunny  
Water Color: Cloudy Odor: Y 10  
Sediment Description: Cloudy

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (mS/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1123</u>	<u>3.6</u>	<u>7.02</u>	<u>314</u>	<u>19.3</u>	<u>1.2</u>	<u>180</u>	<u>25.90</u>
<u>1126</u>	<u>4.2</u>	<u>7.09</u>	<u>320</u>	<u>19.4</u>	<u>1.3</u>	<u>185</u>	<u>25.94</u>
<u>1129</u>	<u>4.8</u>	<u>7.13</u>	<u>327</u>	<u>19.4</u>	<u>1.3</u>	<u>188</u>	<u>25.99</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-42</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>      </u> x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>      </u> x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>2</u> x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: ~29.5 ft

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: MW-43  
 Well Diameter: 2.4 in.  
 Total Depth: 33.36 ft.  
 Depth to Water: 24.01 ft.

Date Monitored: 4/29/19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.  
9.35 xVF      =      x3 case volume = Estimated Purge Volume:      gal

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:     

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump x  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump x  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>    </u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 0745  
 Sample Time/Date: 0830/4/30/19  
 Approx. Flow Rate: ~157 mlpm  
 Did well de-water? No If yes, Time: \_\_\_\_\_

Weather Conditions: SUNNY  
 Water Color: CLEAR Odor: YTN  
 Sediment Description: GL SILT  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: 24.06

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS (µmhos/cm)	Temperature (C) (F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0803</u>	<u>2.83</u>	<u>7.81</u>	<u>1667</u>	<u>15.0</u>	<u>4.28</u>	<u>138.6</u>	<u>24.06</u>
<u>0806</u>	<u>3.31</u>	<u>7.80</u>	<u>1665</u>	<u>15.1</u>	<u>4.22</u>	<u>139.2</u>	<u>24.06</u>
<u>0809</u>	<u>3.78</u>	<u>7.78</u>	<u>1664</u>	<u>15.1</u>	<u>4.21</u>	<u>139.8</u>	<u>24.06</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Gx/BTEX(8260)/EDC(8260)</u>
	<u>2 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx w/sgc COLUMN/NWTPH-Dx</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>2x voa vial</u>	<u>YES</u>	<u>Na2S2O3</u>	<u>EUROFINS</u>	<u>EDB(8011)</u>

COMMENTS: Depth Pump Set At: a 28.68ft.





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW-44  
 Well Diameter: 2.4 in.  
 Total Depth: 39.55 ft.  
 Depth to Water: 26.99 ft.  
12.56 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4-30-19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 26.07 ft  
 Depth to Water: 26.99 ft  
 Hydrocarbon Thickness: 0.92 ft  
 Visual Confirmation/Description:  
Light oily  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - Sph - No sample taken.

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/30/19 (inclusive)  
 Sampler: AW

Well ID: MW-45  
 Well Diameter: 214 in.  
 Total Depth: 36.74 ft.  
 Depth to Water: 26.00 ft.  
10.74 xVF =      =      x3 case volume = Estimated Purge Volume:      gal.

Date Monitored: 4-30-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:     

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump ✓  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump ✓  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 0830 Weather Conditions: Sunny  
 Sample Time/Date: 0910 / 4-30-19 Water Color: Cloudy Odor: Y 10  
 Approx. Flow Rate: 200 mlpm Sediment Description: Cloudy  
 Did well de-water? N If yes, Time:      Volume:      ltrs DTW @ Sampling: 26.14

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0848</u>	<u>3.6</u>	<u>7.23</u>	<u>326</u>	<u>16.9</u>	<u>1.3</u>	<u>214</u>	<u>26.06</u>
<u>0851</u>	<u>4.2</u>	<u>7.20</u>	<u>320</u>	<u>17.0</u>	<u>1.4</u>	<u>206</u>	<u>26.11</u>
<u>0854</u>	<u>4.8</u>	<u>7.16</u>	<u>313</u>	<u>17.0</u>	<u>1.4</u>	<u>202</u>	<u>26.14</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-45</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	<u>1</u> x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	<u>2</u> x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: ~31.5ft

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: MW-46  
 Well Diameter: (2) 4 in.  
 Total Depth: 39.07 ft.  
 Depth to Water: 27.78 ft.  
11.24 xVF      =      x3 case volume = Estimated Purge Volume:      gal.

Date Monitored: 4/29/19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:     

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump X  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump X  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness:      ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0955  
 Sample Time/Date: 1040 / 4/30/19  
 Approx. Flow Rate: ~1.57 mlpm  
 Did well de-water? NO If yes, Time: \_\_\_\_\_

Weather Conditions: SUNNY  
 Water Color: Color 20 Odor: (Y) N MODERATE  
 Sediment Description: SILT  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: 27.82

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/mS / umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1013</u>	<u>2.83</u>	<u>7.40</u>	<u>954</u>	<u>15.7</u>	<u>2.59</u>	<u>-21.8</u>	<u>27.82</u>
<u>1016</u>	<u>3.31</u>	<u>7.37</u>	<u>952</u>	<u>15.7</u>	<u>2.68</u>	<u>-21.2</u>	<u>27.82</u>
<u>1019</u>	<u>3.78</u>	<u>7.34</u>	<u>948</u>	<u>15.8</u>	<u>2.61</u>	<u>-20.7</u>	<u>27.82</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-46</u>	<u>6 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Gx/BTEX(8260)/EDC(8260)</u>
	<u>2 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx w/sgc COLUMN/NWTPH-Dx</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>2 x vov vial</u>	<u>YES</u>	<u>Na2S2O3</u>	<u>EUROFINS</u>	<u>EDB(8011)</u>

COMMENTS: Depth Pump Set At: ~33.40

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: RW-1  
 Well Diameter: 2 1/4 in.  
 Total Depth: 49.94 ft.  
 Depth to Water: 37.03 ft.  
12.91 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal

Date Monitored: 4/29/19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump X  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump X  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 1100  
 Sample Time/Date: 1145 4/30/19  
 Approx. Flow Rate: ~1.57 mlpm  
 Did well de-water? NO If yes, Time: \_\_\_\_\_

Weather Conditions: SUNNY  
 Water Color: CLOUDY Odor: (Y) N MODERATE  
 Sediment Description: SL SILT  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: 37.07

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1118</u>	<u>2.83</u>	<u>7.52</u>	<u>1534</u>	<u>16.4</u>	<u>2.63</u>	<u>-22.5</u>	<u>37.07</u>
<u>1121</u>	<u>3.31</u>	<u>7.50</u>	<u>1571</u>	<u>16.4</u>	<u>2.59</u>	<u>-21.9</u>	<u>37.07</u>
<u>1124</u>	<u>3.78</u>	<u>7.48</u>	<u>1529</u>	<u>16.4</u>	<u>2.55</u>	<u>-21.2</u>	<u>37.07</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>RW-1</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Gx/BTEX(8260)/EDC(8260)</u>
	<u>2 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx w/sgc COLUMN/NWTPH-Dx</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>2 x voa vial</u>	<u>YES</u>	<u>Na2S2O3</u>	<u>EUROFINS</u>	<u>EDB(8011)</u>

COMMENTS: Depth Pump Set At: ~43.48 ft

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: ROW-2  
 Well Diameter: 214 in.  
 Total Depth: 49.92 ft.  
 Depth to Water: 41.26 ft.  
8.66 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4/29/19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>40.41</u>	ft
Depth to Water:	<u>41.26</u>	ft
Hydrocarbon Thickness:	<u>0.85</u>	ft
Visual Confirmation/Description:	<u>Brown / oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: NA SDH

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 4/29-30/19 (inclusive)  
 Sampler: GM

Well ID: RW-3  
 Well Diameter: 2 1/4 in.  
 Total Depth: 39.84 ft.  
 Depth to Water: 23.39 ft.  
16.45 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4/29/19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump X  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump V  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>FD</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 0850  
 Sample Time/Date: 0935/4/30/19  
 Approx. Flow Rate: ~157 mlpm  
 Did well de-water? NO If yes, Time: \_\_\_\_\_

Weather Conditions: SUNNY  
 Water Color: CLEAR Odor: DN SLIGHT  
 Sediment Description: SLT  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: 23.43

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0903</u>	<u>2.83</u>	<u>7.42</u>	<u>997</u>	<u>15.3</u>	<u>3.32</u>	<u>-25.6</u>	<u>23.42</u>
<u>0911</u>	<u>3.31</u>	<u>7.40</u>	<u>994</u>	<u>15.4</u>	<u>3.27</u>	<u>-24.9</u>	<u>23.43</u>
<u>0914</u>	<u>3.78</u>	<u>7.37</u>	<u>992</u>	<u>15.3</u>	<u>3.21</u>	<u>-24.3</u>	<u>23.43</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>RW-3</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Gx/BTEX(8260)/EDC(8260)</u>
	<u>2 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx w/sgc COLUMN/NWTPH-Dx</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6010B)</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>EUROFINS</u>	<u>TOTAL LEAD(6010B)</u>
	<u>2 x voa vial</u>	<u>YES</u>	<u>Na2S2O3</u>	<u>EUROFINS</u>	<u>EDB(8011)</u>

COMMENTS: Depth Pump Set At: ~31.6 ft.

# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories**

Acct. # \_\_\_\_\_

Group # \_\_\_\_\_

Sample # \_\_\_\_\_

For Eurofins Lancaster Laboratories use only  
Instructions on reverse side correspond with circled numbers

1 Client Information			4 Matrix			5 Analyses Requested										6 Remarks								
Facility # <b>SS#9-6590-OML G-R#17156610</b> WBS Site Address <b>232 East Woodin Avenue, CHELAN, WA</b> Chevron PM <b>EH</b> LEIDOSRS Lead Consultant <b>Russell Shropshire</b> Consultant Office <b>Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568</b> Consultant Project Mgr. <b>Deanna L. Harding, (deanna@grinc.com)</b> Consultant Phone # <b>(925) 551-7444 x180</b> Sampler <b>Alu / gm</b>			Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Soil <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>			Total Number of Containers _____ BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan _____ Oxygenates <b>EDC (8260)</b> NWTPH-Gx _____ NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <b>EDC</b> <b>TRIAL LEAD (CUP)</b> <b>EDC (SOL)</b>										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits								
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total	BTEX	8260	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method	6 Remarks		
Date	Time																							
CA	190430			X			X		12	X			X		X								PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUMN CLEANUP, AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED.	
MW-17	190430	1000		X			X		12	X		X	X	X	X									
MW-18	190430	1050		X			X		12	X		X	X	X	X									
MW-23	190430	0730		X			X		12	X		X	X	X	X									
MW-28	190430	0920		X			X		12	X		X	X	X	X									
MW-30	190430	0545		X			X		12	X		X	X	X	X									
MW-31	190430	0640		X			X		12	X		X	X	X	X									
MW-45	190430	0910		X			X		12	X		X	X	X	X									
MW-42	190430	1145		X			X		12	X		X	X	X	X									
MW-5	190430	0732		X			X		12	X		X	X	X	X									
MW-8	190430	0777		X			X		12	X		X	X	X	X									
MW-15	190430	1205		X			X		12	X		X	X	X	X									
MW-37	190430	0535		X			X		12	X		X	X	X	X									
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day <b>EDF/EDD</b> 72 hour 48 hour 24 hour			Relinquished by _____ Date <b>190430</b> Time _____ Received by _____ Date _____ Time _____																					
8 Data Package (circle if required) Type I - Full Type VI (Raw Data)			EDD (circle if required) CVX-RTBU-FI_05 (default) Other: _____			Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____			Received by _____ Date _____ Time _____			Temperature Upon Receipt _____ °C Custody Seals Intact? Yes No												



# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories**

Acct. # \_\_\_\_\_

Group # \_\_\_\_\_

Sample # \_\_\_\_\_

For Eurofins Lancaster Laboratories use only  
Instructions on reverse side correspond with circled numbers

<b>1 Client Information</b>			<b>4 Matrix</b>			<b>5 Analyses Requested</b>									
Facility # <b>SS#9-6590-OML G-R#17156610</b> WBS			Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>	Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>	Total Number of Containers BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan	Oxygenates <b>EDC (8260)</b> NWTPH-GX	NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/>	WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/>	Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input checked="" type="checkbox"/> Method <b>GC/MS</b>	<b>TOTAL LEAD (GC/MS)</b> <b>EDB (GC/MS)</b>	SCR #: _____	<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits			
Site Address <b>232 East Woodin Avenue, CHELAN, WA</b>															
Chevron EM <b>EH</b> LEIDOSRS Lead Consultant <b>Russell Shropshire</b>															
Consultant/Office <b>Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568</b>															
Consultant Project Mgr. <b>Deanna L. Harding, (deanna@grinc.com)</b>															
Consultant Phone # <b>(925) 551-7444 x180</b>															
Sampler <b>AV / GM</b>															

2 Sample Identification	3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	MTBE	8021	8260	Naphth	Oxygenates	NWTPH-GX	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method	
	Date	Time																						
MW-43	10/4/30	0930	X			X		10	X					X	X	X	X			X	X	X	X	X
MW-46	10/4/30	1040	X			X		10	X					X	X	X	X			X	X	X	X	X
RW-1	10/4/30	1145	X			X		10	X					X	X	X	X			X	X	X	X	X
RW-3	10/4/30	0935	X			X		10	X					X	X	X	X			X	X	X	X	X
TWP	10/4/30	1145	X			X		10	X					X	X	X	X			X	X	X	X	X
AW-41	10/4/30	1145	X			X		10	X					X	X	X	X			X	X	X	X	X

**6 Remarks**

PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUMN CLEANUP, AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED.

<b>7 Turnaround Time Requested (TAT) (please circle)</b>			Relinquished by _____		Date <b>10/4/30</b>	Time <b>1:30</b>	Received by _____		Date _____	Time _____	<b>9</b>
Standard <b>5 day</b>	4 day	<b>EDF/EDD</b>	Relinquished by _____		Date _____	Time _____	Received by _____		Date _____	Time _____	
72 hour	48 hour	24 hour	Relinquished by Commercial Carrier:		Temperature Upon Receipt _____ °C		Custody Seals Intact?		Yes	No	
<b>8 Data Package</b> (circle if required)			Type I - Full		Type VI (Raw Data)		EDD (circle if required) CVX-RTBU-FI_05 (default) Other: _____		UPS _____ FedEx _____ Other _____		





# GETTLER-RYAN INC.



## TRANSMITTAL

June 18, 2019  
G-R #17156610

TO: Mr. Russell Shropshire  
Leidos, Inc.  
18939 120<sup>th</sup> Avenue NE, Suite 112  
Bothell, Washington 98011

FROM: Deanna L. Harding  
Project Manager  
Gettler-Ryan Inc.  
6805 Sierra Court, Suite G  
Dublin, California 94568

RE: **Chevron Service Station**  
**#9-6590**  
**232 Woodin Avenue**  
**Chelan, Washington**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Second Quarter Event of June 10, 2019

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/9-6590



# GETTLER - RYAN INC.

## CHEVRON - SITE CHECK LIST

Facility#: <b>Chevron #9-6590</b>	Date: <b>6/10/19</b>
Address: <b>232 Woodin Avenue</b>	
City/St.: <b>Chelan, WA</b>	
Status of Site: <b>ACTIVE CHEVRON</b>	

### DRUMS:

Please list below ALL DRUMS on site:  
(i.e., drum description, condition, labeling, contents and location of drums)



#	Description	Condition	Labeling	Contents/Capacity	Location

### WELLS:

Please check the condition of ALL WELLS on site:  
(i.e., gaskets, bolts, replaced well plug and/or well lock, well box condition and etc.)

Well ID	Gaskets (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Replaced Plug Y/N	Replaced Lock Y/N	Well Box Manufacturer/Size/# of Bolts	Other
MW-2	OK	OK	N	N	OPW/12/Ø	
MW-5	↓	↓	↓	↓	morris/8/2	
MW-6	↓	↓	↓	↓	↓	3
MW-7	↓	↓	↓	↓	↓	2
MW-8	↓	↓	↓	↓	↓	2
MW-9	↓	↓	↓	↓	↓	2
MW-10	↓	↓	↓	↓	↓	3
MW-12	↓	↓	↓	↓	↓	
MW-15	↓	↓	↓	↓	↓	
MW-16	↓	↓	↓	↓	↓	
MW-17	↓	↓	↓	↓	↓	
MW-18	↓	↓	↓	↓	↓	
MW-19	↓	↓	↓	↓	↓	
MW-21	↓	↓	↓	↓	↓	
MW-22	↓	↓	↓	↓	↓	
MW-23	↓	↓	↓	↓	↓	
MW-25	↓	↓	↓	↓	↓	12
MW-27	↓	↓	↓	↓	↓	8
MW-28	↓	↓	↓	↓	↓	
MW-30	↓	↓	↓	↓	↓	
MW-31	↓	↓	↓	↓	↓	
MW-36	↓	↓	↓	↓	↓	
MW-37	↓	↓	↓	↓	↓	
MW-38	↓	↓	↓	↓	↓	
MW-39	↓	↓	↓	↓	↓	

Additional Comments/Observations: \_\_\_\_\_

Was the fence for the compound locked? Y/N \_\_\_\_\_

Was the drum storage locker locked and secure? Y/N \_\_\_\_\_

Is the signage on the fence present and legible? Y/N \_\_\_\_\_



# GETTLER - RYAN INC.

## CHEVRON - SITE CHECK LIST

Facility#: Chevron #9-6590

Date: 6/10/19

Address: 232 Woodin Avenue

City/St.: Chelan, WA

Status of Site: Active Chevron

### WELLS:

Please check the condition of ALL WELLS on site:  
(i.e., gaskets, bolts, replaced well plug, well lock, well box condition and etc.)

--- Continued ---

Well ID	Gaskets (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Replaced Plug Y/N	Replaced Lock Y/N	Well Box Manufacturer/Size/# of Bolts	Other
MW-40	OK	OK	N	N	Watts 1 1/2	
MW-41	↓	↓	↓	↓	Watts 1 1/2	
MW-42						
MW-43						
MW-44						
MW-45						
MW-46						
RW-1						
RW-2						
RW-3						

Additional Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## **STANDARD OPERATING PROCEDURE, LOW-FLOW PURGING AND SAMPLING**

Gettler-Ryan Inc. field personnel adhere to the following Standard Operating Procedure (SOP) for the collection and handling of representative groundwater samples using the Low-Flow (Minimal-Drawdown) Purging technique. This SOP incorporates purging and sampling methods discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, April 1996 by Puls, R.W. and M.J. Barcelona - "*Low-Flow (Minimal-Drawdown) Ground-Water Sampling Procedures.*"

A QED Well Wizard™ (or equivalent) bladder pump or Peristaltic Pump will be used to purge and sample selected wells as outlined in the scope-of-work. An in-line flow cell or other multi-parameter meter is used to collect water quality indicating parameters during purging.

### ***Initial Pump Discharge Test Procedures***

The Static Water Level (SWL) is measured in all wells at the site prior to the installation of the pump or tubing and initiation of the test procedures in any well. In addition, the presence or absence of separate-phase hydrocarbons (SPH) is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot. The SWL measurement and SPH thickness, if any, will be recorded on the field data sheet. Total well depths are measured annually.

The bladder pump or suction inlet tubing of the peristaltic pump is then positioned with its inlet located within the screened interval of the well. The in-line flow cell is then connected to the discharge tubing. After pump installation, the SWL is allowed to recover to its original level. The pump is then started at a discharge rate between 100 ml to 300 ml per minute with the in-line flow cell connected. The water level is monitored continuously for any change from the original measurement and the discharge rate is adjusted until an optimum discharge rate (ODR) is determined. The goal for the ODR is to produce a stable drawdown of less than 0.1 meter as allowed by site conditions; however the total drawdown from the initial SWL should not exceed 25% of the distance between pump inlet location and the top of the well screen. Once achieved, the ODR will be confirmed by volumetric discharge measurement and recorded on the field data sheet.

### ***Purging and Water Quality Parameter Measurement***

When the ODR has been determined and the SWL drawdown has been established within the acceptable range, and a minimum of one pump system volume (bladder volume and/or discharge tubing volume) has been purged, field measurements for temperature (T), pH, conductivity (Ec), and if required, oxygen reduction potential (ORP) and dissolved oxygen (DO) will be collected and documented on the field data sheet. Measurements should be taken every three to five minutes until parameters stabilize for three consecutive readings. The minimum parameter subset of T ( $\pm 10\%$ ), pH ( $\pm 0.1$  unit), and Ec ( $\pm 10$  uS) are required to stabilize. Additional parameters that may be required are DO ( $\pm 0.2$  mg/l) and ORP ( $\pm 20$  mV).

## *Sample Collection*

When water quality parameters have stabilized, and the SWL drawdown remains established within the acceptable range, groundwater sample collection may begin. If used, the in-line flow cell and its tubing are disconnected from the discharge tubing prior to sample collection. Water samples are collected from the discharge tubing into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-2  
 Well Diameter: 2 1/4 in.  
 Total Depth: 23.03 ft.  
 Depth to Water: 22.31 ft.  
0.72 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less then 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	_____	ft
Depth to Water:	_____	ft
Hydrocarbon Thickness:	_____	ft
Visual Confirmation/Description:	_____	
Skimmer / Absorbant Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature ( C / F )	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-5  
 Well Diameter: 2 1/4 in.  
 Total Depth: 34.47 ft.  
 Depth to Water: 28.19 ft.  
6.28 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: *m/o*

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6-10-19 (inclusive)  
 Sampler: kw

Well ID: MW-6  
 Well Diameter: 214 in.  
 Total Depth: 35.85 ft.  
 Depth to Water: 29.20 ft.  
6.65 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: n/d

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-7  
 Well Diameter: (2) 4 in.  
 Total Depth: 34.72 ft.  
 Depth to Water: 26.91 ft.  
7.81 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6/10/19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>26.75</u>	ft
Depth to Water:	<u>26.91</u>	ft
Hydrocarbon Thickness:	<u>0.16</u>	ft
Visual Confirmation/Description:	<u>Light oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O SPM

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6-10-19 (inclusive)  
 Sampler: BW

Well ID: MW-8  
 Well Diameter: (2) 4 in.  
 Total Depth: 34.70 ft.  
 Depth to Water: 25.11 ft.  
9.59 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - m/b

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-9  
 Well Diameter: 2 1/4 in.  
 Total Depth: 4048 ft.  
 Depth to Water: 37.06 ft.  
3.42 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>35.88</u>	ft
Depth to Water:	<u>37.06</u>	ft
Hydrocarbon Thickness:	<u>1.18</u>	ft
Visual Confirmation/Description:	<u>Light brown</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity ( $\mu$ S / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O SpH

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6-10-19 (inclusive)  
 Sampler: AW

Well ID: MW-10  
 Well Diameter: 214 in.  
 Total Depth: 37.88 ft.  
 Depth to Water: 30.12 ft.  
7.76 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less then 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 28.56 ft  
 Depth to Water: 30.12 ft  
 Hydrocarbon Thickness: 1.56 ft  
 Visual Confirmation/Description: Light oily  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - SpH - M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AU

Well ID: MW-12  
 Well Diameter: 2.4 in.  
 Total Depth: 37.00 ft.  
 Depth to Water: 27.80 ft.  
9.20 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less then 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 24.93 ft  
 Depth to Water: 27.80 ft  
 Hydrocarbon Thickness: 2.87 ft  
 Visual Confirmation/Description:  
Light oily  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature ( C / F )	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - m/o - sph

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: Aw

Well ID: MW-15  
 Well Diameter: 2 1/4 in.  
 Total Depth: 39.28 ft.  
 Depth to Water: 28.02 ft.  
11.26 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - m/b

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AL

Well ID: MW-16  
 Well Diameter: (2) 4 in.  
 Total Depth: 50.05 ft.  
 Depth to Water: 43.80 ft.  
6.25 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>42.03</u>	ft
Depth to Water:	<u>43.80</u>	ft
Hydrocarbon Thickness:	<u>1.77</u>	ft
Visual Confirmation/Description:	<u>dry</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature ( C / F )	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: m/s -spt

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: BLW

Well ID: MW-17  
 Well Diameter: 214 in.  
 Total Depth: 38.40 ft.  
 Depth to Water: 24.90 ft.  
13.50 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-18  
 Well Diameter: 21.4 in.  
 Total Depth: 39.02 ft.  
 Depth to Water: 25.51 ft.  
13.51 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature ( C / F )	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - m/o

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: FW

Well ID: MW-19  
 Well Diameter: 2 1/4 in.  
 Total Depth: 40.04 ft.  
 Depth to Water: 28.95 ft.  
11.09 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>27.40</u>	ft
Depth to Water:	<u>28.95</u>	ft
Hydrocarbon Thickness:	<u>1.55</u>	ft
Visual Confirmation/Description:	<u>Light oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - spH - m/c

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: ALW

Well ID: MW-21  
 Well Diameter: 21.4 in.  
 Total Depth: 39.43 ft.  
 Depth to Water: 34.80 ft.  
5.13 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 26.10 ft  
 Depth to Water: 34.80 ft  
 Hydrocarbon Thickness: 8.70 ft  
 Visual Confirmation/Description: Light oily  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voc vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voc vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: m/o split

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: du

Well ID: MW-22  
 Well Diameter: 2.14 in.  
 Total Depth: 41.15 ft.  
 Depth to Water: 25.99 ft.  
15.16 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less then 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature ( C / F )	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: MFO

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: RW

Well ID: MW-23  
 Well Diameter: 3.4 in.  
 Total Depth: 38.20 ft.  
 Depth to Water: 27.74 ft.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

10.40 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: MFO

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: Bh

Well ID: MW-25  
 Well Diameter: 21(4) in.  
 Total Depth: 49.65 ft.  
 Depth to Water: 32.90 ft.  
16.75 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less then 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 32.83 ft  
 Depth to Water: 32.90 ft  
 Hydrocarbon Thickness: 0.07 ft  
 Visual Confirmation/Description: Light oily  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature ( C / F )	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: m/c - spH

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-27  
 Well Diameter: 2 1/4 in.  
 Total Depth: 40.04 ft.  
 Depth to Water: 33.00 ft.  
7.04 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 27.90 ft  
 Depth to Water: 33.00 ft  
 Hydrocarbon Thickness: 5.10 ft  
 Visual Confirmation/Description: Light pink  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O - Spf

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-28  
 Well Diameter: 214 in.  
 Total Depth: 38.30 ft.  
 Depth to Water: 25.16 ft.  
13.14 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-30  
 Well Diameter: 21.4 in.  
 Total Depth: 94.40 ft.  
 Depth to Water: 73.80 ft.  
20.60 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-31  
 Well Diameter: 21.4 in.  
 Total Depth: 92.32 ft.  
 Depth to Water: 72.29 ft.

Date Monitored: 6-10-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

20.03 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature ( C / F )	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x vva vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x vva vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: 11/0

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: GW

Well ID: MW-36  
 Well Diameter: 2 1/4 in.  
 Total Depth: 49.48 ft.  
 Depth to Water: 33.44 ft.

Date Monitored: 6-10-19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water 16.04 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>33.18</u>	ft
Depth to Water:	<u>33.44</u>	ft
Hydrocarbon Thickness:	<u>0.26</u>	ft
Visual Confirmation/Description:	<u>Light oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity ( $\mu$ S / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: - m/s - split

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: BLW

Well ID: MW-37  
 Well Diameter: 2 1/4 in.  
 Total Depth: 93.01 ft.  
 Depth to Water: 74.79 ft.

Date Monitored: 6-10-19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

19.22 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: Aw

Well ID: MW-38  
 Well Diameter: 21.4 in.  
 Total Depth: 46.28 ft.  
 Depth to Water: 45.98 ft.  
0.30 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: RH

Well ID: MW-39  
 Well Diameter: 2 1/4 in.  
 Total Depth: 45.47 ft.  
 Depth to Water: DR ft.

Date Monitored: 6-10-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: 11/0 DRY

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-40  
 Well Diameter: 6/4 in.  
 Total Depth: 4347 ft.  
 Depth to Water: 42.20 ft.  
1.27 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: BL

Well ID: MW-41  
 Well Diameter: 27.4 in.  
 Total Depth: 35.58 ft.  
 Depth to Water: 24.12 ft.  
11.46 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	_____	ft
Depth to Water:	_____	ft
Hydrocarbon Thickness:	_____	ft
Visual Confirmation/Description:	_____	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-42  
 Well Diameter: 214 in.  
 Total Depth: 33.02 ft.  
 Depth to Water: 26.14 ft.  
6.88 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-43  
 Well Diameter: (2) 4 in.  
 Total Depth: 33.36 ft.  
 Depth to Water: 24.61 ft.  
8.75 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6/10/19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: DW

Well ID: MW-44  
 Well Diameter: (2) 4 in.  
 Total Depth: 39.55 ft.  
 Depth to Water: 27.14 ft.  
12.41 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 26.29 ft  
 Depth to Water: 27.14 ft  
 Hydrocarbon Thickness: 0.85 ft  
 Visual Confirmation/Description: Light oily  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O - split

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: JW

Well ID: MW-45  
 Well Diameter: 21.4 in.  
 Total Depth: 36.74 ft.  
 Depth to Water: 26.40 ft.  
10.34 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: MW-46  
 Well Diameter: 214 in.  
 Total Depth: 39.02 ft.  
 Depth to Water: 28.34 ft.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less then 0.50 ft.

10.68 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	_____	ft
Depth to Water:	_____	ft
Hydrocarbon Thickness:	_____	ft
Visual Confirmation/Description:	_____	
Skimmer / Absorbant Sock (circle one)	_____	
Amt Removed from Skimmer:	_____	ltr
Amt Removed from Well:	_____	ltr
Water Removed:	_____	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: ~~100~~ RW-1  
 Well Diameter: 2 1/4 in.  
 Total Depth: 49.94 ft.  
 Depth to Water: 37.38 ft.  
12.56 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: 14/0

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: AW

Well ID: ~~RW-1~~ RW-2  
 Well Diameter: 2 1/4 in.  
 Total Depth: 49.92 ft.  
 Depth to Water: 42.00 ft.  
7.92 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>40.85</u>	ft
Depth to Water:	<u>42.00</u>	ft
Hydrocarbon Thickness:	<u>1.15</u>	ft
Visual Confirmation/Description:	<u>Light oily</u>	
Skimmer / Absorbent Sock (circle one)	_____	
Amt Removed from Skimmer:	<u>-</u>	ltr
Amt Removed from Well:	<u>-</u>	ltr
Water Removed:	<u>-</u>	ltr
Product Transferred to:	_____	

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: /  
 Approx. Flow Rate: \_\_\_\_\_ mlpm  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: ~~M/O~~ SPH

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590  
 Site Address: 232 Woodin Avenue  
 City: Chelan, WA

Job Number: 17156610  
 Event Date: 6/10/19 (inclusive)  
 Sampler: HW

Well ID: RW-3  
 Well Diameter: 2 1/4 in.  
 Total Depth: 39.84 ft.  
 Depth to Water: 27.99 ft.  
11.85 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 6-10-19

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ mlpm Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ ltrs DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)/EDC(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc COLUMN/NWTPH-Dx
	x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	DISSOLVED LEAD(6010B)
	x 250ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x 500ml poly	YES	HNO3	EUROFINS	TOTAL LEAD(6010B)
	x voa vial	YES	Na2S2O3	EUROFINS	EDB(8011)

COMMENTS: Depth Pump Set At: M/10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_