

December 17, 2010 Project 101.00433.00001

Mr. Larry Smith Olympic Water & Sewer, Inc. 70 Breaker Lane Port Ludlow, Washington 98635

Re: Site Characterization Report, Olympic Water & Sewer, Inc. Property, 781 Walker Way, Port Ludlow, Washington

Dear Larry:

SLR International Corp (SLR) has prepared this report to present the results of a subsurface investigation at the above-referenced property. The primary objectives of the work were to: 1) assess the gasoline concentrations in the soil at the area of the northern former gasoline underground storage tanks (USTs; apparent source of known gasoline-impacted perched groundwater), 2) delineate the lateral and vertical extents of the gasoline-impacted perched groundwater, and 3) to characterize any seasonal effects on the perched groundwater elevations and contaminant concentrations.

PROPERTY DESCRIPTION AND HISTORY

The subject property, which is owned by Olympic Water & Sewer, Inc. (OWSI), is located at 781 Walker Way in Port Ludlow, Washington. The location of the property is shown on Figure 1. The property is located at the southwest corner of the intersection of Walker Way and Rainier Lane (see Figure 2). The property is surrounded by private residences to the south and west; by Walker Way and a commercial business (storage facility) and private residences to the north; and by Rainier Lane and private residences to the east.

The OWSI property is an approximate 2.2-acre parcel that is partially developed with an OWSI operation and maintenance facility. The facility consists of an approximate ½-acre area that includes an office/shop/garage building, a public water supply well (Well #2) and associated pump house building, and a storage trailer (see Figure 2). The ground surface within the facility is primarily unpaved, except for a narrow asphalt driveway that runs down the center of the facility from Walker Way to approximately the storage trailer. The ground surface of the facility slopes gently to the southwest. Within the OWSI property, the facility is surrounded on all sides by dense forest, and a gulley is located within the forest to the west of the facility. The facility has been operating since 1968,



after the installation of the water supply well. Prior to 1968, the property was undeveloped.

SUMMARY OF PREVIOUS ENVIRONMENTAL ACTIVITIES

UST Removals

In September 1990, Applied Geotechnology, Inc. (AGI) removed three gasoline USTs at the property. A 1,000-gallon UST was located beneath the floor of the northern garage bay, a 2,000-gallon UST was located outside (west) of the northern garage bay, and another 2,000-gallon UST was located approximately 40 feet south of the garage. The approximate locations of the UST excavations are shown on Figure 2. After removing each UST, one soil sample was collected from the sidewalls and/or floor of each excavation for laboratory analysis. The soil sample analytical results showed that the floor samples from the 1,000-gallon UST excavation and the northern 2,000-gallon UST excavation contained total petroleum hydrocarbons (TPH; identified as gasoline) concentrations of 3,000 and 963 milligrams per kilogram (mg/kg), respectively (AGI, 1991). There was no field evidence of gasoline-impacted soil in the southern 2,000-gallon UST excavation did not contain a TPH concentration greater than the method reporting limit (MRL).

To remove additional impacted soil in the 1,000-gallon UST excavation and the northern 2,000-gallon UST excavation, soil excavation activities were conducted in October 1990. The 2,000-gallon UST excavation was extended to a depth of approximately 12 feet below ground surface (bgs). Soil samples collected from the sidewalls and floor of the expanded excavation contained TPH concentrations of up to 30 mg/kg (AGI, 1991). To prevent any structural damage to the building, the 1,000-gallon UST excavation could only be extended to a depth of approximately 10 feet bgs. A composite floor sample from the expanded excavation contained a TPH concentration of 1,237 mg/kg, and a composite sidewall sample contained a TPH concentration of 30 mg/kg. Approximately 120 cubic yards of impacted soil were removed from the northern 2,000-gallon UST excavation, and approximately 30 cubic yards of impacted soil were removed from the 1,000-gallon UST excavation and biodegradation methods.

In October 1990, a water sample from Well #2 was collected and analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). The sample did not contain BTEX concentrations greater than the MRLs (AGI, 1991). In January 1991, AGI assessed the soil conditions beneath the 1,000-gallon UST excavation by drilling an angle boring (designated MW-1) and collected soil samples. The approximate location of the boring is

shown on Figure 2. The boring was drilled at an angle of 25 degrees east of vertical and extended to a measured depth of approximately 30 feet (27 feet vertical depth and 12 feet east of the top of the hole). Soil samples collected from the boring, at depths of approximately 15 and 30 feet, did not contain TPH concentrations greater than the MRL (AGI, 1991).

Water Supply Well Installation

On April 21, 2009, during the drilling of a replacement water supply well (designated Well #17) at the southern part of the OWSI facility, the driller noticed a gasoline odor emanating from the well casing at a depth of approximately 50 feet [Robinson Noble & Saltbush, Inc. (Robinson Noble), 2009]. The drilling was discontinued, and soil and perched groundwater samples were collected from the bottom of the casing for laboratory analysis. The analytical results showed that the groundwater sample contained gasolinerange organics (GRO) and benzene concentrations [5,530 and 948 micrograms per liter (µg/L), respectively] that exceeded the Model Toxics Control Act (MTCA) Method A groundwater cleanup levels (800 and 5 μ g/L, respectively). Due to the presence of gasoline-impacted perched groundwater, the well was not completed and the casing was capped. The location of the casing for Well #17 is shown on Figure 2. On April 23, 2009 and April 15, 2010, water samples were collected from Well #2 to verify that petroleum hydrocarbons had not impacted the water supply. The sample analytical results showed that petroleum hydrocarbons were not detected above the MRLs. The analytical results of the 2009 sample were presented in a report by Robinson Noble (Robinson Noble, 2009), and a copy of the laboratory report for the 2010 sample is presented in Appendix A.

Notification of Release

Within 24 hours after the laboratory confirmed that GRO and benzene concentrations were present above MTCA Method A cleanup levels in the perched groundwater, Mr. Greg Rae of OWSI notified the Jefferson County Health Department (Health Department) of the impacted groundwater, and the Health Department notified the Washington Department of Ecology (Ecology). Ecology added the OWSI property to their Confirmed or Suspected Contaminated Sites database.

SITE CHARACTERIZATION ACTIVITIES

From April through October 2010, SLR conducted a subsurface investigation at the subject property to meet the objectives described previously. The investigation activities and the results of the work are presented below.

Drill and Install Groundwater Monitoring Wells

April 2010 Drilling and Sampling Activities

On April 14, 2010, four soil borings (designated MW-1A, MW-1B, MW-1C, and MW-2A) were drilled in an attempt to install perched groundwater monitoring wells at the former northern gasoline UST area and near the storage trailer. The approximate locations of the borings are shown on Figure 2. Prior to conducting the drilling activities, public and private utility locating services identified and marked the locations of underground utilities at the property. Cascade Drilling, Inc. (Cascade) of Woodinville, Washington, conducted the drilling activities under the direction of an SLR geologist. The borings were drilled by using hollow-stem auger methods, and soil samples were collected from the borings at approximate 5-foot intervals by using 3-inch diameter splitbarrel samplers. Three borings (designated MW-1A, MW-1B, and MW-1C) were drilled near the northern 2,000-gallon gasoline UST excavation, and were advanced to depths of approximately 19.5, 39, and 36.5 feet, respectively, before meeting refusal due to cobbles. One boring (designated MW-2A) was drilled to the north of the storage trailer, and was advanced to a depth of approximately 29.5 feet before meeting refusal due to cobbles. The soil cuttings are stored on the property in properly labeled 55-gallon drums, pending off-site disposal at an Ecology-approved facility.

SLR screened each soil sample for evidence of petroleum hydrocarbons such as sheen, staining, odor, and detectable photoionization detector (PID) readings. Strong hydrocarbon-like odors were present in the three MW-1 borings at depths between approximately 16.5 and 31.5 feet bgs. There was no field evidence of petroleum hydrocarbons in boring MW-2A. The soil sample with the highest PID reading, the 24.5-foot-deep sample from MW-1B, was submitted to Friedman & Bruya, Inc. (F&B) in Seattle, Washington, for analysis. Soil boring logs that present the field screening results are presented in Appendix B. Perched groundwater was not encountered in any of the borings. Immediately after drilling, all of the borings were abandoned by filling with hydrated bentonite pellets.

June 2010 Well Installation Activities

To ensure that the borings could be advanced to groundwater, air rotary drilling methods were used to install four perched groundwater monitoring wells (designated MW-1, MW-2, MW-3, and MW-4) at the subject property on June 7, 8, 9, 10, and 11, 2010. Tacoma Pump and Drilling, Inc. (Tacoma Pump), of Spanaway, Washington, conducted the drilling and well installation activities under the direction of an SLR geologist. Well MW-1 was installed near the likely source of the impacted perched groundwater (the northern former gasoline UST area), and MW-2, MW-3, and MW-4 were installed at

locations to delineate the western/southwestern, southern, and northern extents of the impacted perched groundwater. The locations of the wells are shown on Figure 2. Each of the borings was advanced below the perched groundwater table, to depths ranging from approximately 46 to 60 feet bgs. The soil cuttings are stored on the property in properly labeled 55-gallon drums, pending off-site disposal at an Ecology-approved facility.

Since soil samples had already been collected near well MW-1 to a depth of approximately 35 feet and the other wells were not located near a potential contaminant source area, the sampling plan included the collection of soil samples from each boring at depths below 40 feet bgs. However, due to encountering perched groundwater at shallower depths than anticipated (as discussed below), soil samples were collected at depths below 30 feet in the borings to install MW-3 and MW-4. SLR screened each soil sample, as well as the drill cuttings, for evidence of petroleum hydrocarbons such as sheen, staining, odor, and detectable PID readings. There was limited field evidence of petroleum hydrocarbons (PID readings of up to 18.4 parts per million) in any of the Soil boring logs that present the field screening results are presented in borings. Appendix B. To assess the soil conditions near the perched groundwater table, a soil sample collected from each boring, at a depth near the estimated perched groundwater table, was submitted to F&B for analysis. To delineate the vertical extent of the impacted perched groundwater, a soil sample collected from near the bottom of each boring was also submitted to F&B for analysis.

Each groundwater monitoring well was constructed with 2-inch-diameter schedule 40 PVC casing and screen. The screen (0.010-inch slots) for each well was installed at a depth that intersected the estimated perched groundwater table. Due to difficulty determining the perched groundwater table at several borings, the screen lengths ranged from 10 to 20 feet long to try to ensure that the screen intersected the water table. Hydrated bentonite chips were placed from the bottom of each boring to the bottom of the well. A filter pack of 10x20 ColoradoTM silica sand was installed from the bottom of the well to approximately 1.5 to 3 feet above the uppermost screen slot. Hydrated bentonite chips were placed above the sand pack to approximately 2 feet bgs. A flush-grade, traffic-rated, steel monument was installed in concrete to protect each well. After installation, Tacoma Pump developed the wells by using surging and bailing methods. The development water is stored on the property in properly labeled, 55-gallon drums, pending off-site disposal at an Ecology-approved facility. Soil boring logs that describe the well construction details are presented in Appendix B.

After installing the wells, Signature Surveying & Mapping, PLLC (Signature) of Shoreline, Washington, surveyed the location, and the ground surface and top of casing elevations of each well relative to the NAVD 88 datum. The top of casing elevations are presented in Table 1.

Conduct Groundwater Sampling Events

To assess the perched groundwater conditions and evaluate potential seasonal variations in groundwater elevations and water quality, SLR personnel conducted groundwater sampling events on June 14 and October 20, 2010. Immediately prior to sampling, the depths to groundwater were measured in all of the groundwater monitoring wells by using an electronic water level probe. The depth to groundwater measurements were converted to groundwater elevations by using the results of the well elevation survey.

Before the sample collection in June, SLR purged at least three pore volumes from each well by using a disposable PVC bailer. The bailers were also used to collect the samples. In October, a submersible Grundfos RediFlo 2 pump was used to purge and sample the wells by low flow (0.3 liters per minute) pumping methods. The pump intake was set at a depth of approximately 3 feet below the water table in each well. During purging, field parameters of temperature, conductivity, pH, dissolved oxygen, and oxidation-reduction potential were measured. Each groundwater sample was collected following the stabilization of the field parameter measurements. The groundwater samples were submitted to F&B for analysis. The purge water is stored on the property in properly labeled, 55-gallon drums, pending off-site disposal at an Ecology-approved facility.

SAMPLE ANALYTCAL RESULTS

Soil

In April 2010, F&B analyzed the soil sample from boring MW-1B that was collected at a depth of approximately 24.5 feet bgs. The sample was analyzed for GRO by Ecology Method NWTPH-Gx, for BTEX, methyl tertiary butyl ether (MTBE), 1,2-dibromoethane (EDB), 1,2-dichlorooethane (EDC), and naphthalene by EPA Method 8260C, and for lead by EPA Method 200.8. The soil sample analytical results showed that the sample contained GRO and benzene concentrations (140 and 0.49 mg/kg, respectively) that exceeded the MTCA Method A soil cleanup levels (30 and 0.03 mg/kg, respectively). Toluene, ethylbenzene, total xylenes, naphthalene, and lead were detected at concentrations (5.70, 1.20, 6.70, 0.58, and 1.11 mg/kg, respectively) that were below the Method A cleanup levels (7, 6, 9, 5, and 250 mg/kg, respectively). The other analytes were not detected at concentrations above the MRLs. To obtain the additional data necessary to calculate a site-specific MTCA Method B soil cleanup level, if appropriate, the sample from MW-1B was also analyzed for volatile petroleum hydrocarbons (VPH) by Ecology Method NWVPH and hexane by EPA Method 8260C. The soil sample analytical results [GRO, BTEX, naphthalene, and lead only] are presented in Table 1, and copies of the laboratory reports are presented in Appendix C.

In June 2010, F&B analyzed soil samples from borings MW-1 (collected at depths of approximately 40 and 55 feet bgs), MW-2 (collected at depths of approximately 40 and 55.5 feet bgs), MW-3 (collected at depths of approximately 30.5 and 45.5 feet bgs), and MW-4 (collected at depths of approximately 30.5 and 55 feet) for GRO, BTEX, and naphthalene. The soil sample analytical results showed that both samples from MW-2 and the deep sample from MW-3 contained benzene concentrations (0.036 to 0.21 mg/kg) that exceeded the MTCA Method A soil cleanup level. The samples from MW-1 and MW-4 and the 30.5-foot-deep sample from MW-3 did not contain analyte concentrations that exceeded the MRLs. The soil sample analytical results are presented in Table 1, and copies of the laboratory reports are presented in Appendix C.

Groundwater

F&B analyzed the June 2010 groundwater samples for GRO by Ecology Method NWTPH-Gx, for BTEX, MTBE, EDC, and naphthalene by EPA Method 8260C, for EDB by EPA Method 8011 Modified, and for total lead by EPA Method 200.8. The analytical results showed that the sample from well MW-2 contained GRO, benzene, and ethylbenzene concentrations (8,400, 2,100, and 960 μ g/L, respectively) that exceeded the MTCA Method A groundwater cleanup levels (800, 5, and 700 μ g/L, respectively). The sample from MW-1 also contained GRO and benzene concentrations (990 and 110 μ g/L, respectively) that exceeded the Method A cleanup levels. The samples from MW-3 and MW-4 contained analyte concentrations that were either below the Method A cleanup levels or below the MRLs.

F&B analyzed the October 2010 groundwater samples for GRO, BTEX, and naphthalene. The analytical results showed that the samples from MW-1 and MW-2 contained GRO concentrations (1,900 and 3,900 μ g/L, respectively) and benzene concentrations (520 and 1,300 μ g/L, respectively) that exceeded the MTCA Method A groundwater cleanup levels. The samples from MW-3 and MW-4 did not contain analyte concentrations that exceeded the MRLs. All of the groundwater sample analytical results are presented in Table 2, and the GRO and benzene concentrations are also shown on Figures 3 and 4. Copies of the laboratory reports are presented in Appendix C.

GEOLOGY AND HYDROGEOLOGY

The soils beneath the subject property consist of dense glacial advance outwash (sand, gravel, and silt units) with interbedded lacustrine silts to the maximum depth drilled (approximately 60 feet bgs). Specifically, thin surficial gravel fill is underlain by a sand (silty to gravelly) to gravel unit that is approximately 29 to 43 feet thick. Beneath the central and southern parts of the property, a 5- to 10-foot-thick sandy silt to silt is interbedded within the sand to gravel unit. The sand to gravel unit is underlain by clayey

to gravelly silt that is 15 to at least 23 feet thick. At MW-2, MW-3, and MW-4, a gravelly sand to sand and gravel that is approximately 5 to 7.5 feet thick is interbedded within the silt unit. At MW-1, the silt unit is underlain by a silty sand that extends beyond the bottom of the boring. A cross-sectional view of the shallow geology (to approximately 60 feet bgs) beneath the property (Section A-A') is shown on Figure 6. The location of the cross section is shown on Figure 5.

According to the driller's log for the water supply well (Well #2) located in the northern part of the property, a thick sequence of clay and cemented sand occurs from approximately 49 to 215 feet bgs. The deep water-bearing units at Well #2 occur at depths between 215 and 245 feet bgs. The well log is presented in Appendix D.

On June 14 and October 20, 2010, the groundwater table beneath the property occurred within the sand to gravel unit, and appeared to be perched on top of the underlying silt unit. On June 14th, the depths to the perched groundwater in the wells ranged from 23.92 to 41.33 feet below the tops of the well casings, and the groundwater elevations ranged from 252.69 to 271.41 feet above the NAVD 88 datum. On October 20th, the depths to the perched groundwater in the wells ranged from 26.67 to 40.71 feet below the tops of the well casings, and the groundwater elevations ranged the NAVD 88 datum.

Groundwater flow appears to be controlled by the geometry of the clayey to gravelly silt, with flow converging into the low point of the top of the silt unit. The elevation of the silt is about 10 feet lower at monitoring wells MW-1 and MW-2 than at wells MW-3 and MW-4 (see Figure 6). From June to October, the perched groundwater elevations beneath the property decreased 2.75 feet at MW-4 and 3.51 feet at MW-3, while groundwater levels in wells located at the low point of the clayey to gravelly silt unit showed substantially less decline (1.08 feet at MW-2) or an increase (1.03 foot rise at MW-1). These water level changes are consistent with groundwater migrating from the higher parts of the silt unit and collecting in the lower parts of the silt. This interpretation is consistent with the greatest hydrocarbon impacts occurring at wells MW-1 and MW-2. Based on the known clayey to gravelly silt geometry and the area of petroleum hydrocarbon-impacted groundwater, there appears to be a flow component to the south-southwest. The groundwater monitoring data from both sampling events are presented in Table 3.

GROUNDWATER RECEPTOR SURVEY

SLR conducted a survey to identify the potential groundwater and surface water receptors in the vicinity of the subject property. The receptor survey included a review of Ecology and OWSI records of water supply wells located within a ¹/₂-mile radius of the property, a

review of a topographic map of the property area, and a survey of the elevations of the bottom of the gulley in the western part of the property.

Well Records

Ecology and OWSI well records identified 12 water supply wells located within a ¹/₂-mile radius of the property. Based on the well records, the locations of the wells are accurate to at least the quarter-quarter of a section. As shown on Figure 7, the wells are located to the north, northwest, and west of the area of impacted perched groundwater at the property. All of the available water supply well completion logs and a table that presents the well completion details are presented in Appendix D.

According to the well records, the groundwater from each of the supply wells in the property area is used for domestic purposes. There is one public water supply well (Well #2) located at the northern end of the property. The well is screened at depths ranging from 214 to 245 feet bgs. All of the identified water supply wells in the vicinity of the property are completed (screened or open casing) at depths between 157 and 377 feet. The soil descriptions on the well logs consistently note that a thick sequence of clay units occur above the deep groundwater-bearing zones. Groundwater flow directions in the deeper regional aquifer have been inferred to flow from the upland areas toward Port Ludlow (Economic and Engineering Services, Inc., 1994), indicating that the water supply wells are located hydraulically upgradient or cross-gradient of the impacted perched groundwater. Based on the presence of the clay and the inferred deep groundwater flow direction, it is unlikely that the impacted perched groundwater beneath the property could affect water quality in the deep groundwater-bearing zones. The lack of detectable petroleum hydrocarbons in the 1990, 2009, and 2010 water samples from Well #2 provides evidence to that assertion.

Topographic Map and Gulley Elevation Survey

Based on a review of a 1991 topographic map of the property area, there are two surface water bodies located within ½ mile of the property. Puget Sound (Port Ludlow Bay) is located approximately 2,900 feet to the south of the property, and an unnamed pond is located approximately 650 feet to the north of the property (see Figure 4). The pond is located at a ground surface elevation approximately 40 feet higher than the property, and it is unlikely that the perched groundwater beneath the property discharges into the pond.

The gulley located in the western part of the property extends south, beyond Oak Bay Road, to a low lying marshy area near Puget Sound. The topographic map does not indicate that surface water is present in the gulley, and on October 20, 2010, SLR personnel inspected the eastern slope and bottom of the gulley (within the property

boundaries) for the presence of perched groundwater seeps. There was no observed evidence of groundwater seepage and there was no surface water in the gulley at that time. The north end of the gulley (near Walker Way) is approximately 6 feet deep, and next to the southern boundary of the OWSI facility, the gulley is over 20 feet deep. To compare the perched groundwater elevations to the elevations of the bottom of the gulley, Signature surveyed the ground surface elevations at 17 locations on the bottom of the gulley range from 285.6 feet at the northern end of the gulley to 254.0 feet at the southern property line (see Figure 4). In October 2010, the groundwater elevation near the southern end of the OWSI facility (260.67 feet at MW-3) was 6.67 feet higher than the gulley floor approximately 155 feet to the southwest. Since groundwater seeps were not observed in the gulley, it appears that the perched groundwater elevations, at the time of the observations, were below the gulley floor.

The OWSI property is located near the top of a steep slope down to Puget Sound (see Figure 1). Since the topography slopes to the south and the gulley is oriented north-south and is over 2,500 feet long, the perched groundwater beneath the property may seep into the gulley at a location to the south of the property.

CONCLUSIONS

From April through October 2010, SLR conducted a subsurface investigation at the OWSI property to: 1) assess the gasoline concentrations in the soil at the area of the northern former gasoline USTs, 2) delineate the lateral and vertical extents of the gasoline-impacted perched groundwater, and 3) characterize seasonal effects on the perched groundwater elevations and water quality. Based on the investigation results, SLR presents the following conclusions related to the environmental conditions at the property.

Based on the soil sample analytical results from this investigation and from the UST removal activities, it appears that the former northern gasoline UST area is the source of the hydrocarbon-impacted perched groundwater. The field screening results and the soil and groundwater sample analytical results indicate that the gasoline did not migrate straight down to the groundwater zone. The area of remaining impacted soil within the vadose zone has not been fully delineated.

Low benzene concentrations (0.036 to 0.21 mg/kg), marginally above the MTCA Method A soil cleanup level, were detected at depths of up to 15 to 20 feet below the perched groundwater table. The benzene detected in the saturated soil samples likely reflects benzene dissolved in the pore water, rather than adsorbed to the soil. Since the low benzene concentrations in saturated soil likely reflect dissolved benzene in pore water,

SLR does not believe that further assessment of the vertical extent of impacts to soil is warranted.

Based on the groundwater sample analytical results from this investigation and from the 2009 drilling of Well #17, petroleum hydrocarbon concentrations greater than the MTCA Method A groundwater cleanup levels occur near the source area (former northern gasoline UST area) and extend to the south and southwest. The estimated area of the impacted groundwater is shown on Figure 8. The impacted groundwater likely extends beyond the western fenceline of the OWSI facility; however, that area of the OWSI property is not accessible for investigation. The southern and northern extents of the impacted groundwater have been delineated. Although the eastern extent of the impacted groundwater has not been delineated, the current distribution of groundwater concentrations suggest that eastward migration of the impacted groundwater is unlikely.

The vertical extent of the hydrocarbon-impacted perched groundwater was not fully delineated at all areas; however, due to the presence of a thick sequence of clay units beneath the property area, the potential for migration of the impacted groundwater to a deeper water-bearing unit is considered very low. SLR does not believe that further assessment of the vertical extent of the impacted groundwater is necessary.

If you have any questions, please call Mike Staton at (425) 471-0479.

Sincerely,

SLR International Corp

Kim A. Saganski, L.G. Senior Geologist

Michael D. Staton, L.G. Principal Geologist

Attachments: Limitations References Tables 1, 2, and 3 Figures 1 through 8 Appendix A – Laboratory Report for Well #2 Sample Collected in 2010 Appendix B – Soil Boring Logs Appendix C – Laboratory Reports Appendix D – Water Supply Well Logs

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cc: Sue Schroader, Olympic Property Group Diana Smeland, Port Ludlow Associates Joe Rehberger, Cascadia Law Group Chip Goodhue, Aspect Consulting Group Tom Kilbane, Short Cressman & Burgess, PLLC

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

REFERENCES

- Applied Geotechnology, Inc. 1991. Hydrocarbon Contamination Assessment and Underground Storage Tank Removal, Port Ludlow Water District, Port Ludlow, Washington. March 4.
- Economic and Engineering Services, Inc. (in association with Pacific Groundwater Group). 1994. Eastern Jefferson County Groundwater Characterization Study. May.
- Robinson Noble & Saltbush, Inc. 2009. Well 17 Site Contamination, Initial Findings, and Recommendations. April 26.

TABLES

Table 1Soil Sample Analytical Results - BTEX, Naphthalene, GRO, and LeadOlympic Water and Sewer PropertyPort Ludlow, Washington

			Approximate			Anal	Analytical Results (mg/kg)	ig/kg)		
Soil Boring Number	Sample Name	Date Collected	Sample Depth (feet)	Benzene ^a	Toluene ^a	Ethylbenzene ^a	Total Xylencs ^a Naphthalenc ^a	Naphthalene ^a	GRO ^b	Lead
MTCA Method A Cleanup Levels ^d	p Levels ^d			0.03	F	9	9	ດັ	30	250
MW-1B	MW1-24.5-25	4/14/2010	24.5 to 25	0.49	5.70	1.20	6.70	0.58	140	1.11
I-WM	MW1-40'	6/8/2010	40 to 40.3	<0.03	<0.05	<0.05	<0.15	<0.05	\$	NA
MW-1	MW1-55'	6/8/2010	55 to 55.5	<0.03	<0.05	<0.05	<0.15	<0.05	<2	NA
MW-2	MW2-40'	6/9/2010	40 to 40.3	0,21 ^f	0.062	0.11	0.066	<0.05	2.90	NA
	MW2-55.5'	6/9/2010	55.5 to 55.8	0.21 ^f	<0.05	<0.05	<0.15	<0.05	4	NA
	MW3-30.5'	6/9/2010	30.5 to 30.9	<0.03	<0.05	<0.05	<0.15	<0.05	2	NA
	MW3-45.5	6/10/2010	45.5 to 45.9	0.036	⊲0.05	<0.05	<0.15	<0.05	4	NA
MW-4	MW4-31	6/10/2010	30.5 to 31	<0.03	<0.05	<0.05	<0.15	<0.05	\$	NA
MW-4	MW4-55	6/11/2010	55 to 55.5	<0.03	<0.05	<0.05	<0.15	<0.05	7	NA
NOTES:	-									
mg/kg = milligrams per kilogram (ppm).	ilogram (ppm).									
Values in bold exceed the soil cleanup levels.	e soil cleanup levels.									
NA = Not analyzed.										
^a Benzene, toluene, ethylbe	Benzene, toluene, ethylbenzene, and total xylenes (BTEX), and naphthalene by EPA Method 8260C.	EX), and naphthal	ene by EPA Meth	od 8260C.						
^b Gasoline-range organics (^b Casoline-range organics (GRO) by Ecology Method NWTPH-Gx.	WTPH-Gx.								
*Lead by FPA Method 200.8.	0.8.									
^d Chapter 173-340 WAC, 1	⁴ Chapter 173-340 WAC, Model Toxics Control Act (MTCA) Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001.	TCA) Cleanup Re	gulation, Method	A Cleanup Lev	els. Amended.	February 12, 2001.	·			
*The cleanup level is the to	^e The cleanup level is the total value for naphthalene, 1-methyl uaphthalene, and 2-methyl naphthalene.	nethyl naphthalen	e, and 2-methyl n	aphthalene.						
^T The benzene concentratio	*The benzene concentration in this sample likely reflects dissolved benzene in pore water rather than benzene adsorbed to the soil	s dissolved benzen	e in pore water ra	other than benze	ne adsorbed to	the soil.				

Table 2Groundwater Sample Analytical ResultsOlympic Water and Sewer PropertyPort Ludlow, Washington

	ş					Analytical Results (µg/L)	sults (µg/L)				
Well Number	Date Collected	Benzene ^a	Toluene ^a	Ethylbenzene ^a	Total Xylenes ^a	Naphthalene ^a	MTBE	EDC	EDB ^b	GRO [¢]	Total Lead ^d
MTCA Method A Cleanup Levels ^e	Levelse	'n	1,000	700	1,000	160 ^f	20	s	0.01	800	15
MW-1	6/14/2010	110	45	1.10	186	▽	V	∼	<0.01	066	$\overline{\nabla}$
	10/20/2010	520	140	110	221	15	NA	NA	NA	1,900	NA
MW-2	6/14/2010	2,100	620	960	650	100	1∨	<1	<0.01	8,400	₽
	10/20/2010	1,300	290	430	530	35	NA	NA	NA	3,900	NA
MW-3	6/14/2010	0.36	7	1	Q	7	1	⊽	<0.01	<100	V
	10/20/2010	<0.35	7	7	Q	7	NA	NA	NA	<100	NA
MW-4	6/14/2010	<0.35	⊽	7	V	7	7	-1	<0.01	001>	l≻
	10/20/2010	<0.35	7	7	٣	7	NA	NA	NA	<100	NA
NOTES:	-										
$\mu g/L = micrograms per liter (ppb). Values shaded and in bold exceed the groundwater cleanup levels.$	er (ppb). I exceed the grou	ndwater cleanul) levels.								
NA = Not analyzed.											
^a Benzene, toluene, ethylbenzene, and total xylenes (BTEX), naphthalene,	inzene, and total)	xylenes (BTEX)	, naphthalene, r	methyl tertiary butyl ether (MTBE), and 1,2-dichloroethane (EDC) by EPA Method 8260C.	tether (MTBE),	and 1,2-dichlorov	ethane (EDC) by	EPA Method 8	260C.		
^b 1,2-dibromoethane (EDB) by EPA Method 8011 Modified.) by EPA Method	d 8011 Modified	t								
^c Gasoline-range organics (GRO) by Ecology Method NWTPH-Gx.	(GRO) by Ecolog	y Method NWT	PH-Gx.								
^d Total lead by EPA Method 200.8.	od 200.8.										
^c Chapter 173-340 WAC, Model Toxics Control Act (MTCA) Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001	Model Toxics Cor	ntrol Act (MTC.	A) Cleanup Reg	ulation, Method A	Cleanup Levels.	Amended Febru	ary 12, 2001.				
^f The cleanup level is the total value for naphthalene. 1-methyl naphthalene, and 2-methyl naphthalene.	otal value for nap	hthalene, 1-met	yl naphthalene	, and 2-methyl napl	tthalene.						

T:\! PROJECTS\433 Olympic Water & Sewer\0001\Report Tables.xls

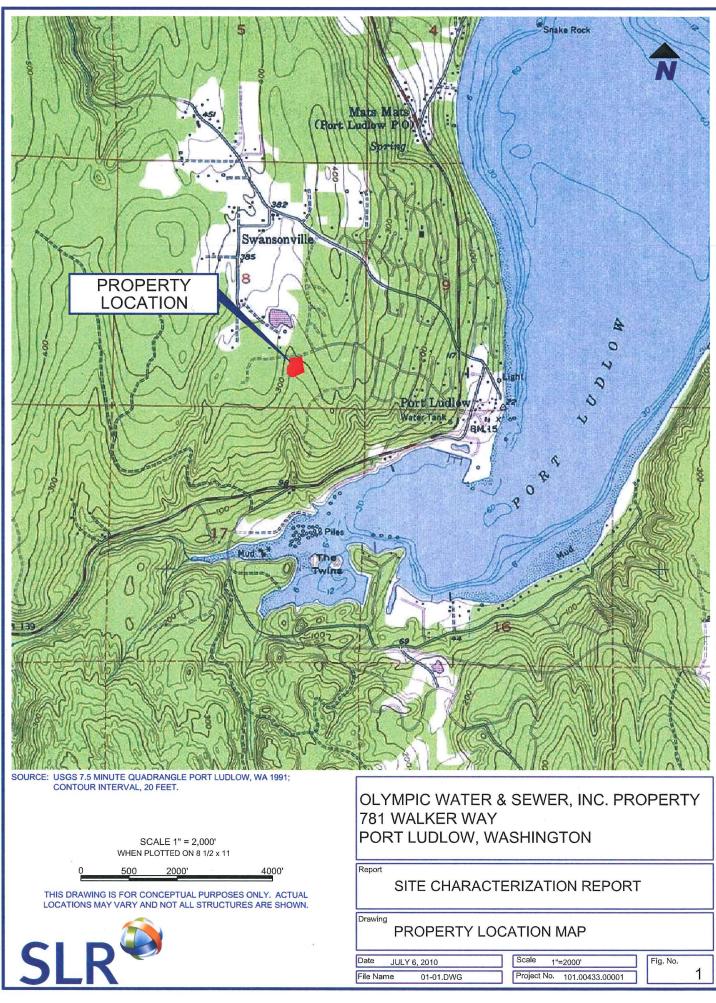
Page I of I

Table 3

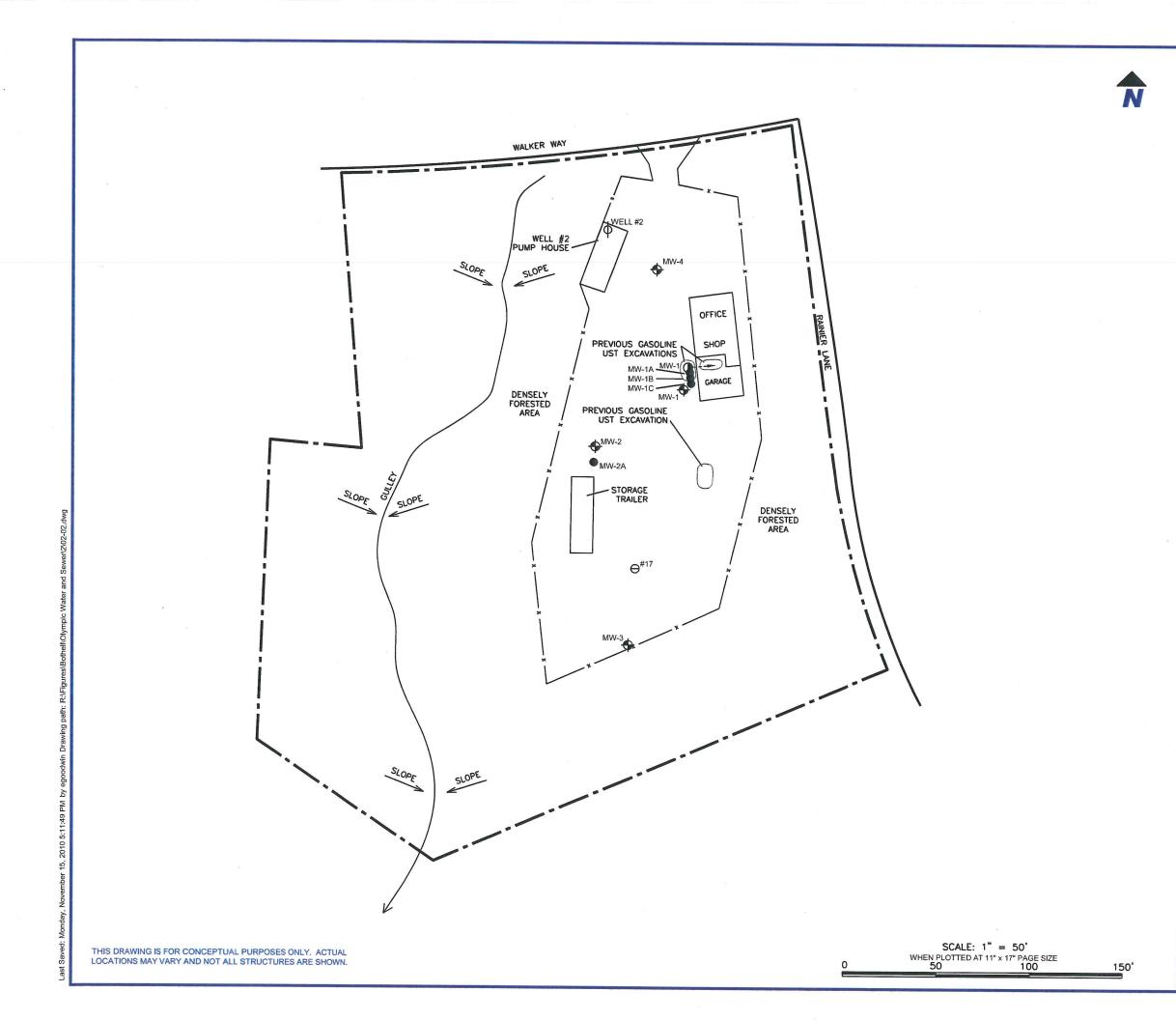
Groundwater Monitoring Data Olympic Water and Sewer Property Port Ludlow, Washington

Well Number	Top of Casing Elevation ^a (feet)	Date Measured	Depth to Groundwater ^b (feet)	Groundwater Elevation (feet)
MW-1	294.02	6/14/2010	41.33	252.69
		10/20/2010	40.30	253.72
MW-2	293.79	6/14/2010	39.63	254.16
		10/20/2010	40.71	253.08
MW-3	289.37	6/14/2010	25.19	264.18
		10/20/2010	28.70	260.67
MW-4	295.33	6/14/2010	23.92	271.41
		10/20/2010	26.67	268.66
	; elevations were sur indwater measured in		the NAVD 88 datun of PVC casing.	l

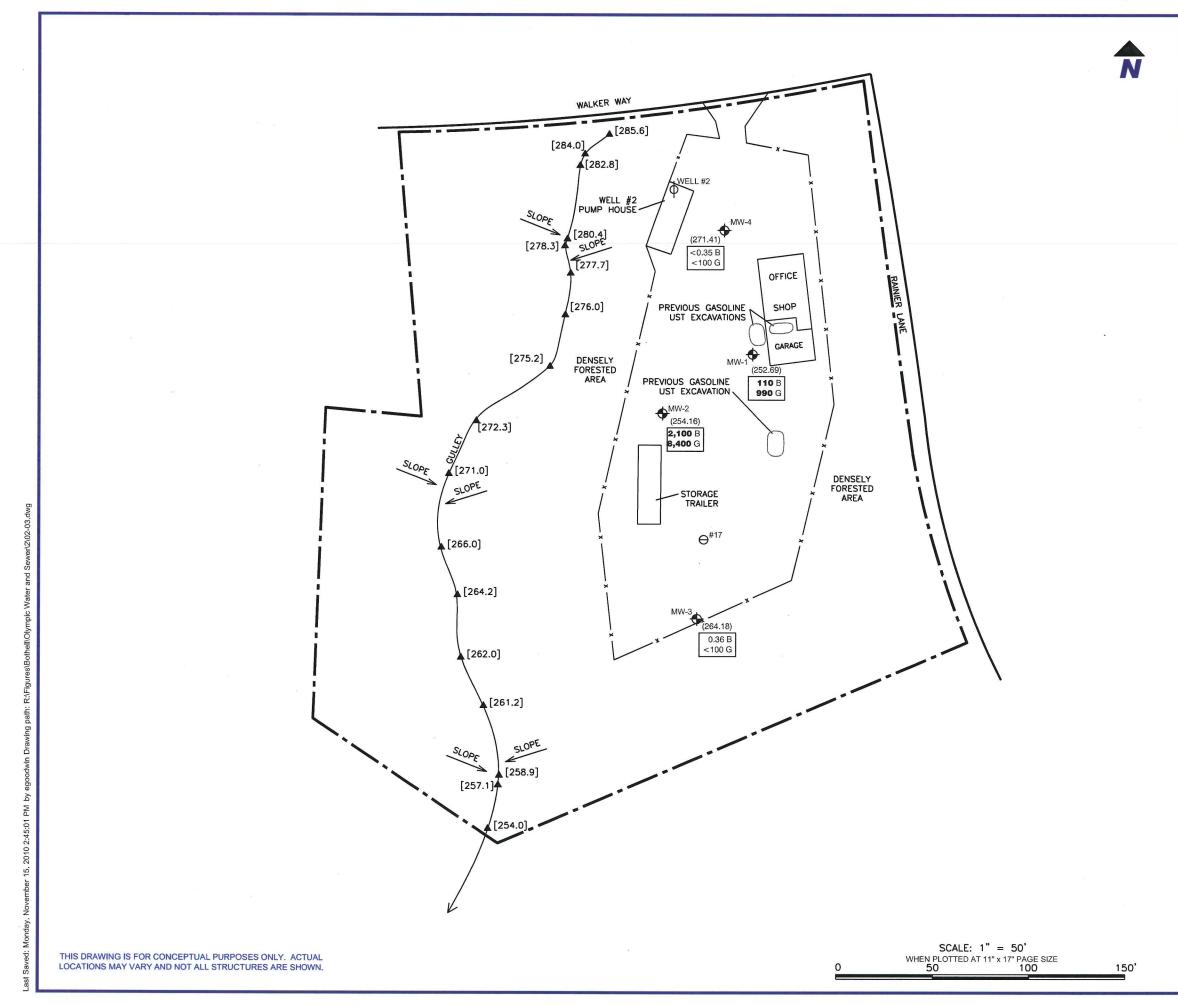
FIGURES

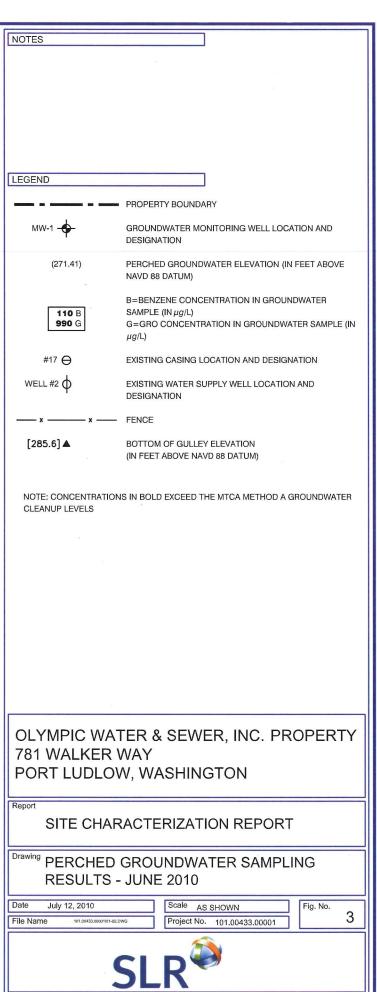


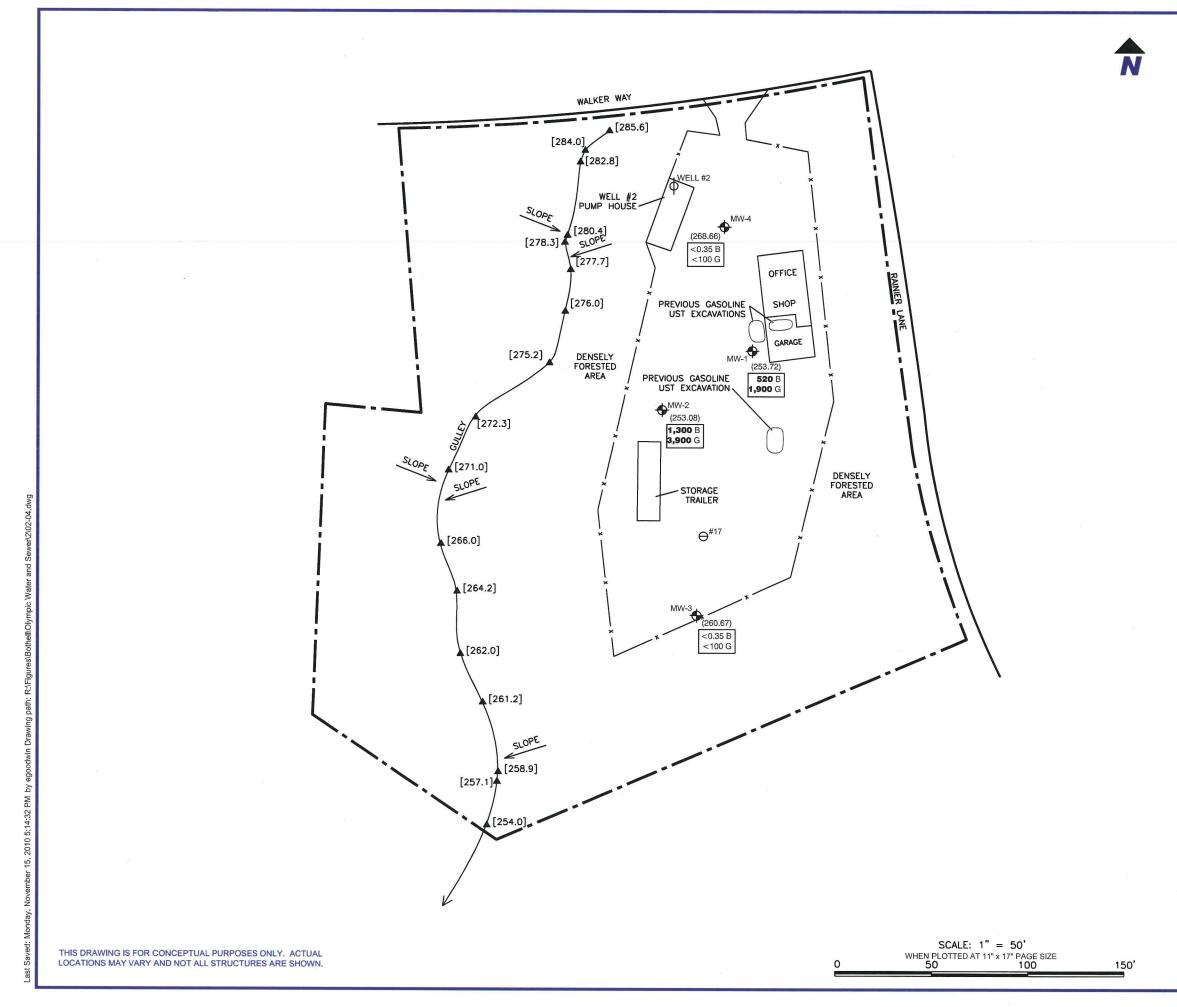
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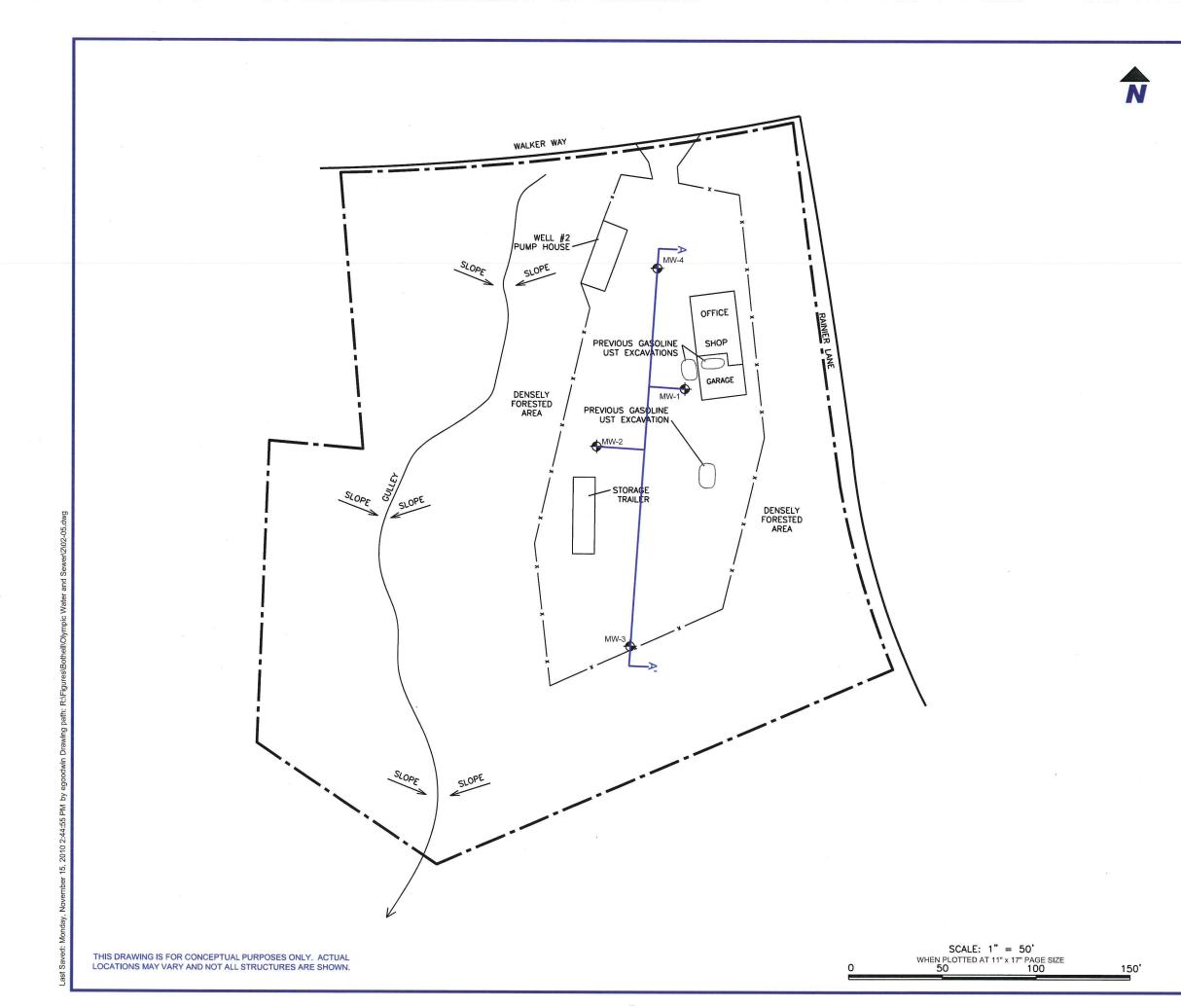
NOTES							
INUTES							
LEGEND							
	PROPERTY BOUNDARY						
MW-1 -	GROUNDWATER MONITORING WELL LOCATION AND						
······································	DESIGNATION						
MW-2A ●	APPROXIMATE SOIL BORING LOCATION AND DESIGNATION						
#17 O	EXISTING CASING LOCATION AND DESIGNATION						
WELL #2 ϕ ·	EXISTING WATER SUPPLY WELL LOCATION AND						
	DESIGNATION						
MW-1 ①	PREVIOUS ANGLE BORING LOCATION, DESIGNATION, AND						
	DIRECTION FROM VERTICAL						
x x	FENCE						
	FENCE						
	H						
v							
OLYMPIC WATER & SEWER, INC. PROPERTY							
781 WALKER WAY							
PORT LUDLOV	V, WASHINGTON						
Report							
SITE CHAR	ACTERIZATION REPORT						
GROUNDW	ATER MONITORING WELL						
LOCATION	S I						
Data Litera com							
Date July 12, 2010	Scale AS SHOWN Fig. No. vc Project No. 101 00433 00001 2						
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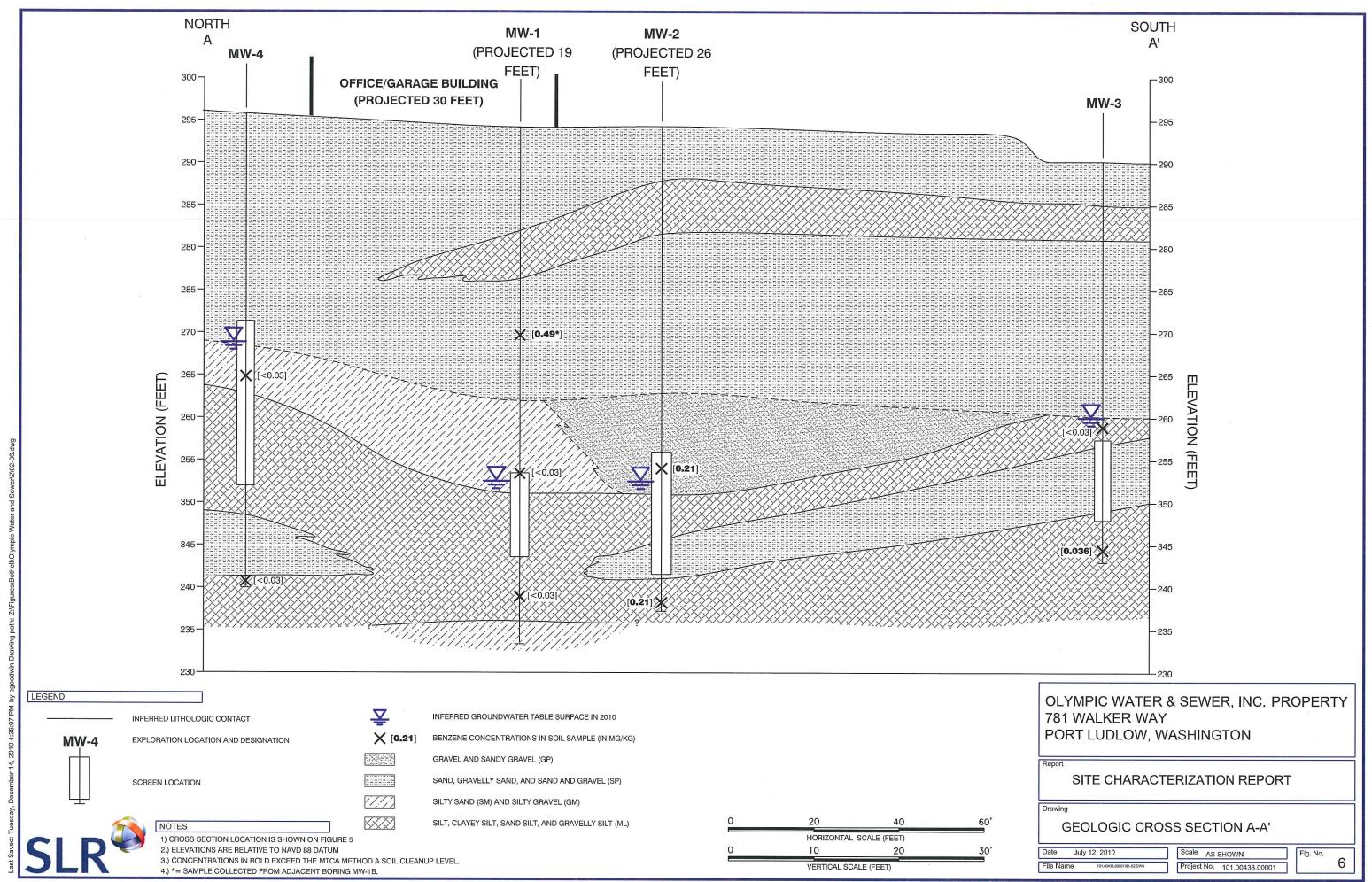


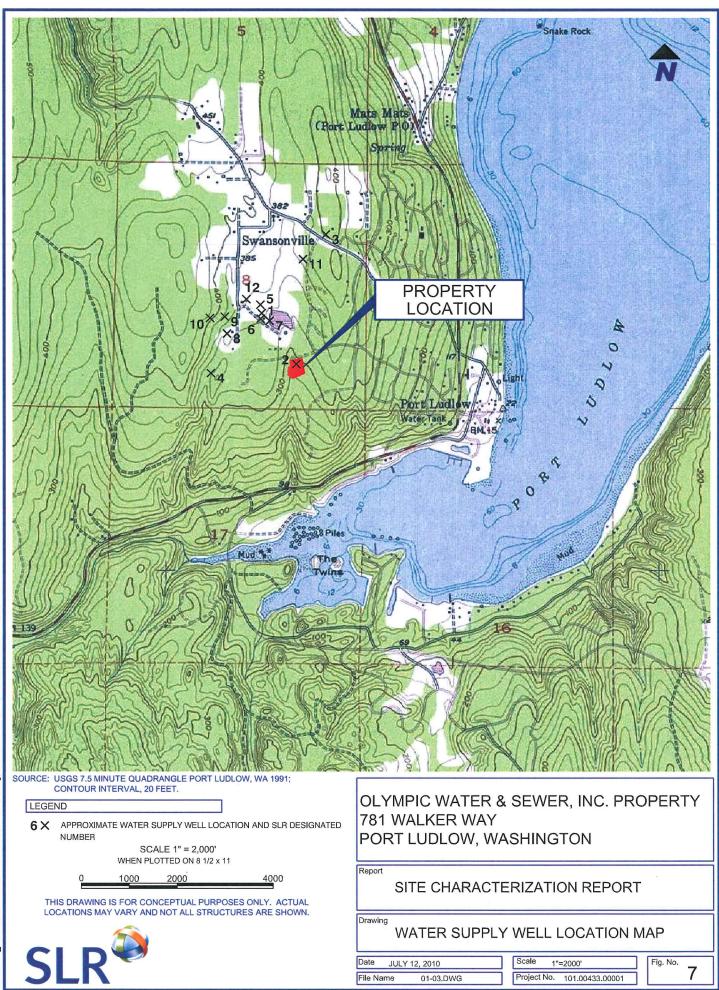


NOTES					
9					
LEGEND					
	PROPERTY BOUNDARY				
MW-1 -	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION				
(253.72)	PERCHED GROUNDWATER ELEVATION (IN FEET ABOVE NAVD 88 DATUM)				
	B=BENZENE CONCENTRATION IN GROUNDWATER				
520 B	SAMPLE (IN $\mu g/L$)				
1,900 G	G=GRO CONCENTRATION IN GROUNDWATER SAMPLE (IN $\mu g/L$)				
#17 O	EXISTING CASING LOCATION AND DESIGNATION				
WELL #2 φ	EXISTING WATER SUPPLY WELL LOCATION AND DESIGNATION				
x x	– FENCE				
[285.6]	BOTTOM OF GULLEY ELEVATION (IN FEET ABOVE NAVD 88 DATUM)				
	 A start water in particular in a starting and a starting starting of the starting				
NOTE: CONCENTRATIONS IN BOLD EXCEED THE MTCA METHOD A GROUNDWATER CLEANUP LEVELS					
0					
[
OLYMPIC WA	TER & SEWER, INC. PROPERTY				
781 WALKER					
	W, WASHINGTON				
Report					
SITE CHA	RACTERIZATION REPORT				
	GROUNDWATER SAMPLING				
	- OCTOBER 2010				
Date July 12, 2010	Scale AS SHOWN Fig. No.				
File Name 101.00433.00001101-	Project No. 101.00433.00001 4				
	1				
	SLR 🤎 👘 👘				

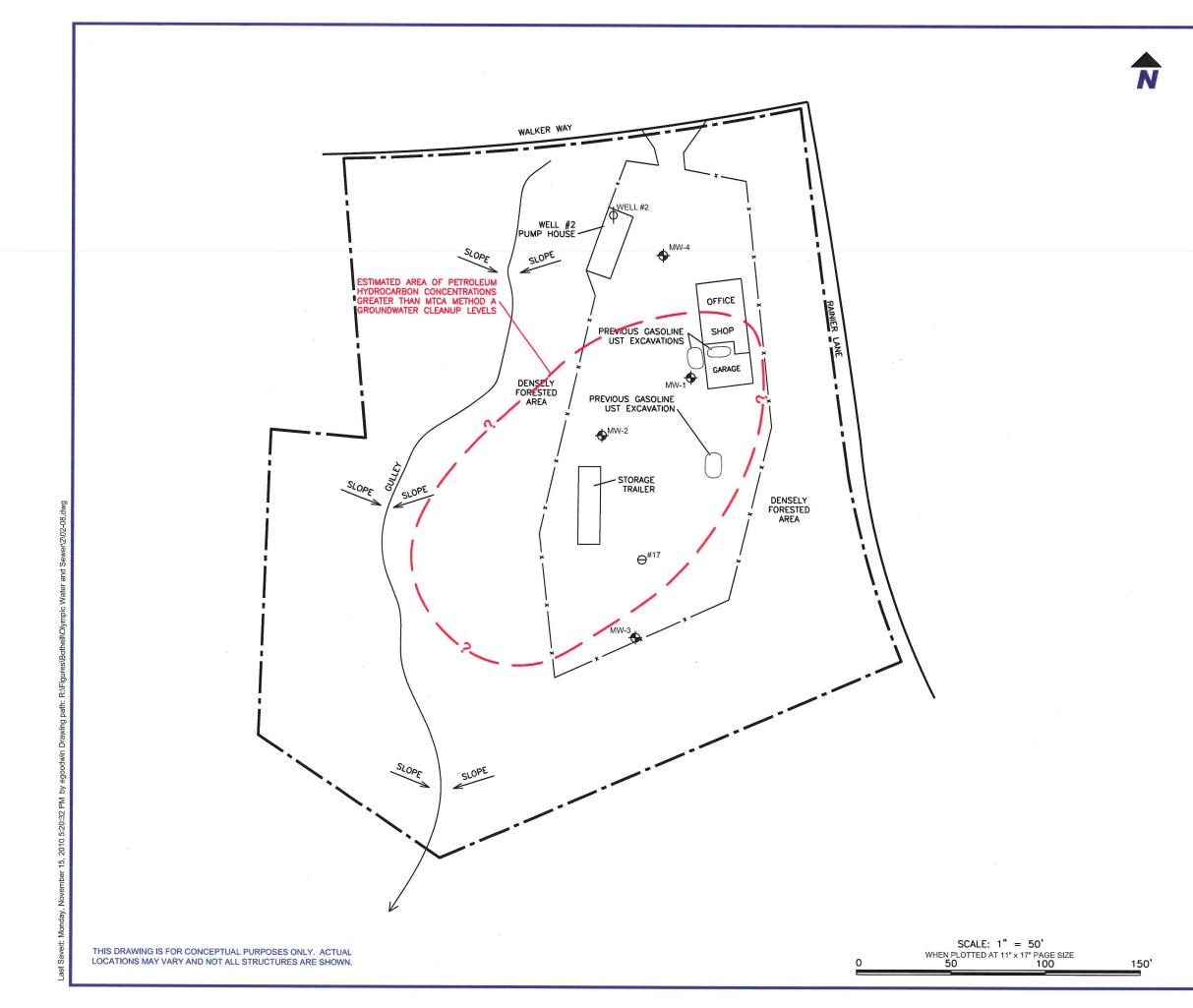


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	a
LEGEND	
	PROPERTY BOUNDARY
Streetingened Roya don	
MW-1 -	GROUNDWATER MONITORING WELL LOCATION AND
	DESIGNATION
x x	FENCE
A A'	
	CROSS SECTION PLAN VIEW
	·
	TER & SEWER, INC. PROPERTY
781 WALKER	50° 110000 000 00
PORT LUDLO	W, WASHINGTON
Report	
SITE CHAF	RACTERIZATION REPORT
Drawing	
	OF GEOLOGIC CROSS SECTION
A-A'	
Data	
Date July 12, 2010	Scale AS SHOWN Fig. No.
File Name 101.00433.00001101-02.	Project No. 101.00433.00001 D
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	5
LEGEND	
PROPERTY BOUNDARY	
MW-1 - GROUNDWATER MONITORING WELL I DESIGNATION	LOCATION AND
#17 O EXISTING CASING LOCATION AND DE	SIGNATION
WELL #2 WELL #2 WELL #2 WELL LOCA DESIGNATION	TION AND
x FENCE	
- *	
τ.	
OLYMPIC WATER & SEWER, INC. F	PROPERTY
781 WALKER WAY	
PORT LUDLOW, WASHINGTON	
Report	
SITE CHARACTERIZATION REPO	рт 📗
SITE CHARACTERIZATION REPU	
Drawing	
ESTIMATED AREA OF PETROLEUM	
HYDROCARBON-IMPACTED PERCHED GF	
Date July 12, 2010 Scale AS SHOWN	Fig. No.
File Name 101.00433.00001001-02.0WG Project No. 101.00433.00001	8
SLR	

APPENDIX A

LABORATORY REPORT FOR WELL #2 SAMPLE COLLECTED IN 2010

TWISS ANALYTICAL LABORATORIES, INC.

26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370 Telephone (360) 779-5141 FAX (360) 779-5150

VOC - VOC1 VOC - VOC1 by Various EPA Approved Methods Source / Point of Entry - Report of Analysis

						·		
Date Col	lected: 4/15/2010			Group:		4	-	
System II	D No: 68700L			System Na	une:	Olympic W	ater And Sewer	
Lab - Sar	nple #: 01055901			County:		lefferson		
Sample L	•			DOH Sour		S01		
-				Date Recei		4/15/2010		
Sample P	•							
-	Composition: S			Date Analy		4/22/2010		
Send Rep		Sewer		Date Repo	rted:	4/23/2010		
	781 Walker Way	275		Sample Ty	rpe:	Post-treatm	ent/Finished	
	Port Ludlow, WA 98	303		Collected	By:	Greg Rae		
				Phone Nu	•	360-437-78	98	,
				Bill To:		•	ater And Sewer	
÷	······			om 10.		781 Walke		•
DOH#	Analyte	Results	Units	SRL	Trigger	MCL*	MCL Exceeded	Method (Analyst Init.)
EPA/State	Regulated	· ·	<u> </u>					
103	1,2-Dibromo-3-Chloropropane	ND	μg/L	0,5	0.5	0.2		EPA 524.2 (TM)
160	Total Xylenes	ND	μg/L	0.5	0.5	10000		EPA 524.2 (TM)
57	T-1.2-Dichloroethene	ND	μg/L_	0.5	0.5	100		EPA 524.2 (TM)
60	Cis-1,2-Dichloroethene		<u>μg/L</u>	0.5	0.5	70		EPA 524.2 (TM)
47	1,1,1-Trichloroethane	<u>ND</u>	μ <u>g/L</u>	0.5	0.5	200		EPA 524.2 (TM)
48	Carbon Tetrachloride	ND	ug/L	0.5	0.5	5		EPA 524.2 (TM)
49	Benzene	<u>ND</u>	ug/L	0.5	0.5	5		EPA 524.2 (TM)
50	1,2-Dichloroethane	ND	<u>ug/L</u>	0.5	0.5	5	 	EPA 524.2 (TM) EPA 524.2 (TM)
	Trichloroethene 1,2-Dichloropropane	ND ND	µg/L	0.5	0.5	5		
63		· · · · · · · · · · · · · · · · · · ·		0.5	0.5	1000		EPA 524.2 (TM) EPA 524.2 (TM)
<u>66</u> 67	Toluene 1,1.2-Trichoroethane	ND ND	ug/L ug/L	0.5	0.5	5		EPA 524.2 (TM)
68	Tetrachloroethene	ND	$\mu g/L$	0.5	0.5	5		EPA 524.2 (TM)
71	Chlorobenzene	ND	μ <u>ε/L</u>	0.5	0.5	100	<u> </u>	EPA 524.2 (TM)
73	Ethyl Benzene	ND	ug/L	0.5	0.5	700	<u> </u>	EPA 524.2 (TM)
74	M/P Xylene	ND	ug/L	0.5	0.5	1	ļ T	EPA 524.2 (TM)
45	Vinyl Chloride	ND	1. 119/L	0.5	0.5	2		EPA 524.2 (TM)
75	O-Xylene	ND	μg/L	0.5	0.5	-		EPA 524.2 (TM)
76	Styrene	ND	μg/L	0.5	0.5	100		EPA 524.2 (TM)
52	P-Dichlorobenzene	ND	μ g/L	0.5	0.5	75		EPA 524.2 (TM)
84	O-Dichlorobenzene	ND	ug/L	0.5	0,5	600		EPA 524.2 (TM)
95	1,2,4-Trichlorobenzene	ND	μg/L	0.5	0.5	70		EPA 524.2 (TM)
46	I,1-Dichloroethylene	ND	μg/L	0,5	0,5	7		EPA 524.2 (TM)
56	Methylene Chloride	ND	µg/L	0.5	0.5	5	1	EPA 524.2 (TM)

TWISS ANALYTICAL LABORATORIES, INC.

26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370 Telephone (360) 779-5141 FAX (360) 779-5150

VOC - VOC1 VOC - VOC1 by Various EPA Approved Methods Source / Point of Entry - Report of Analysis

Date Coll	lected: 4/15/2010			Group:	ł	4		
System II	D No: 68700L			System Na	me: (Olympic W	ater And Sewer	
Lab - Sau				County:	J	efferson		
	-	1-		DOH Sour	-	501		
Sample L		ĸ						
Sample P	Purpose: I			Date Rece	ived: 4	/15/2010		
Sample C	Composition: S			Date Anal	yzed: 4	1/22/2010		
Send Rep	port To: Olympic Wa	ater And Sewer		Date Repo	rted: 4	1/23/2010		
r	781 Walker			Sample Ty		Post-treatm	ent/Finished	
	Port Ludlov	v, WA 98365		Collected	,		onox unonou	
					*	Greg Rae		
				Phone Nu:	mber: 3	360-4 37- 78	398 .	
				Bill To:			ater And Sewer	
						781 Walke		
]	Port Ludlo	w, WA 98365	
			I			L L COT L		
DOH#	Analyte	Results	Units	SRL	Trigger	MCL*	MCL	Method
	······································	·····	}		<u> </u>	<u></u>	Exceeded	(Analyst Init.)
PA Unre	gulated							
58	1,1-Dichloroethane	ND	µg/L	0.5	0.5			EPA 524.2 (TM)
59	2,2-Dichloropropan	e ND	це/L	0.5	0.5			EPA 524.2 (TM)
86	Bromochloromethar	ne ND	μg/L	0.5	0.5		[EPA 524.2 (TM)
62	1,1-Dichloropropen			0.5	0.5		ļ	EPA 524.2 (TM)
104	Dichlorodifluorometh	ane ND	<u></u>	0.5	0.5	530		EPA 524.2 (TM)
64	Dibromoethane	ND	⊥ug/L	0.5	0.5		<u> </u>	EPA 524.2 (TM)
65	Cis-1.3-Dichloroprop		<u> </u>	0.5	0.5			EPA 524.2 (TM)
	Trans-1,3-Dichloropro		ug/L	0.5	0,5		[EPA 524.2 (TM)
53	Chloromethane	ND	ug/L	0.5	0.5		 	EPA 524.2 (TM)
70	1.3-Dichloropropan	····	ug/L	0.5	0.5	<u> </u>		EPA 524.2 (TM)
72	1,1,1,2-Tetrachloroeth			0.5	0.5			EPA 524.2 (TM)
87	Isopropylbenzene		ug/L	0.5	0.5	21	1 1	EPA 524.2 (TM) EPA 524.2 (TM)
79	1,2,3-Trichloropropa		μg/L	0.5	0.5	21	<u>+</u> +-	EPA 524.2 (TM)
	Bromobenzene	ND ND	<u> </u>	0.5	0.5		1	EPA 524.2 (TM)
80	1,1,2,2-Tetrachloroeth	tane ND . ND	<u>μg/L</u> μg/L	0.5	0.5	1	1	EPA 524.2 (TM)
81 88	O-Chlorotoluene N-Propylbenzene		<u>με/L</u>	0.5	0.5	1	1 1	EPA-524.2 (TM)
89	1,3,5-Trimethylbenz		<u>μg/L</u>	0.5	0.5	<u></u>	++	EPA 524.2 (TM)
54	Bromomethane	ND	ug/L	0.5	0.5		1 	EPA 524.2 (TM)
82	P-Chlorotoluene	ND	μg/L	0.5	0.5	1	· · ·	EPA 524.2 (TM)
90	Tert-Butybenzene		μg/L	0.5	0.5			EPA 524.2 (TM)
91	1,2,4-Trimethylbenz		μg/L	0.5	0.5		1	EPA 524.2 (TM)
92	Sec-Butylbenzene		µg/L	0.5	0.5			EPA 524.2 (TM)
83	M-Dichlorobenzen		με/Ι.	0.5	0.5			EPA 524.2 (TM)
93	P-Isopropyltoluen		μg/L	0.5	0.5			EPA 524.2 (TM)
94	N-Butylbenzene		μg/L	0.5	0.5	1		EPA 524.2 (TM)
55	Chloroethane	ND	μg/L	0.5	0.5	<u> </u>	ļ	EPA 524.2 (TM)
. 97	Hexachlorobutadie	ne ND	μg/L	0.5	0.5	<u> </u> [EPA 524.2 (TM)
96	Naphthalene	ND	μg/L	0.5	0.5	<u> </u>	<u> </u>	EPA 524.2 (TM)
98	1,2,3-Trichlorobenz		μg/L	0.5	0.5			EPA <u>524.2 (TM)</u>
85	Trichlorofluorometh		µg/L	0.5	0.5		<u> </u>	EPA 524.2 (TM)
EPA Regi	ulated - Trihalomethanes P	rogram			-			
31	Total Trihalometha		μg/L		60	80		EPA 524.2 (TM)
27	Chloroform	ND	μg/L	0.5	0.5			EPA 524.2 (TM)
28	Bromodichlorometh		μ <u>ε</u> /L	0.5				EPA 524.2 (TM)
2.6								
28	Dibromochlorometh	ane ND	µg/L	1.5			1	EPA 524.2 (TM)

TWISS ANALYTICAL LABORATORIES, INC.

Telephone (360) 779-5141 FAX (360) 779-5150 26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370

VOC - VOC1 VOC - VOC1 by Various EPA Approved Methods Source / Point of Entry - Report of Analysis

DOH#		Analyte	Results	Units	SRL	Trigger		MCL	Method
					Bill To:		781 Walker	ater And Sewer Way w, WA 98365	2
					Phone Nur		360-437-78		
		Port Ludlow, WA 983	65		Collected I	Ву:	Greg Rae		·
L L		781 Walker Way			Sample Ty	pe:	Post-treatm	ent/Finished	
Send Repor	-	Olympic Water And S	ewer	ł	Date Report	rted:	4/23/2010		
Sample Con	-	S			Date Analy	zed:	4/22/2010		
Sample Pur		I			Date Recei	ved:	4/15/2010		
Sample Loc		Well #2 Sink			DOH Sour	ce No:	S01		
System ID N Lab - Sampl		68700L 01055901			County:		Jefferson		
Date Collect		4/15/2010			Group: System Na		A Olympic W	ater And Sewer	

(Not Analyzed), in the results column indicates this compound was not included in the current analysis. (Not Detected), in the results column indicates this compound was analyzed and not detected at a level greater than or equal to the SRL

ND; <(0.00x);

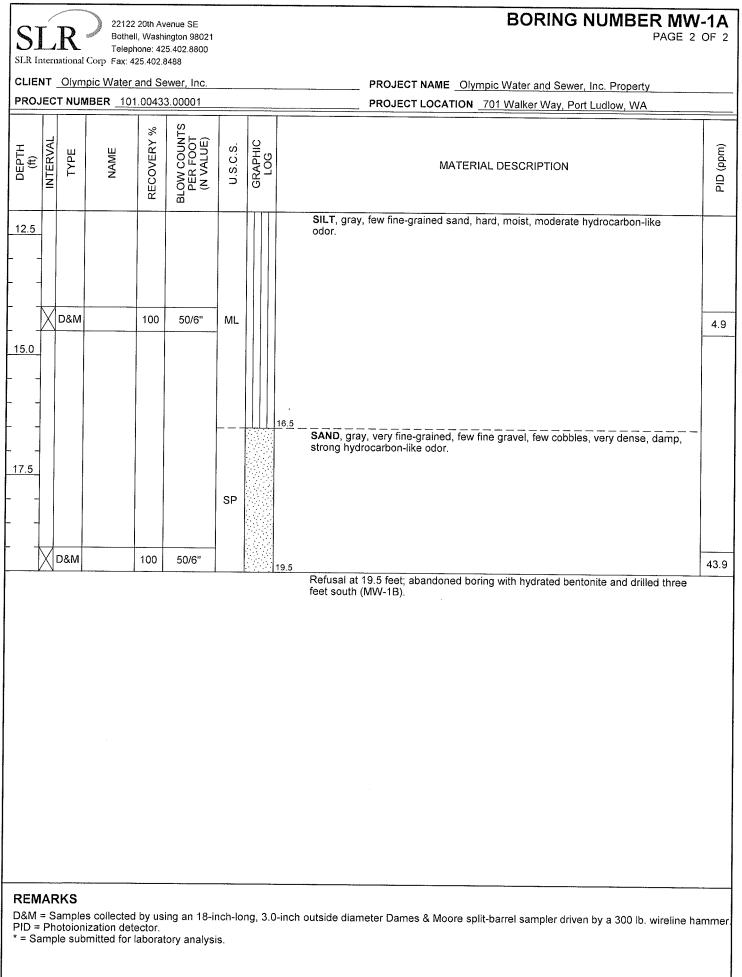
NA:

indicates the compound was not detected in the sample at or above the concentration indicated.

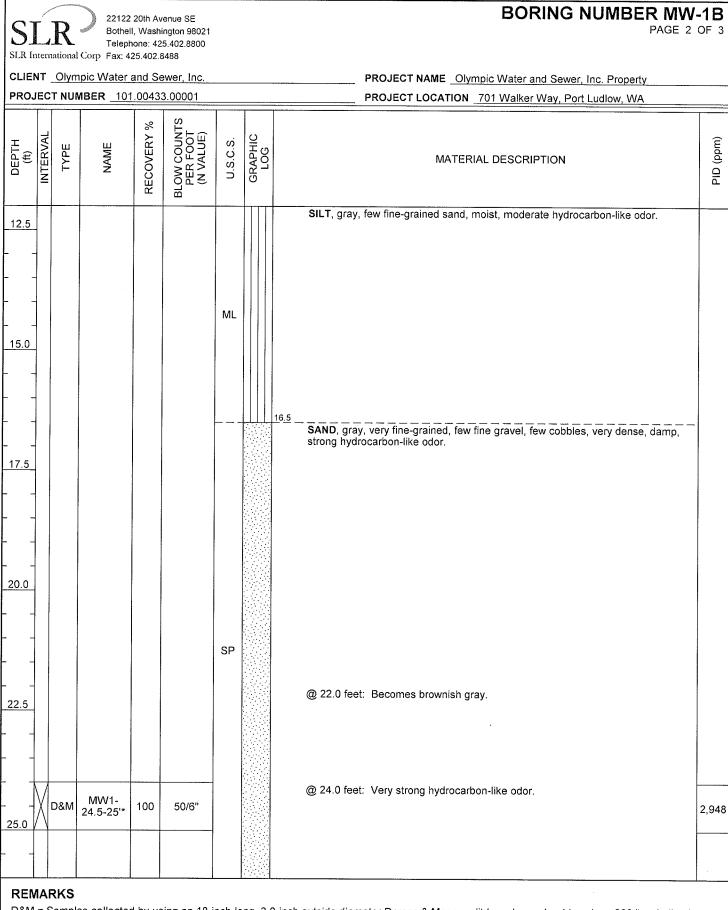
The 0,010 mg/L MCL for Arsenic is for Group A NTNC systems. All other systems should check with their county Health District to determine what level is applicable.

APPENDIX B SOIL BORING LOGS

SLE	Bothell	l, Washi Ione: 42	enue SE ngton 98021 5.402.8800			BORING NUMBER MW PAGE 1	
	lympic Water					PROJECT NAME _Olympic Water and Sewer, Inc. Property	
	UMBER 101					PROJECT LOCATION _701 Walker Way, Port Ludlow, WA	
					TED 4	14/10 GROUND ELEVATION HOLE SIZE 8.25-inch-diam	atar
						GROUND WATER LEVELS:	
	AETHOD Hol					AT TIME OF DRILLING	
						AT END OF	
NOTES						AFTER DRILLING	
Ľ Z	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	\$M	50	3	GP SP		SAND, brown, fine-grained, few fine gravel, very loose, moist, no hydrocarbon-like odors or staining.	0.1
	kM	100	50	SM		 SILTY SAND, brown, fine-grained, little silt, few fine gravel, very dense, moist to wet, slight hydrocarbon-like odor. @ 7.5 feet: Becomes wet, gray. @ 9.5 feet: Gravel becomes fine to coarse, paper debris in sampler. 	5.5
PID = Pho		tector.				-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline h	amme



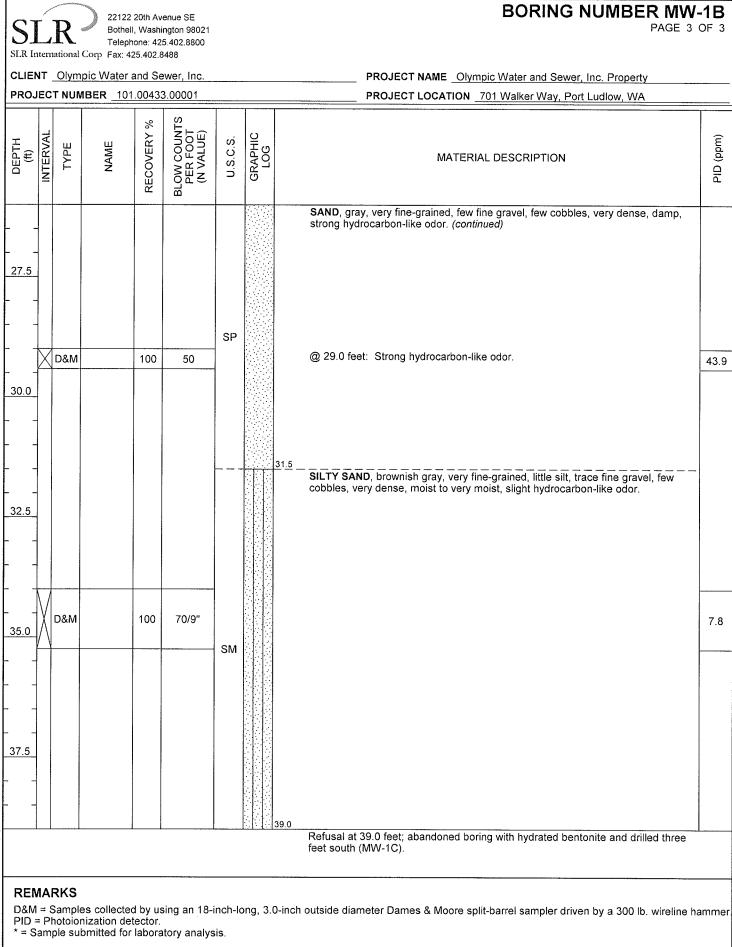
S R 🖉 Both	2 20th Avenue SE ell, Washington 98021 phone: 425.402.8800 475.402.848	BORING NUMBER MW-1B PAGE 1 OF 3
CLIENT Olympic Water		PROJECT NAME Olympic Water and Sewer, Inc. Property PROJECT LOCATION 701 Walker Way, Port Ludlow, WA
		/10 GROUND ELEVATION HOLE SIZE _8.25-inch-diameter
		GROUND WATER LEVELS:
DRILLING METHOD Ha	Have Observe Average	
	CHECKED BY	AT TIME OF DRILLING
NOTES		
		AFTER DRILLING
o DEPTH o (ft) INTERVAL TYPE NAME	RECOVERY % BLOW COUNTS PER FOOT (N VALUE) U.S.C.S. GRAPHIC LOG	MATERIAL DESCRIPTION
0.0		GRAVEL, crushed rock parking lot surface.
2.5	GP 00005 SP	SAND, brown, fine-grained, few fine gravel, moist, no hydrocarbon-like odors or staining.
7.5 10.0 REMARKS D&M = Samples collecte PID = Photoionization de * = Sample submitted for	etector.	h outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hamme



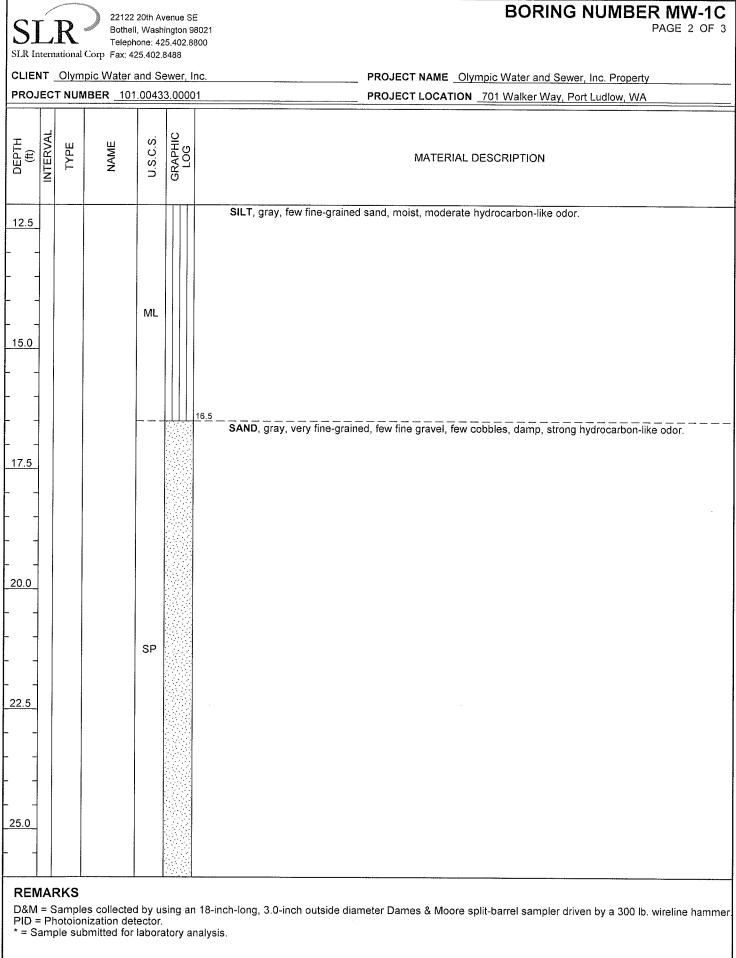
D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer. PID = Photoionization detector.

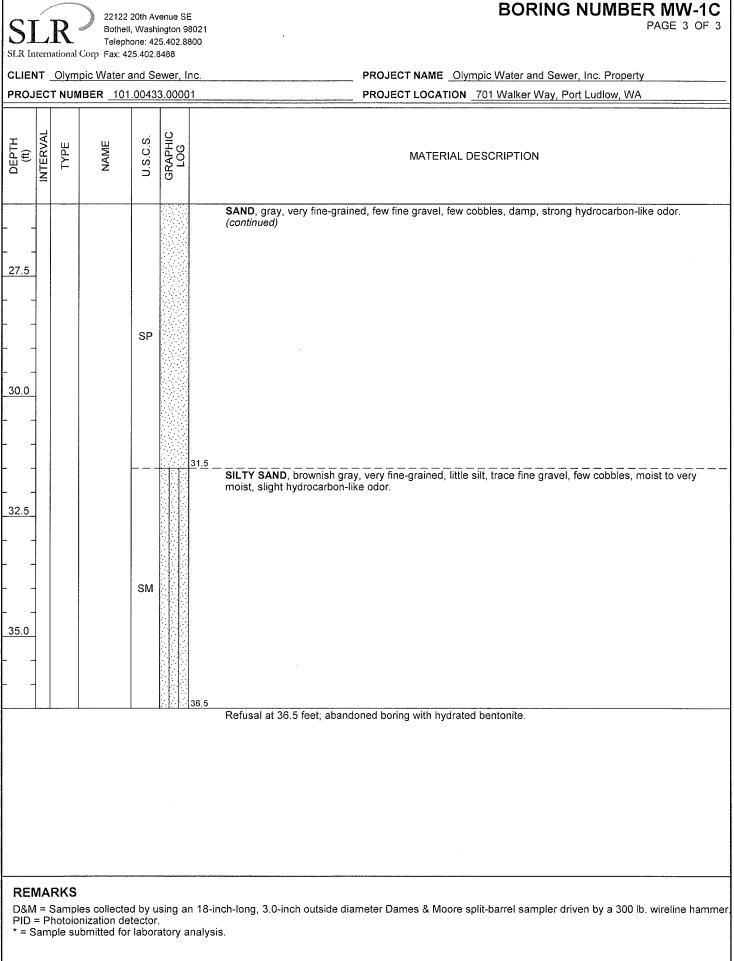
* = Sample submitted for laboratory analysis.

SLR GENERAL OWSI.GPJ GINT US.GDT 7/13/10



SLR International Corp Fax: 425.402.8488	BORING NUMBER MW-1C PAGE 1 OF 3
	PROJECT NAME _Olympic Water and Sewer, Inc. Property
PROJECT NUMBER101.00433.00001	PROJECT LOCATION _701 Walker Way, Port Ludlow, WA
DATE STARTED _4/14/10 COMPLETED _4/14	4/10 GROUND ELEVATION HOLE SIZE 8.25-inch-diameter
DRILLING CONTRACTOR Cascade Drilling	
	AT TIME OF DRILLING
LOGGED BY C Lee CHECKED BY	
NOTES	AFTER DRILLING
DEPTH (ft) INTERVAL TYPE NAME U.S.C.S. LOG LOG	MATERIAL DESCRIPTION
GP GRAVEL, cru	ushed rock parking lot surface.
	n, fine-grained, few fine gravel, moist, no odors or staining.
	, brown, fine-grained, little silt, few fine gravel, moist to wet, slight hydrocarbon-like odor.
<u>7.5</u> <u>10.0</u> <u>12.0</u>	, and , and granted, more any rest more granted, more to more single regulation with 00001.
REMARKS	nch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hamm





Bothell, Washi Telephone: 42	ngton 98021 5.402.8800			BORING NUMBER MW- PAGE 1 (
				PROJECT NAME Olympic Water and Sewer, Inc. Property	
4/14/10	CON	NPLE	TED _4	4/14/10 GROUND ELEVATION HOLE SIZE _8.25-inch-diame	eter
OD Hollow Ste	em Auger			AT TIME OF DRILLING	
Lee	CHE	CKE	ОВУ		
NAME RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0		SP		GRAVELLY SAND, brownish gray, fine-grained, little fine to medium gravel, moist, no hydrocarbon-like odors or staining. @ 5.0 feet: No sample recovery. 6.5 SANDY SILT, brownish gray, little very fine-grained sand, few fine to medium gravel, hard, moist to very moist, no hydrocarbon-like odors or staining.	
75	70/9"	ML			0
ation detector.			ong, 3.0	D-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline ha	ammer
	Collected by us collected by c	ER 101.00433.00001 4/14/10 COR RACTOR Cascade Drillin OD Hollow Stem Auger Lee CHE WW NOOJ HOLOOJ HOLOO	Bothell, Washington 98021 Telephone: 425.402.8800 PF Fax: 425.402.8488 C Water and Sewer, Inc. ER 101.00433.00001 4/14/10 COMPLE RACTOR Cascade Drilling DD Hollow Stem Auger Lee CHECKEI WWW 2000 WWW 2000 WWW 2000 CHECKEI CHECKEI SP 0 0 0 0 0 0 0 0 0 0 0 0 0	Bothell, Washington 98021 Telephone: 425.402.8800 app Fax: 425.402.8488 2 Water and Sewer, Inc. ER 101.00433.00001 4/14/10 COMPLETED 4 RACTOR Cascade Drilling DD Hollow Stem Auger Lee CHECKED BY WY ANDOLAYA BY ANDOLAYA BY ANDOLAYA CHECKED BY SP A A HOLOW Stem Auger Lee SAULTON AUGUST SP A SP A A HOLOW Stem Auger Lee SUPPORT AUGUST SP A A HOLOW Stem Auger Lee SUPPORT AUGUST SP A A HOLOW Stem Auger Lee SUPPORT AUGUST SP A SP A A HOLOW Stem Auger Lee SUPPORT AUGUST SP A A HOLOW Stem Auger Lee SUPPORT AUGUST A HOLOW Stem Auger A H	0 0 PAGE 1 1 Tempore 3622 PROJECT NAME Olympic Water and Sewer, Inc. Property PROJECT NAME Olympic Water and Sewer, Inc. Property EWater and Sewer, Inc. PROJECT LOCATION TO Water and Sewer, Inc. Property PROJECT LOCATION TO Water and Sewer, Inc. Property EWater and Sewer, Inc. PROJECT LOCATION TO Water and Sewer, Inc. Property PROJECT LOCATION TO Water Levels: 0 CAROWN Stem Auger AT TIME OF DRULING Lee CHECKED BY AT TIME OF DRULING Lee CHECKED BY AT TIME OF DRULING Value of the origin

S]	Ĺ	R	Bothel	l, Washi	enue SE ington 98021 5.402.8800			BORING NUMBER MM PAGE 2	
CLIEN	NT.	Olym	Corp Fax: 4 bic Water BER <u>101</u>	and Se	ewer, Inc.			PROJECT NAME Olympic Water and Sewer, Inc. Property PROJECT LOCATION 701 Walker Way, Port Ludlow, WA	
DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (pom)
12.5						ML.		12.5 SAND, gray, very fine-grained, few fine to coarse gravel, few cobbles, few	-
 								fines, very dense, damp, no hydrocarbon-like odors or staining.	
	X	D&M		100	50/2"				0
15.0									
17.5								@ 16.5 feet: Becomes very fine- to fine-grained, no medium or coarse gravel, moist.	
		D&M		100	50/6"	SP			0
20.0									
·									
22.5		-							
25.0	X	D&M		50	79				0
D&M PID =	= (= P	hotoior	nization de	tector.	sing an 18- atory analys		ong, 3	0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline	hamm

SLR In	tern	R	Bothel	l, Washi one: 42	enue SE ngton 98021 5.402.8800 488			BORING NUMBER MW- PAGE 3 0	
			pic Water a					PROJECT NAME _Olympic Water and Sewer, Inc. Property	
PROJ	EC	T NUN	IBER 101	.00433	3.00001			PROJECT LOCATION 701 Walker Way, Port Ludlow, WA	
DEPTH (ft)	INTERVAL	ТҮРЕ	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
 7.5 						SP		SAND, gray, very fine-grained, few fine to coarse gravel, few cobbles, few fines, very dense, damp, no hydrocarbon-like odors or staining. <i>(continued)</i>	
	М	D&M		100	50/6"			9.5 Refusal at 29.5 feet; abandoned boring with hydrated bentonite.	0
PID =	= S = Pł	Sample	nization de	tector.	sing an 18-i itory analys		ong, 3.0	-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline ha	mmer

		PROJECT NAME Olympic Water and Sewer, Inc. Property	
ROJECT NUMBER 101.00433.		PROJECT LOCATION _701 Walker Way, Port Ludlow, WA	
		GROUND ELEVATION 290.76 ft HOLE SIZE 8-inch- GROUND WATER LEVELS:	diameter
RILLING METHOD Air Rotary			
OGGED BY <u>C Lee</u>			
DTES		AFTER DRILLING	
G (ft) INTERVAL TYPE NAME RECOVERY %	BLOW COUNTS PER FOOT (N VALUE) U.S.C.S. GRAPHIC LOG		DIAGRAM
	SP		CONCRETI SURFACE SEAL HYDRATEL BENTONIT CHIPS BLANK PVC RISER



CLIENT Olympic Water and Sewer, Inc.

22122 20th Avenue SE Bothell, Washington 98021 Telephone: 425.402.8800

WELL NUMBER MW-1

PAGE 2 OF 5

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER _101.00433.00001 PROJECT LOCATION _701 Walker Way, Port Ludiow, WA BLOW COUNTS PER FOOT (N VALUE) RECOVERY % GRAPHIC LOG PID (ppm) INTERVAL U.S.C.S. DEPTH (ft) NAME ТҮРЕ MATERIAL DESCRIPTION WELL DIAGRAM SILT, gray, few fine-grained sand, moist, no 12.5 hydrocarbon-like odors or staining. 15.0 ML 0 17.5 18.0 272.8 SAND, gray, very fine-grained, few fine gravel, few cobbles, damp. 20.0 0 @ 20.0 feet: Few fine gravel. SP @ 22.0 feet: Moderate hydrocarbon-like odor 22.5 in cuttings. 25.0 0 REMARKS

SLR GENERAL OWSI.GPJ GINT US.GDT 7/13/10

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer. PID = Photoionization detector.

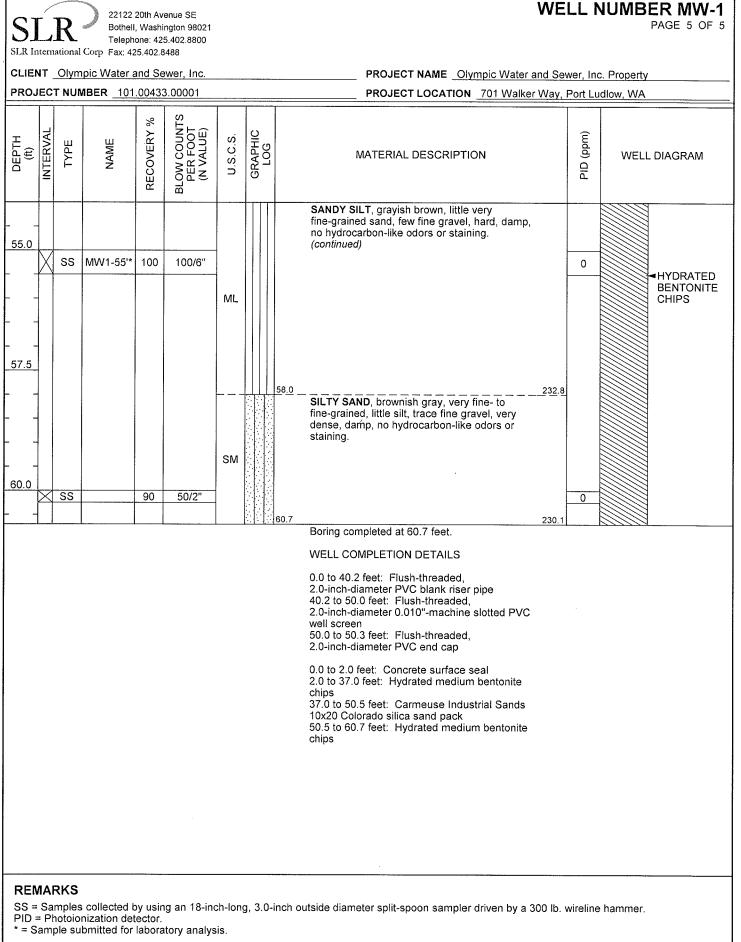
* = Sample submitted for laboratory analysis.

PROJECT NUN	IBER _101	.00433	3.00001		1	PROJECT LOCATION _701 Walker Way,	Port Lu	udlow, WA
DEPTH (ft) INTERVAL TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
				SP		5259.3 SILTY SAND, gravish brown, very fine- to fine-grained, little silt, few fine to medium gravel, few cobbles, very dense, moist, no hydrocarbon-like odors or staining.	0	

PID = Photoionization detector. * = Sample submitted for laboratory analysis.

S]	Ĺ	R	Bothell Teleph	, Washi one: 42	enue SE ngton 98021 5.402.8800				VVL	• Luy Luy 1		ER MW-1 PAGE 4 OF 5
			Corp Fax: 42						PROJECT NAME Olympic Water and Se	wer, In	ic. Property	
			MBER 101						PROJECT LOCATION _701 Walker Way,			
HL (t) (t) 40.0	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC	TOG	MATERIAL DESCRIPTION	PID (ppm)	WELL	. DIAGRAM
 	X	SS	MW1-40'*	100	50/4"	SM			SILTY SAND , grayish brown, very fine- to fine-grained, little silt, few fine to medium gravel, few cobbles, very dense, moist, no hydrocarbon-like odors or staining. <i>(continued)</i>	0		← 10x20 SILICA SAND PACK
<u>42.5</u> 45.0									IZ.5	3		
47.5	X	SS		75	44	ML				0		-0.010"-SLOTT PVC SCREEN
50.0									CLAYEY SILT, brown, little clay, few fine gravel, hard, damp, no hydrocarbon-like odors or staining.			
-	X	SS		100	100	ML				0		- PVC END CAP
52.5						ML			2.5			
PID =	Sa = Pł	mples	s collected b nization det bmitted for	ector.		ch-lon	g, 3	3.0-i	fine-grained sand, few fine gravel, hard, damp,	wireline	e hammer.	

REMARKS



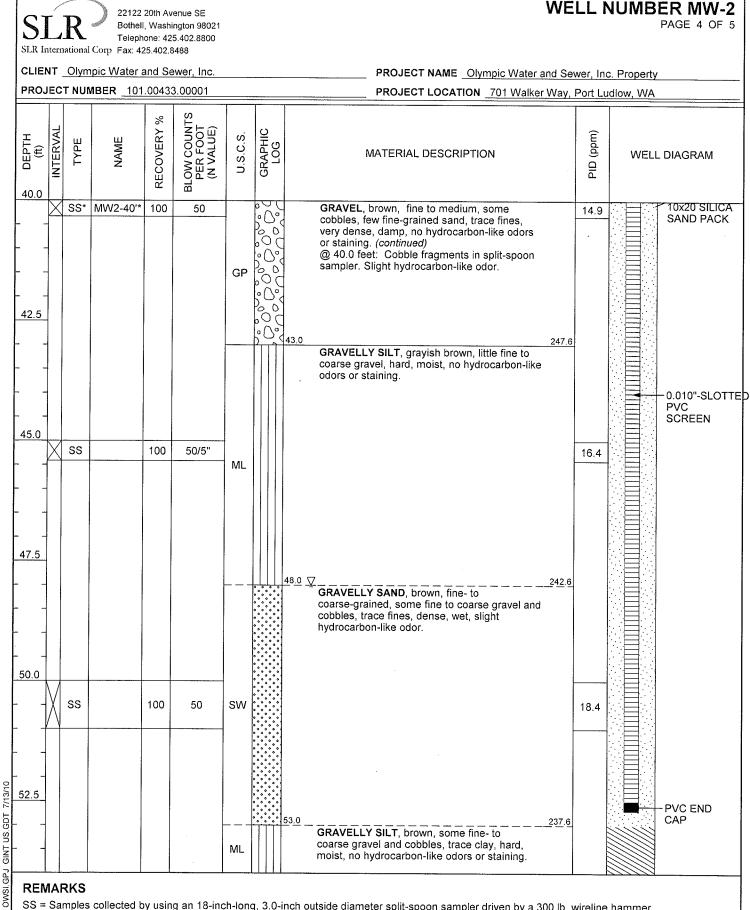
OWSI.GPJ GINT US.GDT 7/13/10 SLR GENERAL

IENT Olympic Water	25.402.8488 and Sewer, Inc.		PROJECT NAME Olympic Water ar	nd Sewer, In	c. Property
ROJECT NUMBER 10	1.00433.00001		PROJECT LOCATION 701 Walker	Way, Port Li	udlow, WA
ATE STARTED 6/8/10	COMPLET	ED _6/9/10	GROUND ELEVATION 290.56 ft	HOLE	SIZE 8-inch-diameter
RILLING CONTRACTOR	R Tacoma Pump & Dril	ing	GROUND WATER LEVELS:		
RILLING METHOD _Air	Rotary		_ $\overline{\Sigma}$ AT TIME OF DRILLING _48.0 f	ft / Elev 242.	6 ft
OGGED BY C Lee	CHECKE	вү	AT END OF		
DTES	······		AFTER DRILLING		
o (ft) INTERVAL TYPE NAME	RECOVERY % BLOW COUNTS PER FOOT (N VALUE) U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
5	GP	GRAVEL fine to m	, crushed rock parking lot surface. LY SAND, brown, fine-grained, little edium gravel, damp, no bon-like odors or staining.	290.3	- CONCRET SURFACE SEAL
0		fine-grain	SILT , brownish gray, little very ned sand, few fine to medium gravel, ist to very moist, no hydrocarbon-like	0 <u>284.1</u>	HYDRATE BENTONIT CHIPS
	ML			0	

CLIENT Olympic Water and Sewer, Inc. PROJECT NUMBER 101.00433.00001								PROJECT NAME Olympic Water and Sewer, Inc. Property PROJECT LOCATION _701 Walker Way, Port Ludlow, WA			
DEPTH (ft) INTERVAL	ТҮРЕ	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM		
					SP		12.5	0			

= Sample submitted for laboratory analysis.

	shington 98021 425.402.8800	WE	LL NUMBER MW-2 PAGE 3 OF 5
CLIENT Olympic Water and S	Sewer, Inc.	PROJECT NAME Olympic Water and Se	wer, Inc. Property
PROJECT NUMBER 101.004	33.00001	PROJECT LOCATION _701 Walker Way,	Port Ludlow, WA
DEPTH (ft) INTERVAL TYPE NAME RECOVERY %	BLOW COUNTS PER FOOT (N VALUE) U.S.C.S. GRAPHIC LOG	MATERIAL DESCRIPTION	
	GP	SAND, gray, very fine-grained, few fine to coarse gravel, few cobbles, few fines, very dense, damp, no hydrocarbon-like odors or staining. (continued) GRAVEL, brown, fine to medium, some cobbles, few fine-grained sand, trace fines, very dense, damp, no hydrocarbon-like odors or staining. @33.0 feet: Few silt, trace fine-grained sand. @37.0 feet: Becomes moist.	
PID = Photoionization detector * = Sample submitted for labor	r. ratory analysis.	outside diameter split-spoon sampler driven by a 300 lb.	wireline hammer.
$\overline{\mathcal{Y}}$ Water level at time of drilling	g.		



REMARKS

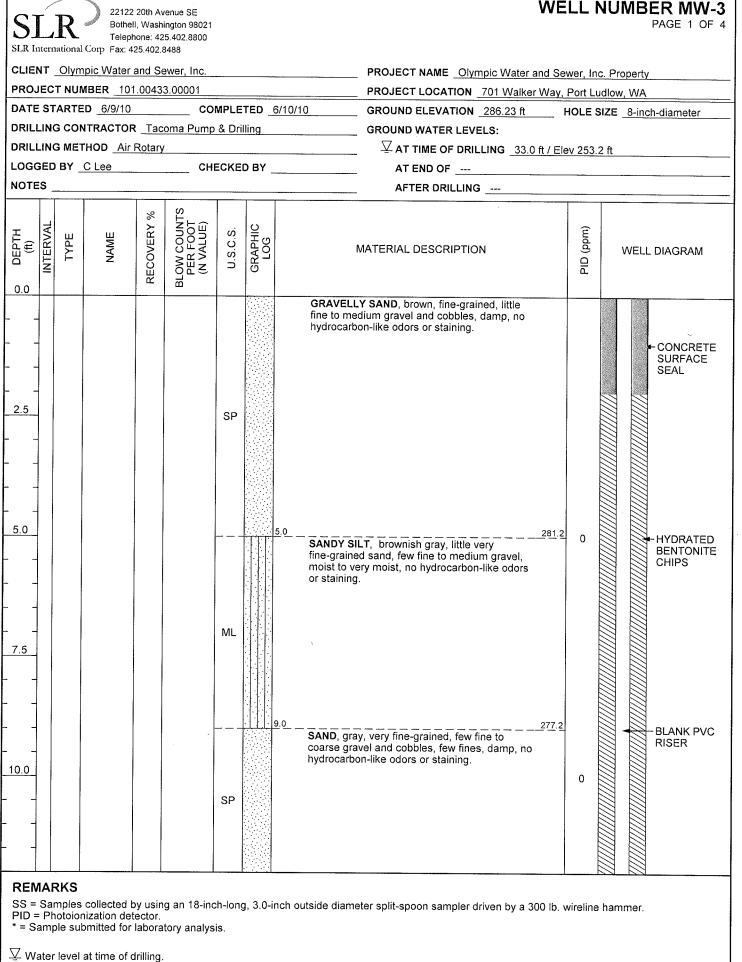
SLR GENERAL

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer. PID = Photoionization detector.

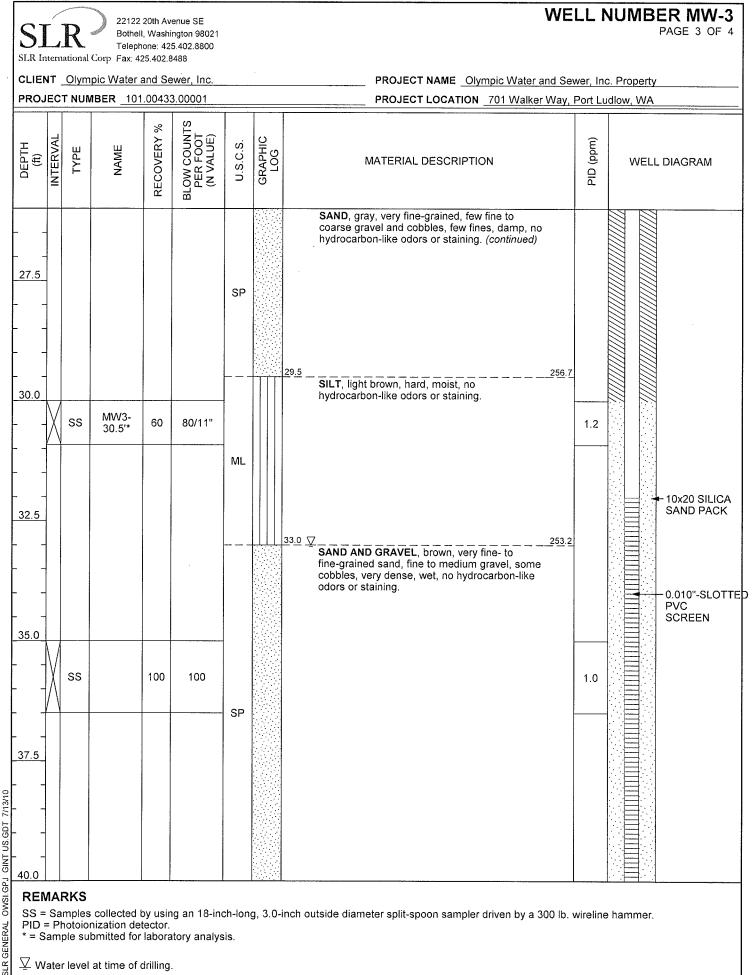
* = Sample submitted for laboratory analysis.

 \overline{V} Water level at time of drilling.

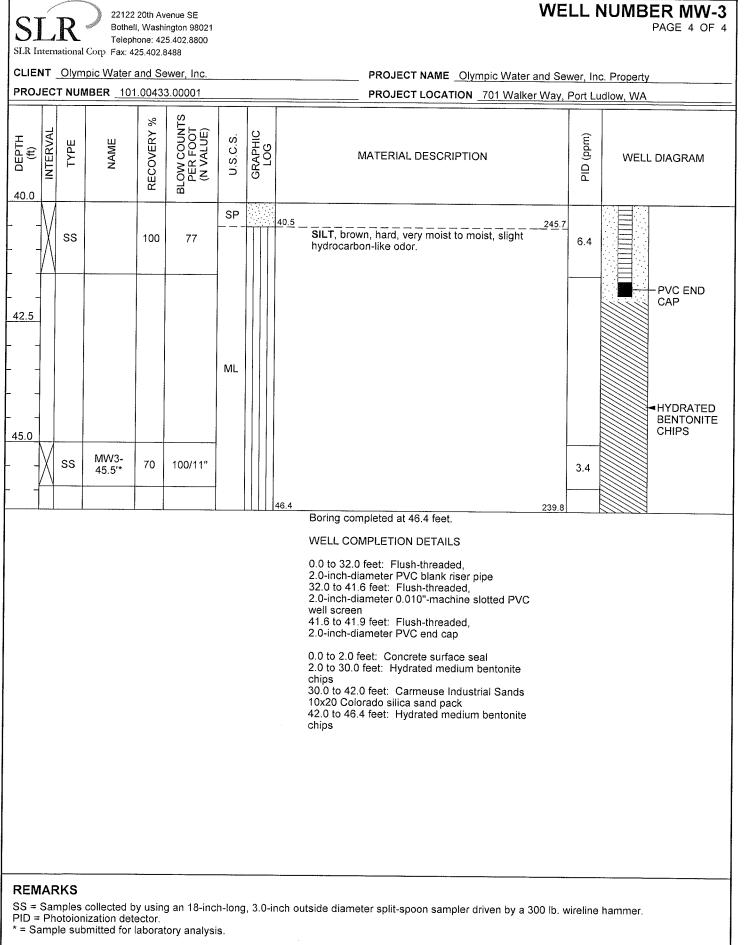
			bic Water BER 101					PROJECT NAME Olympic Water and S PROJECT LOCATION 701 Walker Way			
DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAG	RAM
- 55.0_		SS	MW2- 55.5'*	50	80/10"	ML		GRAVELLY SILT , brown, some fine- to coarse gravel and cobbles, trace clay, hard, moist, no hydrocarbon-like odors or staining. (<i>continued</i>)	0		RATEE TONIT ?S
				l		L	<u>↓_↓_</u>	56.3 234. Boring completed at 56.3 feet.	3		
								 WELL COMPLETION DETAILS 0.0 to 37.9 feet: Flush-threaded, 2.0-inch-diameter PVC blank riser pipe 37.9 to 52.5 feet: Flush-threaded, 2.0-inch-diameter 0.010"-machine slotted PVC well screen 52.5 to 52.7 feet: Flush-threaded, 2.0-inch-diameter PVC end cap 0.0 to 2.0 feet: Concrete surface seal 2.0 to 36.5 feet: Hydrated medium bentonite chips 36.5 to 53.0 feet: Carmeuse Industrial Sands 10x20 Colorado silica sand pack 53.0 to 56.3 feet: Hydrated medium bentonite chips 			
	IARI							nch outside diameter split-spoon sampler driven by a 300 lb.			



CLIENT <u>Olyr</u> PROJECT NU						PROJECT NAME Olympic Water and Sewer, Inc. Property PROJECT LOCATION _701 Walker Way, Port Ludlow, WA					PROJECT NAME Olympic Water and Sewer, Inc. Property PROJECT LOCATION 701 Walker Way, Port Ludlow, WA			
DEPTH (ft) INTERVAL TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM						
12.5 - - - - - - - - - - - - -				SP		SAND, gray, very fine-grained, few fines, damp, no hydrocarbon-like odors or staining. (continued)	0							



 ∇ Water level at time of drilling.

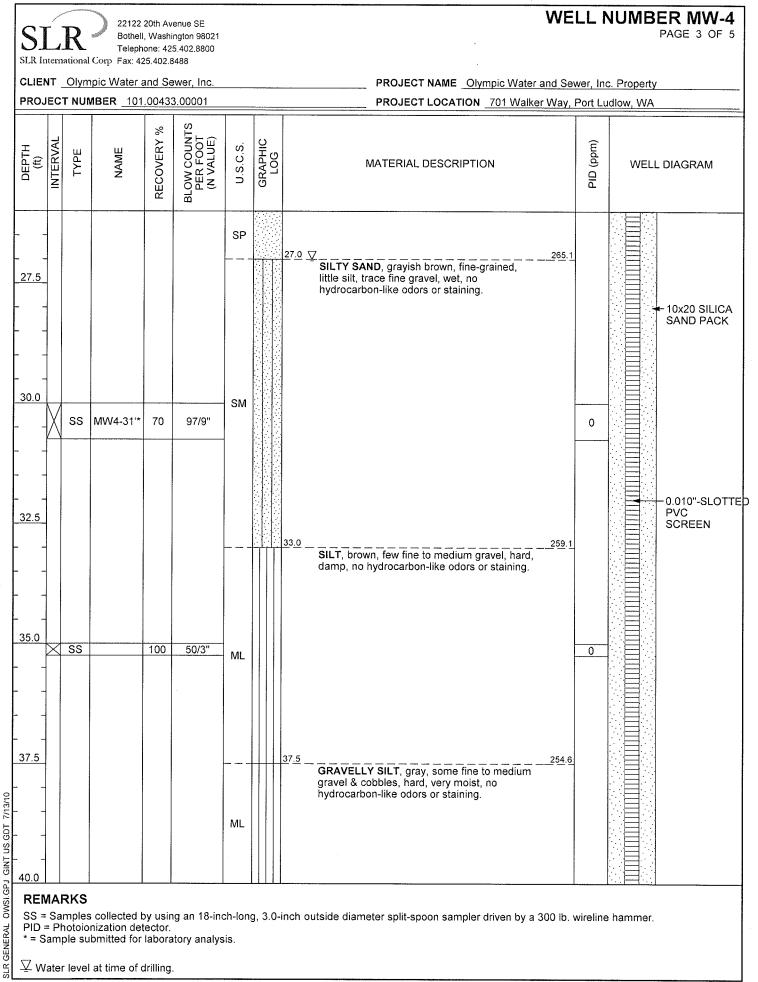


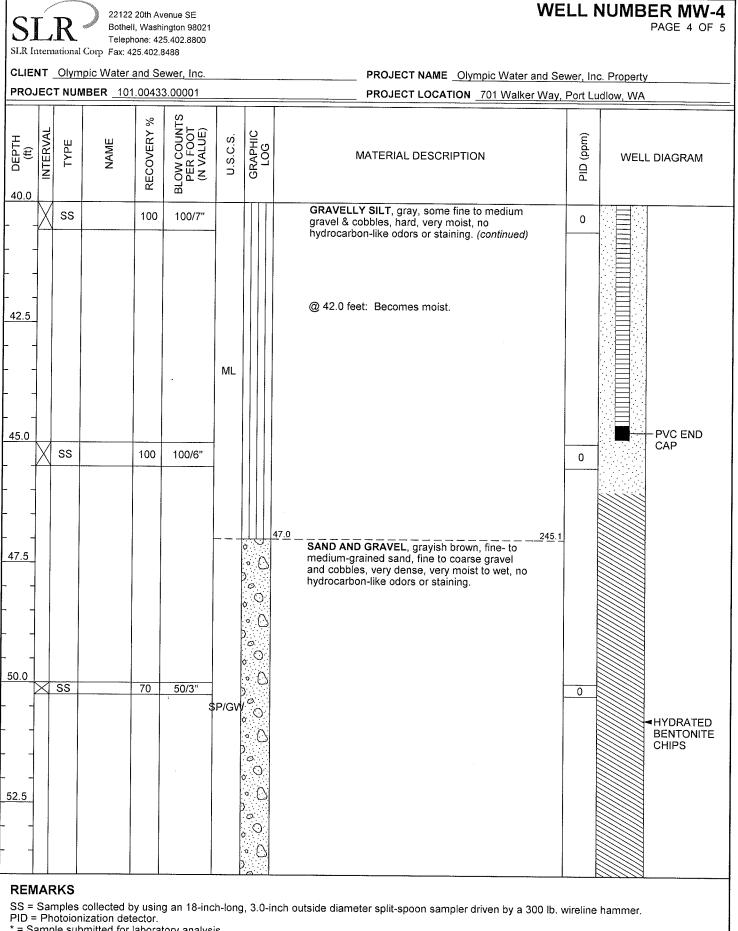
abla Water level at time of drilling.

SLR I	nteri	R	Bothel	, Washi one: 42	renue SE ington 98021 5.402.8800 3488			WI	ELL	PAGE 1 OF 5	
	CLIENT Olympic Water and Sewer, Inc.							PROJECT NAME Olympic Water and S	PROJECT NAME Olympic Water and Sewer, Inc. Property		
								PROJECT LOCATION _701 Walker Way			
								6/11/10 GROUND ELEVATION _292.07 ft	HOLE	SIZE 8-inch-diameter	
DRIL	LIN	G COI	TRACTOR	Tac	oma Pump	& Dri	lling	GROUND WATER LEVELS:			
								AT TIME OF DRILLING _27.0 ft / E			
								AT END OF			
NOTE	ES _				1	1		AFTER DRILLING			
o DEPTH (ft)	INTERVAL	ТҮРЕ	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM	
0.0					·			0.3 ASPHALT. 291	8		
<u>- 2.5</u> 5.0 7.5						SP		4.0 288. GRAVELLY SAND, brown, fine-grained, few fine gravel, damp, no hydrocarbon-like odors or staining. 4.0 288. GRAVELLY SAND, brown, fine-grained, some fine to medium gravel and cobbles, trace fines, damp, no hydrocarbon-like odors or staining.		- CONCRETE SURFACE SEAL - - HYDRATED BENTONITE CHIPS BLANK PVC	
SS =	- Sa	RKS mples	collected b	ector	g an 18-inc	ch-lon	g, 3.0-	nch outside diameter split-spoon sampler driven by a 300 lb	0 wireline	RISER	
* = S	am	ple su	at time of c	labora	tory analys	is.					

CLIENT Olympic Water and Sewer, Inc. PROJECT NUMBER 101.00433.00001							PROJECT NAME Olympic Water and Se PROJECT LOCATION _701 Walker Way		
DEPTH (ft) INTERVAL	ТҮРЕ	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
					SP		GRAVELLY SAND, brown, fine-grained, some fine to medium gravel and cobbles, trace fines, damp, no hydrocarbon-like odors or staining. (continued)	0	

* = Sample submitted for laboratory analysis.





* = Sample submitted for laboratory analysis.

abla Water level at time of drilling.

OWSI.GPJ GINT US.GDT 7/13/10

SLR GENERAL

SLR I	L	R	Bothell,	Washi one: 42	enue SE ngton 98021 5.402.8800 488					WEL	_L N	PAGE 5 OF 5
			pic Water a						PROJECT NAME _Olympic Water ar	nd Sew	er, Inc	c. Property
			IBER 101.						PROJECT LOCATION _701 Walker \			
DEPTH (ft)	INTERVAL	ТҮРЕ	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG		MATERIAL DESCRIPTION		PID (ppm)	WELL DIAGRAM
55.0	X	SS	MW4-55'*	70	50/6"	SP/GV ML		54.5	GRAVELLY SILT, gray, little fine to coarse gravel, hard, damp, no hydrocarbon-like odors or staining. Boring completed at 55.5 feet.	237.6	0	
	55.0 gravel, hard, damp, no hydrocarbon-like odors SS MW4-55'* 70 50/6" ML gravel, hard, damp, no hydrocarbon-like odors 0											
SS = PID * = S	= Sa = Pl Sam	notoio ple su	s collected b nization det bmitted for at time of c	ector. Iabora	itory analys		g, 3.0	-inch c	outside diameter split-spoon sampler driven by a 30	00 lb. w	vireline	ə hammer.

APPENDIX C LABORATORY REPORTS

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 28, 2010

Mike Staton, Project Manager SLR International Corp. 22118 20th Ave. SE. G-202 Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on April 15, 2010 from the Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160 project. There are 13 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SLR0428R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 15, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	<u>SLR International Corp.</u>
004160-01	MW1-24.5-25
004160-02	MW1-35-35.5

Sample MW1-24.5-25 was sent to Fremont Analytical for VPH analysis. The report generated by AR will be forwarded to your office upon receipt.

1

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/10 Date Received: 04/15/10 Project: Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160 Date Extracted: 04/20/10 Date Analyzed: 04/20/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery</u>) (Limit 58-139)
MW1-24.5-25 004160-01 1/10	140	ip
Method Blank 00-0572 MB	<2	115

2

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW1-24.5-25 04/15/10 04/21/10 04/22/10 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. 101.00433.00001, F&BI 004160 004160-01 004160-01.019 ICPMS1 AP
Internal Standard: Holmium	% Recovery: 98	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Lead	1.11		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	NA	Project:	101.00433.00001, F&BI 004160
Date Extracted:	04/21/10	Lab ID:	I0-200 mb
Date Analyzed:	04/22/10	Data File:	I0-200 mb.017
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
		Lower	Upper
Internal Standard:	% Recovery:	Limit:	Limit:
Holmium	98	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Lead	<1		

4

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

< 0.005

1,2-Dibromoethane (EDB)

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW1-24.5-25 04/15/10 04/21/10 04/21/10 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. 101.00433.00001, F&BI 004160 004160-01 042116.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	% Recovery: 52 52 100	Lower Limit: 50 50 50	Upper Limit: 150 150 150
Compounds:		Concentration mg/kg (ppm)		

٢	h

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

< 0.005

1,2-Dibromoethane (EDB)

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 04/21/10 04/21/10 Soil mg/kg (ppn	able	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. 101.00433.00001, F&BI 004160 00552 mb 042114.D GCMS5 MB
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	96	50	150
Toluene-d8		102	50	150
4-Bromofluorobenz	zene	122	50	150
Compounds:		Concentration mg/kg (ppm)		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW1-24.5- 04/15/10 04/19/10 04/21/10 Soil mg/kg (ppn		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. 101.00433.00001, F&BI 004160 004160-01 042107.D GCMS4 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 95 101 101	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		Concentration mg/kg (ppm)		
Hexane Methyl t-butyl eth 1,2-Dibromoethane 1,2-Dichloroethane Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene	e (EDB)	$\begin{array}{c} 0.96 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ 0.49 \\ 5.7 \\ 1.2 \\ 4.8 \\ 1.9 \\ 0.58 \end{array}$		

7

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 04/19/10 04/19/10 Soil mg/kg (ppn	able	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. 101.00433.00001, F&BI 004160 00544 mb 041905.D GCMS4 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 88 88 93	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		Concentration mg/kg (ppm)		
Hexane Methyl t-butyl eth 1,2-Dibromoethane 1,2-Dichloroethane Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene	e (EDB)	<0.25 <0.05 <0.05 <0.03 <0.03 <0.05 <0.05 <0.1 <0.05 <0.05		·

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/10 Date Received: 04/15/10 Project: Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

9

Laboratory Code:	004141-02 (Duplic	cate)		
-	-	(Wet Wt)	(Wet Wt)	Relative Percent
	Reporting	Sample	Duplicate	Difference
Analyte	Units	Result	Result	(Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Gasoline	mg/kg (ppm)	20	95	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/10 Date Received: 04/15/10 Project: Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 004199-08 (Matrix Spike) Percent Percent Reporting Spike Sample Recovery Recovery Acceptance RPD Units Level Result Criteria Analyte MS MSD (Limit 20) Lead 20 9.43 100 b 94 b 65-126 6 mg/kg (ppm)

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Lead	mg/kg (ppm)	20	95	81-120

Date of Report: 04/28/10 Date Received: 04/15/10 Project: Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
1,2-Dibromoethane (EDB)	mg/kg (ppm)	0.05	92	92	70-130	0

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/10 Date Received: 04/15/10 Project: Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 004182-09 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Hexane	mg/kg (ppm)	2.5	<0.25	99	10-137
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	< 0.05	127	36-145
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	< 0.05	144	28-154
Benzene	mg/kg (ppm)	2.5	< 0.03	93	43-130
Toluene	mg/kg (ppm)	2.5	< 0.05	92	36-143
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	< 0.05	106	41-134
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	105	39-141
m,p-Xylene	mg/kg (ppm)	5	< 0.1	101	37-143
o-Xylene	mg/kg (ppm)	2.5	< 0.05	102	47-124
Naphthalene	mg/kg (ppm)	2.5	< 0.05	121	32-134

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Hexane	mg/kg (ppm)	2.5	90	84	43-142	7
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	111	114	63-121	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	108	110	74-122	2
Benzene	mg/kg (ppm)	2.5	92	89	72-121	3
Toluene	mg/kg (ppm)	2.5	94	90	66-126	4
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	101	103	74-132	2
Ethylbenzene	mg/kg (ppm)	2.5	99	96	64-123	3
m,p-Xylene	mg/kg (ppm)	5	96	93	78-122	3
o-Xylene	mg/kg (ppm)	2.5	97	94	77-124	3
Naphthalene	mg/kg (ppm)	2.5	114	116	60-125	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

 $\rm nm$ - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

 $\ensuremath{\mathsf{pr}}$ – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

04-15-10 Nov/Cp/	Page # / of /	0 Ste D RU Rush	SAMPLE DISPOSAL	Π Return samplos Π Will call with instructions	STED	Notes Notes	X X X-20- MS	× 19/10 mr	* caneled & HS	4/20/10 M2	0/23/10	<i>м</i>	Samples received at 2 °C	COMPANN DATE TIME COMPANN DATE TIME Zer 4-15-10 1417 Let 4-15-10 1417 BT 4/15-10 1522
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004100			City, State, ZIP Conten	Phone # (495)403 - \$800 Fax # (475) 403 - \$488		Sample I[]	52-545-1MW	MW135-355						Friedman & Bruya, Inc. 3012 16th. Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044 Fox (206) 283-5044



2930 Westlake Ave N Suite 100 Seattle, WA 98109 T: (206) 352-3790 F: (206) 352-7178 info@fremontanalytical.com

Friedman and Bruya, Inc. Attn: Michael Erdahl 3012 16th Ave W. Seattle, WA 98119

RE: 004160 Fremont Project No: CHM100426-4 Friedman and Bruya Project No: A-390

May 3rd, 2010

Michael:

Enclosed are the analytical results for the *004160* soil sample (Sample ID: MW1-24.5-25) submitted to Fremont Analytical on April 26th, 2010.

Examination of this sample was conducted for the presence of the following:

• Volatile Petroleum Hydrocarbons (VPH) in Soil by NWVPH

This application was performed under Washington State Department of Ecology accreditation parameters. All appropriate Quality Assurance / Quality Control method parameters have been applied.

Laboratory Notations: The relative percent difference (RPD%) between the sample and sample duplicate exceeded control limits for the following: Naphthalene and C12-C13 (PID) Aromatics. All other RPD% values were in control.

Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical!

Sincerely,

6p

Michael Dee Sr. Chemist / Principal mikedee@fremontanalytical.com

www.fremontanalytical.com



T: 206.352.3790 F: 206.352.7178 email: info@fremontanalytical.com

Analysis of Volatile Petroleum Hydrocarbons in Soil by NWVPH

Project: 004160 Client: Friedman and Bruya, Inc. Client Project #: A-390 Lab Project #: CHM100426-4

• • • • • • • • • • • • • • • • • • •			•			Duplicate	
NWVPH	MRL	Method	LCS	LCD	MW1-24.5-25	MW1-24.5-25	RPD
(mg/kg)		Blank					%
Date Preserved					4/26/10	4/26/10	
Date Analyzed		5/2/10	5/2/10	5/2/10	5/2/10	5/2/10	
Matrix					Soil	Soil	
Targeted Analytes							
methyl tert-butyl ether (MTBE)	0.05	nd	98%	101%	nd	nd	
Benzene	0.05	nd	101%	104%	0.34	0.38	10%
Toluene	0.05	nd	101%	103%	1.4	1.6	10%
Ethylbenzene	0.05	nd	105%	103%	0.12	0.12	4%
m,p-Xylenes	0.05	nd	102%	107%	0.50	0.52	4%
o-Xylenes	0.05	nd	101%	104%	0.24	0.22	9%
Naphthalene	0.05	nd	96%	119%	0.34	0.14	86%
Hydrocarbon Parameters							
C5-C6 (FID) Aliphatics*	0.05	nd			nd	nd	
C6-C8 (FID) Aliphatics*	0.05	nd			2.4	2.6	8%
C8-C10 (FID) Aliphatics*	0.05	nd			3.1	3.3	6%
C10-C12 (FID) Aliphatics*	0.05	nd			1.9	1.7	11%
C8-C10 (PID) Aromatics	0.05	nd			1.4	1.4	0%
C10-C12 (PID) Aromatics	0.05	nd			0.60	0.60	0%
C12-C13 (PID) Aromatics	0.05	nd			0.43	0.85	66%
Surrogate Recovery					· · · · · · · · · · · · · · · · · · ·	······································	
Triflourotoluene		101%	114%	116%	110%	116%	
Bromoflourobenzene		95%	103%	101%	95%	94%	

"nd" Indicates not detected at listed reporting limits

"int" Indicates that interference prevents determination

"*" Excludes MTBE and BTEX Compounds

"J" Indicates estimated value

"MRL" Indicates Method Reporting Limit "LCS" Indicates Laboratory Control Sample

"RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

Surrogate = 65% to 135%

LCS, LCSD = 65% to 135% Surrogate Concentration = 0.25 mg/kg

Spike Concentration = 5.0 mg/kg

CONFIDENTIAL

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James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 28, 2010

Mike Staton, Project Manager SLR International Corp. 22118 20th Ave. SE. G-202 Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 9, 2010 from the Olympic Water & Sewer, Inc. PO101.00433.00001, F&BI 006107 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SLR0628R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 9, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. Olympic Water & Sewer, Inc. PO101.00433.00001, F&BI 006107 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
006107-01	MW1-40'
006107-02	MW1-55'
006107-03	MW1-60'

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/10 Date Received: 06/09/10 Project: Olympic Water & Sewer, Inc. PO101.00433.00001, F&BI 006107 Date Extracted: 06/09/10 Date Analyzed: 06/09/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Gasoline Range	Surrogate (<u>% Recovery</u>) (Limit 58-139)
MW1-40' 006107-01	<2	96
MW1-55' 006107-02	<2	. 84
Method Blank 00-0848 MB2	<2	110

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW1-40' 06/09/10 06/10/10 06/11/10 Soil mg/kg (ppt	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water & Sewer, Inc. F&BI 006107 006107-01 061029.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluoroben:		% Recovery: 117 123 130	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene		<0.03 <0.05 <0.05 <0.1 <0.05 <0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW1-55' 06/09/10 06/10/10 06/11/10 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water & Sewer, Inc. F&BI 006107 006107-02 061030.D GCMS5 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	108	42	152
Toluene-d8		120	36	149
4-Bromofluorobenz	zene	129	50	150
Compounds:		Concentration mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		· · · ·
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank NA 06/10/10 06/10/10 Soil mg/kg (ppm)	ς	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water & Sewer, Inc. F&BI 006107 00731 mb 061019.D GCMS5 VM
			Lower	Upper
Surrogates:	- C	% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	104	42	152
Toluene-d8		112	36	149
4-Bromofluorobenz	zene	122	50	150
Compounds:		oncentration ng/kg (ppm)		
Benzene		< 0.03		
Toluene		<0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		<0.05		
Naphthalene		<0.05		

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/10 Date Received: 06/09/10 Project: Olympic Water & Sewer, Inc. PO101.00433.00001, F&BI 006107

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code:	006092-02 (Duplie	cate)		
		(Wet Wt)	(Wet Wt)	Relative Percent
	Reporting	Sample	Duplicate	Difference
Analyte	Units	Result	Result	(Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Gasoline	mg/kg (ppm)	10	110	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/10 Date Received: 06/09/10 Project: Olympic Water & Sewer, Inc. PO101.00433.00001, F&BI 006107

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 006092-01 (Matrix Spike)

	1			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Benzene	mg/kg (ppm)	2.5	< 0.03	84	58-129
Toluene	mg/kg (ppm)	2.5	< 0.05	86	56-136
Ethylbenzene	mg/kg (ppm)	2.5	< 0.05	- 84	62-129
m,p-Xylene	mg/kg (ppm)	5	< 0.1	85	60-132
o-Xylene	mg/kg (ppm)	2.5	< 0.05	83	56-139
Naphthalene	mg/kg (ppm)	2.5	< 0.05	71	35-174

.	ľ		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benzene	mg/kg (ppm)	2.5	97	99	73-115	2
Toluene	mg/kg (ppm)	2.5	99	99	75-117	0
Ethylbenzene	mg/kg (ppm)	2.5	97	99	74-122	2
m,p-Xylene	mg/kg (ppm)	5	100	102	78 -114	2
o-Xylene	mg/kg (ppm)	2.5	97	98	81-116	1
Naphthalene	mg/kg (ppm)	2.5	97	98	70-122	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\rm ip$ - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

 $\ensuremath{\text{pr}}$ – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 29, 2010

Mike Staton, Project Manager SLR International Corp. 22118 20th Ave. SE. G-202 Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 10, 2010 from the Olympic Water and Sewer, Inc (OWSI) 101.00433.00001, F&BI 006126 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SLR0629R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 10, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. Olympic Water and Sewer, Inc (OWSI) 101.00433.00001, F&BI 006126 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
006126-01	MW2-40'
006126-02	MW2-55.5'
006126-03	MW3-30.5'

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10 Date Received: 06/10/10 Project: Olympic Water and Sewer, Inc (OWSI) 101.00433.00001, F&BI 006126 Date Extracted: 06/11/10 Date Analyzed: 06/11/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Gasoline Range	Surrogate (<u>% Recovery</u>) (Limit 50-150)
MW2-40' 006126-01	2.9	81
MW2-55.5' 006126-02	<2	82
MW3-30.5' 006126-03	<2	74
Method Blank 00-0851 MB	<2	84

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW2-40' 06/10/10 06/15/10 06/15/10 Soil mg/kg (ppn	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water and Sewer 006126-01 061510.D GCMS5 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	106	42	152
Toluene-d8		108	36	149
4-Bromofluorobenz	zene	114	50	150
Compounds:		Concentration mg/kg (ppm)		
Benzene		0.21		
Toluene		0.062		
Ethylbenzene		0.11		
m,p-Xylene		< 0.1		
o-Xylene		0.066		
Naphthalene		<0.05		

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW2-55.5' 06/10/10 06/15/10 06/15/10 Soil mg/kg (ppn	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water and Sewer 006126-02 061511.D GCMS5 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	114	42	152
Toluene-d8		117	36	149
4-Bromofluorobena	zene	124	50	150
Commenter		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		0.21		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m.p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

Analysis For Volatile Compounds By EPA Method 8260C

Naphthalene

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW3-30.5' 06/10/10 06/15/10 06/15/10 Soil mg/kg (ppr	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water and Sewer 006126-03 061512.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluoroben:		% Recovery: 95 96 105	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene		<0.03 <0.05 <0.05 <0.1 <0.05		

< 0.05

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blan Not Applica 06/15/10 06/15/10 Soil mg/kg (ppm	ble	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water and Sewer 00734 mb 061509.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluoroben:		% Recovery: 109 114 116	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene		<0.03 <0.05 <0.05 <0.1 <0.05 <0.05		

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10 Date Received: 06/10/10 Project: Olympic Water and Sewer, Inc (OWSI) 101.00433.00001, F&BI 006126

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 006126-03 (Duplicate)							
-		(Wet W	, (et Wt)	Relative Percent	t	
	Reporting	Sample	e Dup	olicate	Difference		
Analyte	Units	Result	t Re	sult	(Limit 20)		
Gasoline	mg/kg (ppm)	<2 <2		<2	nm		
Laboratory Code:	boratory Code: Laboratory Control Sample						
			Percent	Percent			
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD	
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)	
Gasoline	mg/kg (ppm)	20	118	124	71-131	5	

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10 Date Received: 06/10/10 Project: Olympic Water and Sewer, Inc (OWSI) 101.00433.00001, F&BI 006126

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 006122-02 (Matrix Spike)

	•			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Benzene	mg/kg (ppm)	2.5	< 0.03	72	58-129
Toluene	mg/kg (ppm)	2.5	< 0.05	75	56-136
Ethylbenzene	mg/kg (ppm)	2.5	< 0.05	77	62-129
m,p-Xylene	mg/kg (ppm)	5	<0.1	79	60-132
o-Xylene	mg/kg (ppm)	2.5	< 0.05	78	56-139
Naphthalene	mg/kg (ppm)	2.5	< 0.05	79	35-174

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benzene	mg/kg (ppm)	2.5	100	105	73-115	5
Toluene	mg/kg (ppm)	2.5	101	105	75-117	4
Ethylbenzene	mg/kg (ppm)	2.5	98	102	74-122	4
m,p-Xylene	mg/kg (ppm)	5	102	107	78-114	5
o-Xylene	mg/kg (ppm)	2.5	99	102	81-116	3
Naphthalene	mg/kg (ppm)	2.5	102	104	70-122	2

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

 $\ensuremath{\text{dv}}$ - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

0//0 VS/ CZ Page # of TURNAROUND TIME X Standard (2 Weeks) 3 RUSH RUSH Rush charges authorized by: SAMPLE DISPOSAL 1 Dispose after 30 days C Return samples Kuill call with instructions	SSTED (12210 Notes m. Notes m. Notes m. Notes m.	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
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006 [26 Send Report To (5 МИКЕ STATON Company SUN Address 22118 20TH AE SE, G-202 City, State, ZIP (3071121, WA 98031 City, State, ZIP (3071121, WA 98031 Phone # (475) 403 - 8800 Fax # (495) 403 - 8488	Sample ID MW2 - 40' MW3 - 55, 55' MW3 - 30. 5	Friedman & Bruya, Inc. Bruya, Inc. 3012 16th Avenue West Ru Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044 Fax (206) 283-5044 FORMS\COC\COC.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 29, 2010

Mike Staton, Project Manager SLR International Corp. 22118 20th Ave. SE. G-202 Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 11, 2010 from the Olympic Water and Sewer 101.00433.00001, F&BI 006145 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SLR0629R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 11, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. Olympic Water and Sewer 101.00433.00001, F&BI 006145 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
006145-01	MW3-45.5
006145-02	MW4-31
006145-03	MW4-35

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10 Date Received: 06/11/10 Project: Olympic Water and Sewer 101.00433.00001, F&BI 006145 Date Extracted: 06/15/10 and 06/17/10 Date Analyzed: 06/15/10 and 06/17/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Gasoline Range	Surrogate (<u>% Recovery</u>) (Limit 58-139)
MW3-45.5 006145-01	<2	77
MW4-31 006145-02	<2	61
Method Blank 00-0852 MB	<2	90
Method Blank 00-0856 MB	<2	90

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW3-45.5 06/11/10 06/15/10 06/15/10 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water and Sewer 101.00433.00001 006145-01 061513.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 94 95 103	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene		0.036 <0.05 <0.05 <0.1 <0.05 <0.05		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW4-31 06/11/10 06/17/10 06/17/10 Soil mg/kg (ppn	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water and Sewer 101.00433.00001 006145-02 061717.D GCMS4 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 88 84 88	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		Concentration mg/kg (ppm)		
Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene		<0.03 <0.05 <0.05 <0.1 <0.05 <0.05		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 06/15/10 06/15/10 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water and Sewer 101.00433.00001 00734 mb 061509.D GCMS5 VM
			Lower	Upper
Surrogates:	%	Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	109	42	152
Toluene-d8		114	36	149
4-Bromofluorobenz	zene	116	50	150
		ncentration		
Compounds:	្តារ្	g/kg (ppm)		
Benzene		<0.03		
Toluene		< 0.05		
Ethylbenzene		<0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 06/17/10 06/17/10 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water and Sewer 101.00433.00001 00899 mb 061711.D GCMS4 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	100	Lower ery: Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:	Concentra mg/kg (pp		
Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene	<0.03 <0.05 <0.05 <0.1 <0.05 <0.05		

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10 Date Received: 06/11/10 Project: Olympic Water and Sewer 101.00433.00001, F&BI 006145

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 006145-01 (Duplicate)						
		(Wet V	Nt) (W	et Wt)	Relative Percent	
	Reporting	Samp	le Du	plicate	Difference	
Analyte	Units	Resu	lt R	esult	(Limit 20)	
Gasoline	mg/kg (ppm)	<2		<2	nm	
Laboratory Code:	Laboratory Conti	rol Samp	le			
			Percent			
	Reporting	Spike	Recovery	Acceptar	ice	
Analyte	Units	Level	LCS	Criteria	1	
Gasoline	mg/kg (ppm)	10	110	61-153		

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10 Date Received: 06/11/10 Project: Olympic Water and Sewer 101.00433.00001, F&BI 006145

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code:	006145-02 (Duplie	ate)					
ũ	-	(Wet Wt)	(Wet Wt)	Relative Percent			
	Reporting	Sample	Duplicate	Difference			
Analyte	Units	Result	Result	(Limit 20)			
Gasoline	mg/kg (ppm)	<2	<2	nm	-		
Laboratory Code: Laboratory Control Sample							
-	-	Pe	rcent Percen	t			
	-	0 11 D	-		DDD		

	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Gasoline	mg/kg (ppm)	10	110	115	61-153	3

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10 Date Received: 06/11/10 Project: Olympic Water and Sewer 101.00433.00001, F&BI 006145

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 006122-02 (Matrix Spike)

	•			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Benzene	mg/kg (ppm)	2.5	< 0.03	72	58-129
Toluene	mg/kg (ppm)	2.5	< 0.05	75	56-136
Ethylbenzene	mg/kg (ppm)	2.5	< 0.05	77	62-129
m,p-Xylene	mg/kg (ppm)	5	< 0.1	79	60-132
o-Xylene	mg/kg (ppm)	2.5	< 0.05	78	56-139
Naphthalene	mg/kg (ppm)	2.5	< 0.05	79	35-174

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benzene	mg/kg (ppm)	2.5	100	105	73-115	5
Toluene	mg/kg (ppm)	2.5	101	105	75-117	4
Ethylbenzene	mg/kg (ppm)	2.5	98	102	74-122	4
m,p-Xylene	mg/kg (ppm)	5	102	107	78-114	5
o-Xylene	mg/kg (ppm)	2.5	99	102	81-116	3
Naphthalene	mg/kg (ppm)	2.5	102	104	70-122	2

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10 Date Received: 06/11/10 Project: Olympic Water and Sewer 101.00433.00001, F&BI 006145

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 006192-18 FS and 1/10 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	< 0.03	< 0.03	nm
Toluene	mg/kg (ppm)	0.83	0.82	1
Ethylbenzene	mg/kg (ppm)	4.5	4.5	0
m,p-Xylene	mg/kg (ppm)	28	31	10
o-Xylene	mg/kg (ppm)	7.4	7.2	3
Naphthalene	mg/kg (ppm)	2.3	2.2	4

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benzene	mg/kg (ppm)	2.5	93	93	72-121	0
Toluene	mg/kg (ppm)	2.5	96	94	66-126	2
Ethylbenzene	mg/kg (ppm)	2.5	99	97	64-123	2
m,p-Xylene	mg/kg (ppm)	5	101	100	78-122	1
o-Xylene	mg/kg (ppm)	2.5	100	98	77-124	2
Naphthalene	mg/kg (ppm)	2.5	103	99	60-125	4

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

Ic - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

000145	SA	SAMPLE CHAIN OF CUSTODY ME 06/11/10	825/25N
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Address 22118 201h	h Are SE, G-303-	33. 00ccl	
City, State, ZIP Bothell, WA	11, WA 98021	REMARKS Prevse bold samples for possible follow- of Dispose after 30 days	SAMPLE DISPOSAL ose after 30 days
Phone #(435)402 - 8800	2 Fax # (495) 402 - 8488		weturn samptes Will call with instructions
		ANALYSES REQUESTED	
Sample [])	Lab Date Time Sa ID Sampled Sampled Sa	Sample TPH-Casoline SVOCs by 8260 SVOCs by 8260 SVOCs by 8260 TPH-Diesel TPH-Diesel HFS	Notes
MW3-45.5	A E 6/10/10 0930 50	Soil 5 XX 1	
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Seattle, WA 98119-2029 Ph. (206) 285-8282	Received by Burner	1	12:48
Fax (206) 283-5044	Received by:	An Phan IzaBT 6/	1400
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 30, 2010

Mike Staton, Project Manager SLR International Corp. 22118 20th Ave. SE. G-202 Bothell, WA 98021

Dear Mr. Staton:

Included are the soil results from the testing of material submitted on June 15, 2010 from the OWSI, 101.00433.00001, F&BI 006178 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SLR0630R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 15, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
006178-01	MW4-55

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10 Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178 Date Extracted: 06/16/10 Date Analyzed: 06/16/10 and 06/17/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Gasoline Range	Surrogate (<u>% Recovery</u>) (Limit 58-139)
MW4-55 006178-01	<2	87
Method Blank 00-0852 MB2	<2	91

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW4-55 06/15/10 06/17/10 06/17/10 Soil mg/kg (ppn	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 006178-01 061705.D GCMS4 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 104 106 100	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		Concentration mg/kg (ppm)		
Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene		<0.03 <0.05 <0.05 <0.1 <0.05 <0.05		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 06/17/10 06/17/10 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 00736 mb2 061704.D GCMS4 VM
			Lower	Upper
Surrogates:	%	Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	99	62	142
Toluene-d8		99	55	145
4-Bromofluorobenz	zene	99	65	139
	Cor	ncentration		
Compounds:	m	g/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10 Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code:	Laboratory Code: 006145-01 (Duplicate)								
-		(Wet Wt)	(Wet Wt)	Relative Percent					
	Reporting	Sample	Duplicate	Difference					
Analyte	Units	Result	Result	(Limit 20)					
Gasoline	mg/kg (ppm)	<2	<2	nm					
Laboratory Code:	Laboratory Contr	ol Sample							
		Per	rcent						

	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Gasoline	mg/kg (ppm)	10	110	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10 Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benzene	mg/kg (ppm)	2.5	93	95	72-121	2
Toluene	mg/kg (ppm)	2.5	96	91	66-126	5
Ethylbenzene	mg/kg (ppm)	2.5	99	100	64-123	1
m,p-Xylene	mg/kg (ppm)	5	102	102	78-122	0
o-Xylene	mg/kg (ppm)	2.5	100	100	77-124	0
Naphthalene	mg/kg (ppm)	2.5	99	100	60-125	1

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

 $d\boldsymbol{v}$ - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\sf J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

 \mathbf{x} - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 30, 2010

Mike Staton, Project Manager SLR International Corp. 22118 20th Ave. SE. G-202 Bothell, WA 98021

Dear Mr. Staton:

Included are the water results from the testing of material submitted on June 15, 2010 from the OWSI, 101.00433.00001, F&BI 006178 project. There are 23 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SLR0630R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 15, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	<u>SLR International Corp.</u>
006178-02 [°]	MW4-0610
006178-03	MW3-0610
006178-04	MW2-0610
006178-05	MW1-0610

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10 Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178 Date Extracted: 06/16/10 Date Analyzed: 06/16/10

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	Gasoline Range	Surrogate (<u>% Recovery)</u> (Limit 50-150)
MW4-0610 006178-02	<100	112
MW3-0610 006178-03	<100	112
MW2-0610 006178-04	8,400	ip
MW1-0610 006178-05	990	123
Method Blank 00-0854 MB2	<100	108

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	MW4-0610 06/15/10 06/23/10 06/23/10 Water		Client: Project: Lab ID: Data File: Instrument:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 006178-02 006178-02.063 ICPMS1
Units:	ug/L (ppb)		Operator:	AP
Internal Standard: Germanium		% Recovery: 104	Lower Limit: 60	Upper Limit: 125
Germannum		104	00	125
Analyte:		Concentration ug/L (ppb)		

Lead

<1

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW3-0610 06/15/10 06/23/10 06/23/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 006178-03 006178-03.066 ICPMS1 AP
Internal Standard: Holmium		% Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:		Concentration ug/L (ppb)		
Lead		<1		

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW2-0610 06/15/10 06/23/10 06/23/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 006178-04 006178-04.067 ICPMS1 AP
Internal Standard Holmium	:	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:		Concentration ug/L (ppb)		
Lead		<1	·	

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW1-0610		Client:	SLR International Corp.
Date Received:	06/15/10		Project:	OWSI, 101.00433.00001, F&BI 006178
Date Extracted:	06/23/10		Lab ID:	006178-05
Date Analyzed:	06/23/10		Data File:	006178-05.068
Matrix:	Water		Instrument:	ICPMS1
Units:	ug/L (ppb)		Operator:	AP
			Lower	Upper
Internal Standard:		% Recovery:	Limit:	Limit:
Holmium		92	60	125
		Concentration		-

Analyte:

Lead

<1

ug/L (ppb)

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank NA 06/23/10 06/23/10 Water ug/L (ppb)	c	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 I0-319 mb I0-319 mb.061 ICPMS1 AP
Internal Standard Holmium	ġ	% Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	_	oncentration ug/L (ppb)		
Lead		<1		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW4-0610 06/15/10 06/18/10 06/19/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 006178-02 061832.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 98 100 108	Lower Limit: 63 65 69	Upper Limit: 127 127 127
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl eth 1,2-Dichloroethane 1,2-Dibromoethane Benzene Toluene Ethylbenzene m.p-Xylene o-Xylene Naphthalene	e (EDC)	<1 <1 <0.35 <1 <1 <2 <1 <1 <2 <1 <1		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW3-0610 06/15/10 06/18/10 06/19/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 006178-03 061833.D GCMS5 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	99	63	127
Toluene-d8		98	65	127
4-Bromofluorobenz	zene	106	69	127
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl eth	er (MTBE)	<1		
1,2-Dichloroethane		<1		
1,2-Dibromoethane	e (EDB)	<1		
Benzene		0.36		
Toluene		<1		
Ethylbenzene		<1		
m,p-Xylene		<2		
o-Xylene		<1		
Naphthalene		<1		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW2-0610 06/15/10 06/18/10 06/19/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 006178-04 061834.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 88 98 99	Lower Limit: 63 65 69	Upper Limit: 127 127 127
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl eth 1,2-Dichloroethane 1,2-Dibromoethane Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene	e (EDC)	<1 <1 <1 820 ve 510 ve 430 ve 430 ve 450 ve 380 ve 100 ca		•

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW2-0610 06/15/10 06/22/10 06/22/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 006178-04 1/100 062210.D GCMS5 VM
		04 F	Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4		101	63	127
Toluene-d8		103	65	127
4-Bromofluorobenzene		108	69	127
Compounds:		Concentration ug/L (ppb)		· · ·
Methyl t-butyl ethe	er (MTBE)	<100		
1,2-Dichloroethane		<100		
1,2-Dibromoethane	e (EDB)	<100		
Benzene		2,100		
Toluene		620		
Ethylbenzene		960		
m,p-Xylene		400		
o-Xylene		250		
Naphthalene		100		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW1-0610 06/15/10 06/21/10 06/21/10 Water ug/L (ppb)	• •	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 006178-05 062109.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 98 101 102	Lower Limit: 63 65 69	Upper Limit: 127 127 127
Compounds:		Concentration ug/L (ppb)		
Methyl t-butyl eth	er (MTBE)	<1		
1,2-Dichloroethane		<1		
1,2-Dibromoethane	e (EDB)	<1		
Benzene		110		
Toluene		45		
Ethylbenzene		1.1		
m,p-Xylene		56		
o-Xylene		130		
Naphthalene		<1		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 06/18/10 06/18/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 00901 mb 061819.D GCMS5 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	102	63	127
Toluene-d8		101	65	127
4-Bromofluorobenz	zene	107	69	127
		Concentration		
Compounds:		ug/L (ppb)		
Methyl t-butyl eth	er (MTBE)	<1		
1,2-Dichloroethane	e (EDC)	<1		
1,2-Dibromoethane	e (EDB)	<1		
Benzene		< 0.35		
Toluene		<1		
Ethylbenzene		<1		
m,p-Xylene		<2		
o-Xylene		<1		
Naphthalene		<1		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blar Not Applicat 06/21/10 06/21/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 00904 mb 062107.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 102 101 108	Lower Limit: 63 65 69	Upper Limit: 127 127 127
Compounds:	(Concentration ug/L (ppb)		
Methyl t-butyl eth 1,2-Dichloroethane 1,2-Dibromoethane Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene	e (EDC)	<1 <1 <0.35 <1 <1 <2 <1 <1		· · · · · · · · · · · · · · · · · · ·

Date Received: Date Extracted: Date Analyzed: Matrix:	Method Blar Not Applicat 06/22/10 06/22/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 00905 mb 062207.D GCMS5 VM
C		0/ D	Lower	Upper
Surrogates:	3.4	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	· d 4	103	63	127
Toluene-d8		103	65	127
4-Bromofluorobenze	ene	109	69	127
	(Concentration		
Compounds:		ug/L (ppb)		
Methyl t-butyl ethe	r (MTBE)	<1		
1,2-Dichloroethane	(EDC)	<1		
1,2-Dibromoethane	(EDB)	<1		
Benzene		< 0.35		
Toluene		<1		
Ethylbenzene		<1		
m,p-Xylene		<2		
o-Xylene		<1		
Naphthalene		<1		

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10 Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178 Date Extracted: 06/23/10 Date Analyzed: 06/23/10

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR 1,2-DIBROMOETHANE BY EPA METHOD 8011 MODIFIED

Results Reported as $\mu g/L$ (ppb)

<u>Sample ID</u> Laboratory ID	<u>EDB</u>
MW4-0610 006178-02	<0.01
MW3-0610 006178-03	<0.01
MW2-0610 006178-04	<0.01
MW1-0610 006178-05	< 0.01
Method Blank	<0.01

EDB

1,2-Dibromoethane

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10 Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: (06157-04 (Dup	licate)			
					Relative Percent
	Reporting	Samp	le Du	plicate	Difference
Analyte	Units	Resu	lt R	esult	(Limit 20)
Gasoline	ug/L (ppb)	<100) -	<100	nm
Laboratory Code: 1	Laboratory Con	trol Sam	ole		
			Percent		
	Reporting	Spike	Recover	Acceptanc	e
Analyte	Units	Level	y LCS	Criteria	
Gasoline	ug/L (ppb)	1,000	95	70-119	

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10 Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code	Laboratory Code: 006178-02 (Matrix Spike)						
-	-			Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Lead	ug/L (ppb)	10	<1	111	107	76-125	4

Laboratory Code: Laboratory Control Sample							
			Percent				
	Reporting	Spike	Recovery	Acceptance			
Analyte	Units	Level	LCS	Criteria	_		
Lead	ug/L (ppb)	10	110	67-135	-		

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10 Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 006214-01 (Matrix Spike)

ý í	1 /	Percent					
	Reporting	Spike	Sample	Recovery	Acceptance		
Analyte	Units	Level	Result	MS	Criteria		
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	100	56-135		
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	96	68-132		
Benzene	ug/L (ppb)	50	<0.35	105	71-120		
Toluene	ug/L (ppb)	50	<1	100	68-131		
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	100	77-127		
Ethylbenzene	ug/L (ppb)	50	<1	103	69-129		
m,p-Xylene	ug/L (ppb)	100	<2	105	72-128		
o-Xylene	ug/L (ppb)	50	<1	111	67-133		
Naphthalene	ug/L (ppb)	50	<1	112	40-166		

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	107	105	54-156	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	101	77-118	2
Benzene	ug/L (ppb)	50	107	106	77-121	· 1
Toluene	ug/L (ppb)	50	103	101	81-117	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	107	104	88-122	3
Ethylbenzene	ug/L (ppb)	50	105	103	83-116	2
m,p-Xylene	ug/L (ppb)	100	108	106	84-120	2
o-Xylene	ug/L (ppb)	50	113	112	83-120	1
Naphthalene	ug/L (ppb)	50	122	121	66-135	1

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10 Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 006228-01 (Matrix Spike)

, ,	. ,			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	96	56-135
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	101	68-132
Benzene	ug/L (ppb)	50	< 0.35	107	71-120
Toluene	ug/L (ppb)	50	<1	102	68-131
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	103	77-127
Ethylbenzene	ug/L (ppb)	50	<1	106	69-129
m,p-Xylene	ug/L (ppb)	100	<2	109	72-128
o-Xylene	ug/L (ppb)	50	<1	113	67-133
Naphthalene	ug/L (ppb)	50	<1	117	40-166

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	111	108	54-156	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	103	100	77-118	3
Benzene	ug/L (ppb)	50	107	104	77-121	3
Toluene	ug/L (ppb)	50	103	100	81-117	3
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	108	103	88-122	5
Ethylbenzene	ug/L (ppb)	50	104	101	83-116	3
m,p-Xylene	ug/L (ppb)	100	108	104	84-120	4
o-Xylene	ug/L (ppb)	50	114	110	83-120	4
Naphthalene	ug/L (ppb)	50	1 27	119	66-135	7

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10 Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Dencent

Doncont

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	104	104	54-156	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	100	77-118	1
Benzene	ug/L (ppb)	50	104	105	77-121	1
Toluene	ug/L (ppb)	50 _	99	101	81-117	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	103	105	88-122	2
Ethylbenzene	ug/L (ppb)	50	101	103	83-116	2
m,p-Xylene	ug/L (ppb)	100	105	106	84-120	1
o-Xylene	ug/L (ppb)	50	110	112	83-120	2
Naphthalene	ug/L (ppb)	50	117	116	66-135	1
-						

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10 Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR 1,2-DIBROMOETHANE BY EPA METHOD 8011 MODIFIED

Laboratory Code: Laboratory Control Sample

			Percent	Percent			
	Reporting	Spike	Recovery	Recovery	Acceptanc	RPD	
Analyte	Units	Level	LCS	LCSD	e Criteria	(Limit 10)	_
1,2-Dibromoethane	ug/L (ppb)	0.10	96	93	70-130	3	

_

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

MIKE STATON 20rn Are Se, G. 303 20rn Are Se, G. 303 2000 Fax #(495)409 - 8458 2000 Are G/11/10 1010 212 KG/14/10 1150 212 KG/14/10 1150 212 NG/14/10 1150 212 NG/14/10 1150 212 NG/14/10 1150 212 NG/14/10 1150 213 NG/14/10 1150 214 NG/14/10 1150 215 NG/14/150 215 NG/14/10 1150 215 NG/14 NG/14/150 215 NG/14/150 215 NG/1	006178	ŝ	SAMPLE CHAIN OF CUSTODY ME	4E 00-12-10	DIA /EN/13/ AZE
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	Fax (206) 283-5044	necelveu by:		Samples received	8

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 3, 2010

Mike Staton, Project Manager SLR International Corp. 22118 20th Ave. SE., G-202 Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on October 21, 2010 from the Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SLR1103R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 21, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249 project. Samples were logged in under the laboratory ID's listed below.

1

<u>Laboratory ID</u>	SLR International Corp.
010249-01	MW1-1010
010249-02	MW2-1010
010249-03	MW3-1010
010249-04	MW4-1010

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/10 Date Received: 10/21/10 Project: Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249 Date Extracted: 10/25/10 Date Analyzed: 10/25/10

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	Gasoline Range	Surrogate (<u>% Recovery)</u> (Limit 50-150)
MW1-1010 010249-01	1,900	ip
MW2-1010 010249-02	3,900	ip
MW3-1010 010249-03	<100	118
MW4-1010 010249-04	<100	118
Method Blank 00-1728 MB	<100	118

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW1-1010 10/21/10 10/28/10 10/29/10 Water ug/L (ppb)	·	Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water & Sewer, Inc 010249-01 1/10 102824.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 100 97 95	Lower Limit: 63 65 69	Upper Limit: 127 127 127
Compounds:		Concentration ug/L (ppb)		
Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene		520 140 110 71 150 15		

3

.

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW2-1010 10/21/10 10/29/10 10/30/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water & Sewer, Inc 010249-02 1/10 102929.D GCMS5 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	95 [°]	63	127
Toluene-d8		97	65	127
4-Bromofluorobenz	zene	96	69	127
Compounds:		Concentration ug/L (ppb)		
Benzene		1,300		
Toluene		290		
Ethylbenzene		430		•
m,p-Xylene		240		
o-Xylene		290		
Naphthalene		35		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW3-1010 10/21/10 10/29/10 10/30/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water & Sewer, Inc 010249-03 102928.D GCMS5 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	100	63	127
Toluene-d8		92	65	127
4-Bromofluorobenz	zene	92	69	127
Compounds:		Concentration ug/L (ppb)		
Benzene		< 0.35		
Toluene		<1		
Ethylbenzene		<1		
m,p-Xylene		<2		
o-Xylene		<1		
Naphthalene		<1		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW4-1010 10/21/10 10/28/10 10/29/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water & Sewer, Inc 010249-04 102827.D GCMS5 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	97	63	127
Toluene-d8		94	65	127
4-Bromofluorobenz	zene	94	69	127
		Concentration		
Compounds:		ug/L (ppb)		
Benzene		< 0.35		
Toluene		<1		
Ethylbenzene		<1		
m,p-Xylene		<2		
o-Xylene		<1		
Naphthalene		<1		

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 10/29/10 10/30/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water & Sewer, Inc 001709 mb 102927.D GCMS5 VM
Surrogates:	% R	Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane		98	63	127
Toluene-d8	ai	94	65	127
4-Bromofluorobenz	zene	95	69	127
Compounds:		centration /L (ppb)		
Benzene		<0.35		
Toluene		<1		
Ethylbenzene		<1		
m,p-Xylene		<2		
o-Xylene		<1		
Naphthalene		<1		

7

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blar Not Applical 10/28/10 10/28/10 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SLR International Corp. Olympic Water & Sewer, Inc 001708 mb 102817.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluoroben:	zene	% Recovery: 99 94 94	Lower Limit: 63 65 69	Upper Limit: 127 127 127
Compounds:		Concentration ug/L (ppb)		
Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Naphthalene		<0.35 <1 <1 <2 <1 <1		

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/10 Date Received: 10/21/10 Project: Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 010271-16 (Duplicate)

Analyte	Reporting Units	Sampl Resul		plicate esult	Relative Percent Difference (Limit 20)			
Gasoline	ug/L (ppb)	<100	<	:100	nm			
Laboratory Code: Laboratory Control Sample Percent								
	Reporting	Spike	Recover	Acceptanc	e			
Analyte	Units	Level	y LCS	Criteria				
Gasoline	ug/L (ppb)	1,000	99	70-119				

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/10 Date Received: 10/21/10 Project: Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 010249-02 (Matrix Spike)

·	-			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Benzene	ug/L (ppb)	50	660 ve	0 b	62 - 144
Toluene	ug/L (ppb)	50	210 ve	91 b	68-131
Ethylbenzene	ug/L (ppb)	50	240 ve	2 b	51-150
m,p-Xylene	ug/L (ppb)	100	190	120 b	72-137
o-Xylene	ug/L (ppb)	50	220 ve	102 b	67-133
Naphthalene	ug/L (ppb)	50	37	97 b	40-166

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benzene	ug/L (ppb)	50	107	107	77-121	0
Toluene	ug/L (ppb)	50	108	107	81-113	1
Ethylbenzene	ug/L (ppb)	50	110	108	83-116	2
m,p-Xylene	ug/L (ppb)	100	110	110	84-120	0
o-Xylene	ug/L (ppb)	50	120	120	83-120	0
Naphthalene	ug/L (ppb)	50	114	114	66-135	0

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/10 Date Received: 10/21/10 Project: Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 010275-10 (Matrix Spike)

	1 /			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Benzene	ug/L (ppb)	50	< 0.35	101	62-144
Toluene	ug/L (ppb)	50	<1	102	68-131
Ethylbenzene	ug/L (ppb)	50	<1	104	51-150
m,p-Xylene	ug/L (ppb)	100	<2	104	72-137
o-Xylene	ug/L (ppb)	50	<1	112	67-133
Naphthalene	ug/L (ppb)	50	<1	111	40-166

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benzene	ug/L (ppb)	50	103	106	77-121	3
Toluene	ug/L (ppb)	50	105	109	81-113	4
Ethylbenzene	ug/L (ppb)	50	102	105	83-116	3
m,p-Xylene	ug/L (ppb)	100	105	108	84-120	3
o-Xylene	ug/L (ppb)	50	114	118	83-120	3
Naphthalene	ug/L (ppb)	50	111	115	66-135	4

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

Ic - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

	2UESTED Notes Notes Notes Notes Notes Notes Notes Notes	NY DATE TIME NY DATE TIME N/21/10 1:42 pm 10/21/10 1:42 pm
SAMPLE CHAIN OF CUSTODY ME 10-24 SAMPLERS (signature) SAMPLERS (signature) PR0.JE(T NAME/NO. PR0.JE(T NAME/NO. PR0.JE(T NAME/NO. OLYMPIC Leater & Sewer, Inc. 101.00433.0001 REMARKS	³	PRINTNAME COMPANY CHRIS LEE SLR VILI LAGUILTI CHAMPIEN MILI LAGUILTI CHUMPIEN NJAAN PHAN FIRT
STATON STATON CORP AVE SE, G-202 WA 9803-1 Fax#(425)402-8488	Lab Date Time Sample Type Lab Date Time Sampled Sampled Sampled Sampled Lap Lab Date Date Time Sample Type Low K 10/20/10 1511 LVATER 03 R 10/20 1511 LVATER 03 R 1/20 1551 LVATER 1/20 1551 LVATER 1/20 1551 LVATER 1/20 1511 LVATER 1/20 152 1/20 1511 LVATER 1	SIGNAPORE Relinquished by: Received by: Mill May Lina Relinquished by Received by: May and and
010249 Send Report To MIFE Company SLR INTL Address 22118 20TH City, State, ZIP BOTHEL, Phone # (425) 402-8200	Sample ID MW/-1010 MW3 - 1010 MW4 - 1010 MW4 - 1010	 Friedman & Bruya, Inc. 3012 16th Avenue West Scuttle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044 FORMS\COC\COC.DOC

APPENDIX D

WATER SUPPLY WELL LOGS

Table D-1 Water Well Supply Well Construction Details Olympic Water and Sewer, Inc. Property Port Ludlow, Washington

SLR				- 1112				Total	Casing				1
Designated						Well Owner's Name		Depth	Depth	Screen Depth	Open	StaticWater Level	Producing
Number	Quarter		Section	Township	Range	(at time of installation)	Well Use	(ft. bgs)	(ft. bgs)	(ft. bgs)	(ft. bgs)	(ft. bgs)	Formation
1	NW	SE	8	28N	1E	Blaine Shaffer	Domestic	208	0-203	203-208	NA	108	Sand and Gravel
						Pope & Talbot			0-214;	214-224;			
2	SW	SE	8	28N	1E	Development, Inc.	Domestic	245	224-240	240-245	-	69.5	Sand and Gravel
						Pope & Talbot							
3	SE	NE	8	28N	1E	Development, Inc.	Domestic	257	241-257	0-241	-	144.5	Sand and Gravel
									0-315.5;				
						Pope & Talbot			329.7-	315.5-329.7;			Sand and Gravel;
4	SE	SW	8	28N	1E	Development, Inc.	Domestic	546	361.3	361.3-377.1	-	158.9	Pebble Conglomerate
5	NW	SE	8	28N	1E	Richard Werner	Domestic	157	0-157	None	157	118	Gravel
6	NW	SE	8	28N	1E	Ross Witter	Domestic	176	0-176	None	176	136	Sand and Gravel
7	NW	SE	8	28N	1E	Ross Witter	Domestic	178	0-178	None	178	133	Sand and Gravel
8	NE	SW	8	28N	1E	Ruth Altis	Domestic	211.5	0-211.5	None	211.5	191	Sandy Clay and Gravel
9	NE	SW	8	28N	1E	Chris Baschab	Domestic	276	0-270	270-276	-	226.5	Sand and Gravel
10	NE	SW	8	28N	1E	Frank Woodruff	Domestic	193	0-193	None	193	114	Gravel
11	S 1/2	NE	8	28N	1E	R.T. Moran	Domestic	290	0-285	285-290	-	201	Sand and Gravel
12	NW	SE	8	28N	1E	John Werner	Domestic	205	NA	NA	NA	142.65	NA
Notes:												· · · · · · · · · · · · · · · · · · ·	
				e are based	d on Was	hington Department of E	cology or C	Dlympic V	Vater & Sev	ver, Inc. record	S.		
NA= Informa	tion not a	available.											

REPORT

Start Card No. WE03667 UNIQUE WELL I.D. # AGS283 Water Rights Permit No.

File original and first copy with Department of Ecology	WATER WEL	ASHINGTON UNIQUE WEL	LL I.
Second Copy - Owner's Copy Third Copy - Driller's Copy	SIALO	Water Rights P	'em
(1) OWNER: Name: BLAINE SHAFFER	Addr	ess: 425 SHINE RD., PORT LUDLOW, WA 98	336
2) LOCATION OF WELL: County: JEFFE		W 1/4 of the SE 1/4, Sec. 8, Twnsp 28 N,	R
(2a)STREET ADDRESS OF WELL (or near		WAY, PORT LUDLOW, WA 98365	
(3) PROPOSED USE: X Domestic	Test well	(10) WELL LOG or	
Irrigation	Municipal	ABÁNDONMENT PROCEDURE DE	ES
	well(if more than one): 1	-	
Abandoned X New well Method:		Formation: Describe by color, character, size of structure, and show thickness of aquifers and t	
Deepened	X Cable Driven	of the material in each stratum penetrated, with	
Reconditioned	Rotary Jetted	each change of formation.	
5) DIMENSIONS: Diameter of well	•	MATERIAL	
Drilled 208 feet Depth of cor	npleted well 208 feet	BROWN HARDPAN	1
6) CONSTRUCTION DETAILS:			+
Casing Installed: 6 in. diam. fro Welded in. diam. fro		BROWN SAND & GRAVEL	ļ
Welded in. diam. fro Liner installed in. diam. fro		GRAY HARDPAN	
Threaded in diam. fro		BROWN CLAY	
Perforations: Were perforations ma		· · · · · · · · · · · · · · · · · · ·	
Perforator type:	• • •	BLUE CLAY	1
Size of perforation: in. by:	in.	BROWN CLAY	
Perforations from: ft. to	ft.	GRAY SAND W/B	
Perforations from: ft. to	ft.		
Screens: X Screens installed Manufacturer's name: Johnson		BROWN CLAY	
Type: Telescoping		GRAY SAND & GRAVEL W/B	
Diam. 6 in slot size .016 from	n 203 ft.to 208 ft.		1
Diam. in. slot size from	n ft. to ft.		I
Gravel: Yes Size of gravel	: in.]	
Gravel Placed from: ft. to	ft		
•	o what depth?: 18 ft.	P A	
Material used in seal: Bentonite Did any strata contain unusable water [- Yes		
	h of strata: ft.	Allo	1
Method of sealing strata:	, or	DE- 106 0 5	20
7) PUMP; Manufacturer's name: Goulds	······································	RECE AUG 0 5 DEPT OF ECO	<i><u< i=""></u<></i>
Type: Submersible	HP: 1	ECO),
8) WATER LEVELS Land-surface ele		· · ·	
above mean sea	_ · -		
Static level: 108 ft. below top of well Artestian pressure: PSI	Date: 6/21/2005 Date:		
Artestian pressure: PSI Artesian water is controlled by:	Dale.		
	vel is lowered below static level.	1	
Was a pump test made? Xes, by: Don		Work started: 6/13/2005 Work com	nple
	drawdown after 1.5 hrs	WELL CONSTRUCTOR CERTIFICATION:	
	drawdown after hrs	I constructed and / or accept responsibility fo	
Recovery data (time taken as zero when pump tume	d off) (water level	well, and to the compliance with all Washingt standards. Materials used and the information	
measured from well top to water level) Water Water	Water	true to my best knowledge and belief.	
Time level Time level	Time level		
10 min. 108'		Contractor: LOFALL WELL DRI	ILL
		Address: 180 NW Lofall Rd, Poulsbo	o, V
Date of test: 6/21/2005			
Bailer test: 20 GPM with 28 f	it. drawdown after hrs.	Signed: V. J & Durlly	Lice
	6 6a	Signed. Kathana / /	
Air test: GPM with stem set at Artesian flow: GPM Date:	ft. for hrs.	(Well Driller)	

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

1/4 of the SE 1/4, Sec. 8, Twnsp 28 N, R. 1 E W.M.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least on entry for each change of formation.

MATERIAL	FROM	то
BROWN HARDPAN	0'	67'
BROWN SAND & GRAVEL	67'	102
GRAY HARDPAN	102'	108
BROWN CLAY	108'	125
BLUE CLAY	125'	144
BROWN CLAY	144'	189
GRAY SAND W/B	189'	192
BROWN CLAY	192'	199
GRAY SAND & GRAVEL W/B	199'	?

RECEIVED AUG 0 5 2005 DEPT OF ECOLOGY

Work completed: 6/20/2005 Work started: 6/13/2005

I constructed and / or accept responsibility for construction of this well, and to the compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

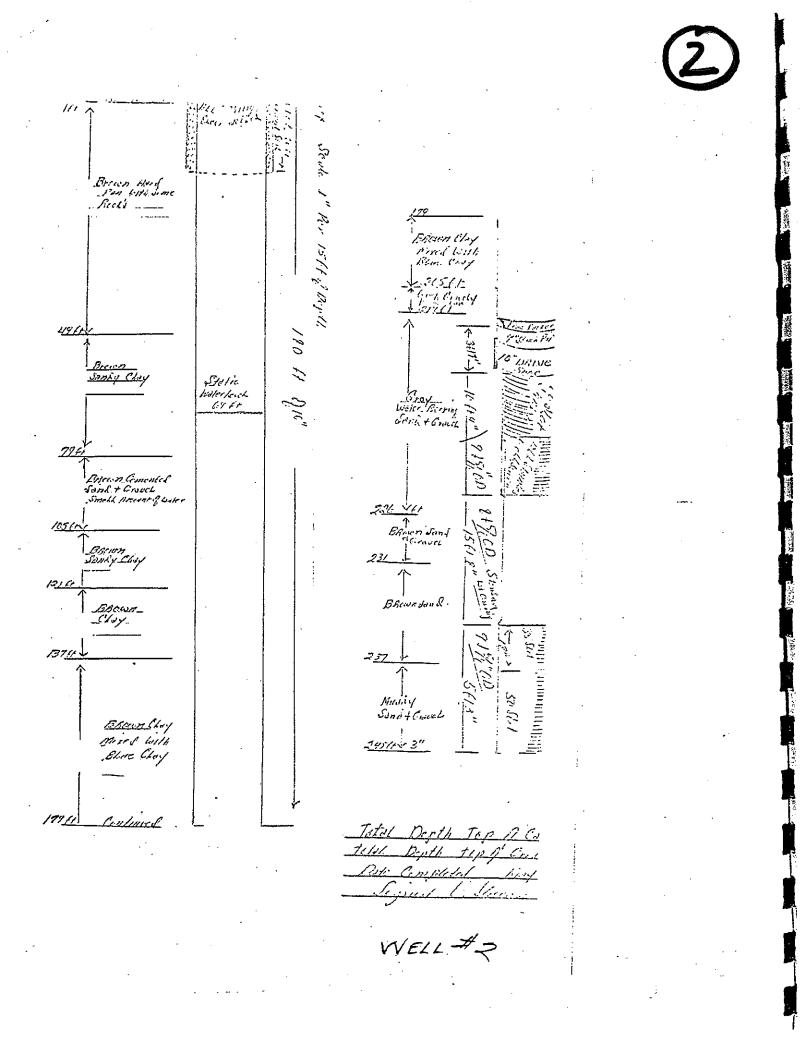
Contractor: LOFALL WELL D	RILLING
Address: 180 NW Lofall Rd, Pouls	sbo, WA 98370
(Well Driller)	_ License # 1463
Contractor's Registration No: LOFALWD124C5	Date: 7/12/2005

ATE OF WASHINGTON (DIVISION OF WATER RESOURCES 17 No WELL SCHEDULE 8-2 Data Record by Source. 1. Locations State of WASHING Jet County. Area Map DIAGRAM **D**I SV SE14 Detail 22 (His No 2. Owner or To Address 3. Drilleri Ć 4. Land-surface datus Topography - Repi 5. Type: Dug | Drilled n Tetted Bored Date. 811 6. Casing: Diam. Depth. Finie ft. ft to 7. Chief aquifér(s): abov 8. Water levels Rept. balo datum tete te Capacity--9. Pump: Type Size - horsepowe Driven by_ pal. min. Pump / 60 gat. min. Meas. (Rep.) Est. 10. Yield: Flow. 5 ft. after . hours pumping mi. min. Drawdown. Adequacy, permanence . 11. Use: Dom., Stock. PS. Ind. Irr. Obs. _ Temp 12. Quality: Sample No.___ 19. -Taste, color, hardness, sanitation, etc. 13. Other datas Log Water levels Draft Pump test Analyses Turn up ----S 3 16 .

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UFL ANU PORT LUDLOW REGION REFERENCE NO. 10 Well Data Summary LOCATION: TZBRIE BOC. B 1/4 1/4 KQ B LAND BURFACE 300 BEPTH 245 DATE COOPE ELEVATION 300 VER DEPTH 245 DRILLED 1968 WELL OWNER: POPE TALBOT DEVELOPMENT, INC. OWNER'S DESIGNATION (WELL 2, N) USE DRILLING INFORMATION BOURCE R+N 01-82 METHOD CABLE DRILLED BY STOICAN CASING SIZE (S) 10 8ec. -COMPLETION MODE SCREEN COMPLETION ZONE (6) 240-245 VIELD 15.8 A SPECIFIC CAPACITY 3.0 A AQUIFER TRANSMISSIVITY 15,000 DATE 11/1968 114 114 KQ BTORAGE COEFFICIENT VER.CODE OTHER WATER BEARING ZONES PENETRATED HAJOR AQUICLUDES PENETRATED POST CONSTRUCTION SWL MEASUREMENTS WITH DATES 67.0 3 11/-71 69.2 B 8/21/75 VER. CODE DETAILED SUPPLEMENTARY FILES PUMP TEST DATA FILE GEOLOGIC LOG SEE CACK WATER CHEMISTRY $M_{R} = .16$ 781 Walker Way AL VIE W PHELD BCHEDULE _ MCS ROBINSON & NOBLE, INC.



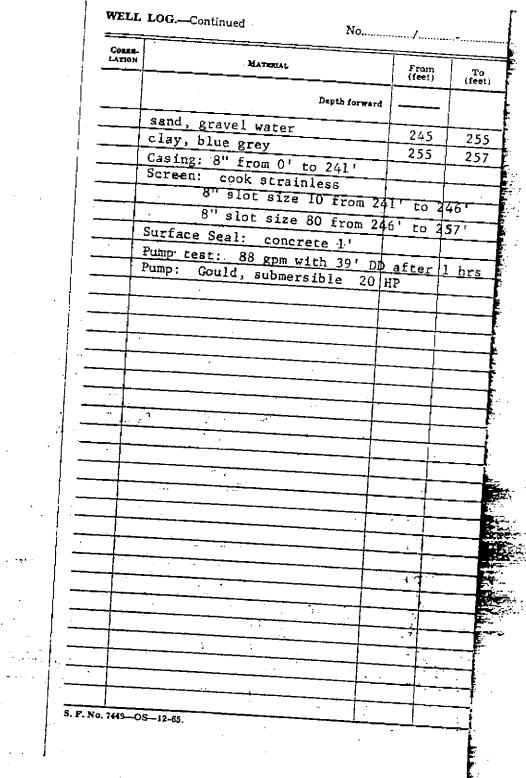
				3
Appl. Per.	10445 9874 STATE OF WASHINGTON DEPARTMENT OF CONSERVA DIVISION OF WATER RESOURC	TION Es		
WELL L Record D Source	by Driller's record			
Cour	State of WASHINGTON			
NWSE	V NE V sec 8 T 28N, R 1 E Co. L.R. Gaudio	lagram of S	ection	
Met Owner Add	Tacoma, Washington ress. Date Pope & Talbot Development Inc. Inc. 113 Dexter Ave. MN Seattle ress. datum	e, WA	98109	
SWL:	144.5 Date Nav. 18	From (feet)		
If materi	nscribe driller's terminology literally but raraphense as n al water-bearing, so stute and record static level if repor desurface datum unless otherwise indicated. Correlate wi e. Following log of materials, list all casings, periorations,	irb straticret	hie column,	
	Community domestic supply	<u>.</u>		
	hardpan	0	34	
	clay, sand, gravel	34	39	
	hardpan	39	48	
	clay, sand	48	57	
	hardpan	57	80	
	sand, gravel, some clay binder small amount of water 80-82	80	128	
	clay, silt & sandy wet peat	128	142	
	clay, silt	142	162	
	clay, gravel some sand	162	1.86	
	clay, some gravel & peat	186	214	
	sand, gravel & water	214	223	
	-sand, some gravel, clay layer		235	1
	sand, gravel, cemented layer water	235	245	
Turn u	Shee	tof	sheets	en de la companya de La companya de la comp

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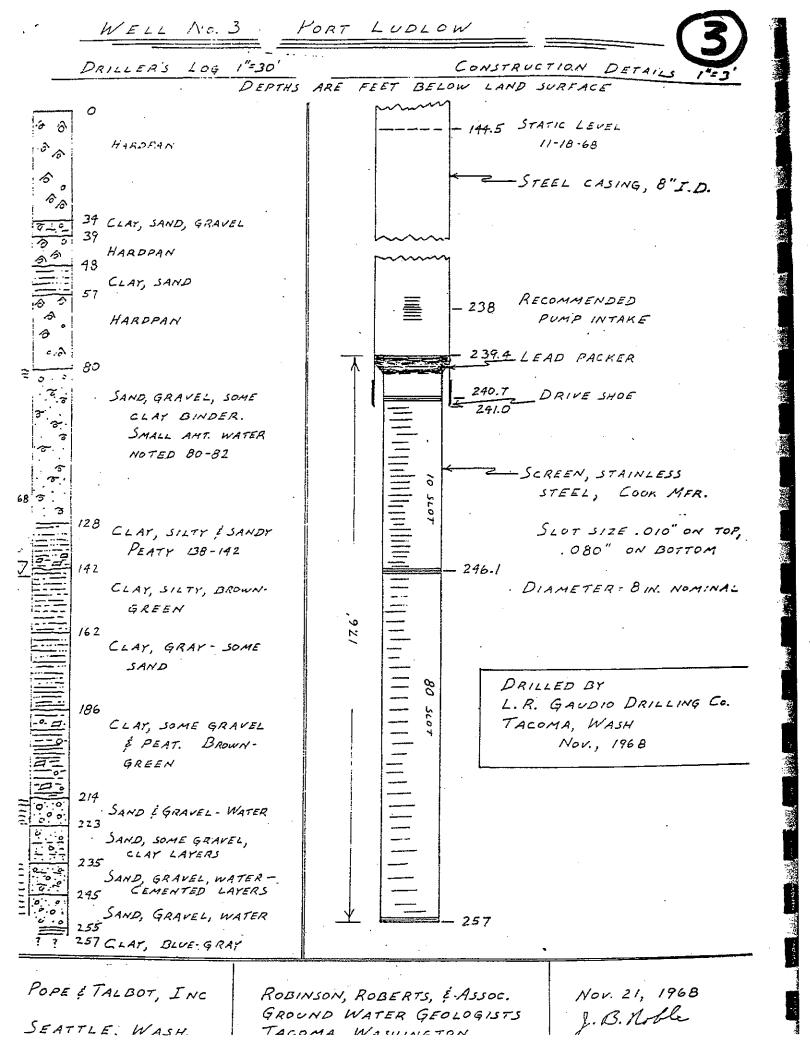
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PORT LUDLOW REGION	3
REFERENCE NO. 9 Well Data Summary	
LOCATION: T <u>28</u> R <u>1F</u> BOC. <u>8</u> 114 114 <u>H1</u> <u>8</u> LAND BURFACE ELEVATION <u>380</u> <u>8</u> DEPTH <u>257</u> DRILLED <u>1968</u>	5 -
WELL OWNER: POPE AND TALBOT DEVELOPMENTINC	└─── ─ ┨ ₽
OWNER'S DESIGNATION WELL'S, N USE	
INFORMATION SOURCE R+N 01-82 METHOD CABLE	1
DRILLED BY GAUDIO CASING SIZE (8) 8 Sec.	
COMPLETION MODE SCREEN COMPLETION ZONE (6) 241-257	
YIELD 88 A SPECIFIC CAPACITY 2.3 A VER CODE DATE 11/18/68	
AQUIFER TRANSMISSIVITY 6000 VER CODE	
BTORAGE COEFFICIENT	•
OTHER WATER BEARING ZONES PENETRATED	•
MAJOR AQUICLUDES PENETRATED	-
POST CONSTRUCTION SWL MEASUREMENTS WITH DATES 152 B 11/71 VER. CODE VER. CODE VER. CODE VER. CODE	•
DETAILED SUPPLEMENTARY FILES	
PUMP TEST DATA FILE R+N FILE	-
GEOLOGIC LOG <u>SEE BACK</u>	-
WATER CHEMISTRY TEMP = 51°F, pH= 7.5, HARD = 102, CI= 6 Fe	<u>= 0.4</u> , H ₂ S
REMARKS 11/71 Q/2=2.0 @ 107.90M @ 1.4K.	
11/71 Fe = 0.1, H2S= SLIGHT, Mn = .13	
11/08 CL = 6	
Talbot Way	-
REVIEW	-
FIELD SCHEDULE	
RECORD BY: MBS ROBINBON & NOT	SLE, INC.



FERENCE NO. 8 Well Data Summary CATION: T 28 R / E Bec. 8 1/4 1/4 P BATE CODE	
CATION: T 28 R 1 Bec. 8 1/4 1/4 P 3 3 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
ND SURFACE 340 TOPO DEPTH 546 DRILLED 1980	
ELL OWNER: POPE AND TALBOT DEVELOPMENT, INC.	
WNER'S DESIGNATION WELL 4N USE	2
FORMATION SOURCE R+N 79-81 METHOD (ABLE	3
RILLED BY <u>STORY + ARM STORM</u> G CASING BIZE (8) <u>12 × 315.6</u> 800. <u>6</u> 315.6 - 329.7 /0 OMPLETION MODE <u>SCREEN</u> COMPLETION ZONE (6) <u>361.3 - 37</u> 7.1 10	
OMPLETION MODE SCREEN COMPLETION PORT 1.7 A	6
TIELD 94 A SPECIFIC CAPACITY 1.7 A VER CODE DATE 4/28/80 VER CODE	
AQUIFER TRANSMISSIVITY 3030 + 4280	
TORAGE COEFFICIENT	1/4 <u>P</u>
THER WATER BEARING ZONES PENETRATED	
	• •
OST CONSTRUCTION SWL MEASUREMENTS WITH DATES 154 A 5/8/8	, 30
VER. CODE VER. CODE	
DETAILED SUPPLEMENTARY FILES	
PUMP TEST DATA FILE <u>R+N 79-81</u> W/ RECOVERY MYDRGRA	<u>9PH</u>
GEOLOGIC LOG SEE BACK	
WATER CHEMISTRY R+N 79-81 OK	•
	N .
REMARKS	$\boldsymbol{\Sigma}$
Walden lane (westerly "extension	<u>n</u>
Malden Lane (westerly "extension of Walkin Way	<u>n</u>
Walden Lane (westernly "extension	<u></u>

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د. موريد

xeard Copy - Owner's Copy	SLL REPUEL Approxim		
1) OWNER: Name Pope & Talbot Development.Inc.	Address P.O. Box 75. Port Ludlow, V	IA 98365	
COUNTRY Jefferson		28 N. 81	E
og and distance from section or subdivision corner	(a) A second s second second s Second second secon second second sec		And and a state of the state of
3) PROPOSED USE: Domentic [Industrial] Municipal	(10) WELL LOG:	وی و در سیونیو کرد در د	
Irrigation [] Test Well [] Other []	Formation: Describe by color, character, size of man	Af the ensioning	d in sook
4) TYPE OF WORK: Owner's number of well 4N	stratum penetrated, with at least one entry for eac MATERIAL	n change of f	TO .
New weil 1 Method: Dug 🔲 Bored 🖸	brown to gray till		52
Despensed Cable I Driven C Reconditioned Rotary Jetted	brown, sandy, pebbly silt	52	131
	sand and gravel	131	151
5) DIMENSIONS: Dismeter of well 12 inches.	brown silty sand and gravel	151	157
Drilled	gray sandy silt	157	<u>171</u>
6) CONSTRUCTION DETAILS:	gray pebbly silt	171	267
Casing installed: 12 " Diam. from 0_ ft. to 31515 ft.	gray poorly sorted silty sand		
Threaded [] 10_" Diam. from 32912. ft. to 361_ ft.	and gravel	267	<u>269</u> 314
Welded X _10_" Diam. from 378_ ft. to 3881/2. ft.	unay penary sure	<u> </u>	314
Perforations: Yes Ci No Z	brown, poorly sorted medium to:	314	332
Type of perforator used	gray pebbly silt	332	360
SIZE of perforations in, by in	bray sand and gravel	360	366
perforations from ft. to ft	grav silty sand with some grave	the second s	380:-
perforations from ft. to ft.	and alloways as 1+	380	536
	weathered pebble conglomerate	536	544
Screens: Yes XI No C Menufacturer's Name UOP Johnson	gray pebble conglomerate (bedro	<u>ick) 544</u>	546
Type Pipe SizeModel No 304SS			
Diam Slot size . USU = 1000 . 315 . 4. to 3295; #			
Diem. 10 Blot size .080= 1130 361_ st. to 378_ st			<u> </u>
Gravel packed: Yes O No & Size of gravel:		<u>, }</u>	
Gravel placed from ft. to ft	TO DECEMENT	<u> </u>	
Surface seal: Yes X. No [] To what depth? 20 ft	KEVLIT		
Material used in seal CAMENT			
Did any stratz contain-unusable water? Yes 🗍 No 🛛	UUN 0.9 1980		
Type of water?			<u>}</u>
Method of sealing strate off	DEPARTMENT OF ECOLUGY	1980	
(7) PUMP: Manufacturer's Name	SOUTHWEST REGIONAL OFFICEIN		1
Тура:НР	UEPI. OF C		1
(8) WATER LEVELS: Land-surface elevation 372		100	
Static level 158.9 ft. below top of well Date 4/28/80	I LIGTON BIAMES 6/21	100	
Artesian pressure		t	
Artesian water is controlled by (Cap. valve, etc.)			
			<u> </u>
(9) WELL TESTS: Drawdown is amount water level is lowered below static level RODINSON.	Work started 3/18	4/29	<u> </u>
Was a pump test made? Yes IA. No II II yes, by whom?Noble, Car yield: 94 gal./min. with ~ 50.6 ft. drawdown after 17,67 hr	WELL DRILLER'S STATEMENT:		
4 and	This well was drilled under my jurisdic	tion and this	report is
19 18 19 3F	true to the best of my knowledge and beli	ef.	
Recovery data (time taken as zero when pump turned off) (water leve			
measured from well top to water level) Time Water Level Time Water Level Time Water Level	NAME Story/Armstrong Drilling (Person, frm, or corporation)	Type or	nrint)
<u>10 min. 172.6 50 168.35 155 164.8</u>	- 10711-10715 66th Ave. E		* * ******
<u>20 " 170.95 80 166.85 220 163.5</u>	Address 10/11-10/15 00cm Ave. L	· · /	الجنوب بالمراجع والمراجع والمراجع
<u>102.0 102.0 100.1</u>		in a	
Date of test4/28/80 - 4/29/80 er test-gal/min, withft, drawdown afterhr	[Signed]		
er testgal/min. withft. drawdown afterhr Artesian flowgpm. Date			
Temperature of water Was a chemical analysis made? Yes 🛱 No	License No	MAY 30	

(USE ADDITIONAL SHEETS IF NECESSARY)

Second Copy — Owner's Copy	LL REPORT Application FASHINGTON Permit No.		
(1) OWNER: Name Sichard Werner	Addres 660 Werner polate	In	
(2) LOCATION OF WELL: County Jefferson Bearing and distance from section or subdivision corner		8n., r	ERN M.
(3) PROPOSED USE: Domestic industriai i Municipal I Irrigation I Test Well i Other	(10) WELL LOG: Formation: Describe by color, character, size of materi- show thickness of aquifers and the kind and nature of	the mater	uu in each
(4) TYPE OF WORK: Owner's number of well	stratum penatraied, with at least one entry for each of MATERIAL	FROM	formation.
New well A Method: Dug Despend Despend Cable Driven	Brow Sandy Clay	0	8
(5) DIMENSIONS: Diameter of well inches	Ban sandy land pro	8	20
Drilled 57 ft. Depth of completed well 57	BundandyClag	20	25
(6) CONSTRUCTION DETAILS: Casing installed: <u>O</u> trom <u>O</u> tr to <u>157</u> tr.	groy sandy Clay	25	35
Threaded [] "Diam. from	graf landy lapt grand HP.	35	45
Perforations: Yes D No E	gray Andy Clay	45	55
SIZE of perforations in. by if.	Bhan Sandy Clay	55	100
perforations from	graf sandy Clay	100	135
Screens: Yes D No C	UB. portsandy Tay	135	155
Diam, Slot size from ft. to ft.	Charlend Grand	155	157
Diam Slot size from ft. to			
Gravel placed from ft. to ft.			
Surface seal: Yes p No republic septility of the second se			
Method of sealing strata off			
(7) PUMP: Manufacturer's Name			
(8) WATER LEVELS: Land-surface elevation 4/30 # above mean sea level 4/30 # Static level 6 # Static level 1			
Artesian pressurelbs. per square inch Date Artesian water is controlled by(Cap, valve, etc.)	·		
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 2-13 1985. Completed	2-21	1. 185
Was a pump test made? Yes No If yes, by whom? Yield: gal/min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction	and thi	s report is
<i>n</i> n n n	true to the best of my knowledge and belief.		-
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level) Time Water Level Time Water Level Time Water Level	NAME RICA 3) O BEKKC (Person, firm, or corporation)	(Type or	print)
	Address 2722 Hurf 10/85	XEG L 1	1m, C-
Date of test Bailer test 12.7 gal/min. with 10 It. drawdown after 13 hrs	[Signed] Dechard files	Ena	v -
Artesian flow	License No. 7.7.9 Date2-3	2./	, 1983

2

WNER: Name ROSS WITCR DCATION OF WELL: County JCFFERSON TREET ADDDRESS OF WELL (or nearest address) ICPOSED USE: Domestic Infigation Industriel ICPOSED USE: Domestic Infigation Other ICPOSED USE: Domestic Infigation Other ICPOSED USE: Domestic Infigation Other Infigation Infigation Infigation Infigation Infigation Infigation Infigation </th <th>(10) WELL LOG or ABANDONMENT PROCEDU Formation: Describe by color, character, size of material ar thickness of equifers and the kind and nature of the material in e with at least one entry for each change of information. MATERIAL CIAY, SANAY, GRAVELY HARDPOW CIAY, SANAY, GRAVELY</th> <th>RE DESI Ad atructure ach atracture PROME 0 10</th> <th>CRIPTION e, and show n penetrated, TO 10 30</th>	(10) WELL LOG or ABANDONMENT PROCEDU Formation: Describe by color, character, size of material ar thickness of equifers and the kind and nature of the material in e with at least one entry for each change of information. MATERIAL CIAY, SANAY, GRAVELY HARDPOW CIAY, SANAY, GRAVELY	RE DESI Ad atructure ach atracture PROME 0 10	CRIPTION e, and show n penetrated, TO 10 30
CATION OF WELL: County_JCFERSOM IREET ADDDRESS OF WELL (or nearest address)	(10) WELL LOG or ABANDONMENT PROCEDU Formation: Describe by color, character, size of material ar thickness of equifers and the kind and nature of the material in e with at least one entry for each change of information. MATERIAL CIAY, SANAY, GRAVELY HARDPOW CIAY, SANAY, GRAVELY	RE DESI ach structur ach stratur PROM 0	CRIPTION a, and show a penetrated, To 10 30
REET ADDDRESS OF WELL (or nearest address) IOPOSED USE: Domestic Imigation Industrial Municipal IOPOSED USE: Imigation Test Well Other Imigation DeWater Test Well Other 'PE OF WORK: Owner's number of well (if more than one) Bored Despend andoned New well Method: Dug Bored Driven Reconditioned Rotary Jetted Disted Driven Inchest MENSIONS: Diameter of well S/X Inchest Inchest Ied 126 Iest. Depth of completed well 126 tt	(10) WELL LOG or ABANDONMENT PROCEDU Formation: Describe by color, character, size of material ar thickness of equifere and the kind and nature of the material in e with at least one entry for each change of information. MATERIAL CIAY, SANAY, GRAVELY HARDPAN CIAY, SANAY, GRAVELY	RE DESI ach structur ach stratur PROM 0	CRIPTION a, and show n penetrated, TO 10 30
IOPOSED USE: Domestic Infigation Industrial Municipal DeWater Test Well Other 'PE OF WORK: Owner's number of well (If more than one) Other andoned New well Method: Dug Despend Cable Driven Driven Reconditioned Rotary Jetted MENSIONS: Diameter of well 176 Inchest	Formation: Describe by color, character, size of material ar thickness of equifere and the kind and nature of the material in e with at least one entry for each change of information. MATERIAL CAY, SANAY, GRAVELY HARDPAN CAY, SANAY, GRAVELY	rROM	e, and show n penetrated, TO 10 30
Imigation Imigation DeWater Test Well Other PE OF WORK: Owner's number of well (If more than one) Indoned New well Despend Cable Despend Reconditioned Reconditioned Reconditioned Six	Formation: Describe by color, character, size of material ar thickness of equifere and the kind and nature of the material in e with at least one entry for each change of information. MATERIAL CAY, SANAY, GRAVELY HARDPAN CAY, SANAY, GRAVELY	rROM	e, and show n penetrated TO 10 30
PE OF WORK: Owner's number of well (If more than one) andoned New well B Method: Dug Bored D Despend Cable Driven B Reconditioned Rotary Jetted Mensions: Diameter of well S/X inches Ied 176 feet. Depth of completed well 176 tt	thickness of equifers and the kind and nature of the material in e with at least one entry for each change of information. MATERIAL CAY, SANAY, GRAVELY HARDPAN CAY, SANAY, GRAVELY	PROM 0	TO 10 30
Indoned New weil IP Method: Dug Bored Driven Reconditioned Rotary Jetted MENSIONS: Diameter of weil S/X inches	MATERIAL CLAY, SANDY, GRAVEly HARDPOW CLAY, SANDY, GRAVEly	0	10 30
Despend Cable Driven Cable Methods Size Inches MENSIONS: Diameter of well Size Inches Ied 176 feet. Depth of completed well 176 ft	HARDASH / Clay, SANdy, GROVELY	10	30
Reconditioned Rotary Jetted MENSIONS: Diameter of well S/X inches led 176 feet. Depth of completed well 176 ft	HARDASH / Clay, SANdy, GROVELY	10	
led176_feetDepth of completed well176_ft			
led176_feetDepth of completed well176_ft	CLAU, SAMOU	30	130
		130	115
JARINUCIUN VEIALS:	Sand GRAVEL + H&D	145	126
sing installed; S/X Diam. from + / It. to 176			
ided	t		<u> </u>
eaded 🔲* Diam. from ft. to	t.	 	
			-
e of perforator used in, by			
— -·· F -·· ·· ·	n		
perforations from ft. to	n 8	 	<u>}</u>
	n. 👘 📊		
reens: Yes Nole			+
nufacturer's Name Model No Model No			
	n a state st		
mft. toft. toft.	R		
avel packed: Yee No Size of gravel	- <u></u>		
	tt.		
	n		
torial used in soal Bestbuite + Chay DRillings			
i any strata contain unusable water? Yes No Herricon Section of alrate	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
thod of sealing strata off	-		
UMP: Manufacturer's Name			
ра: H.P			
ATER LEVELS: Land-surface elevation 300+	.		
slip level 136 ft. below top of well. Date $1-16-96$)	+	
Ibs. per aquare inch Date			
(Cep, velve, sto.))	Work started - 5	15-	192
/ELL TESTS: Drawdown is amount water lavel is lowered below static lav			
eld; gel, /min. with it, drawdown after h	rs. L constructed and/or accept responsibility for CON	atruction	of this wel
	 and its compliance with all Washington well co Materials used and the information reported above 	ABIFUCTION	1 STENDERO
covery data (time taken as zero when pump turned off) (water level measured	knowledge and belief.		
im well top to water level) ne Water Level Time Water Level Time Water Level	NAME MALERRY Well DRillin	L CTYPE	OR PRINT)
	Address Pa Box 255 Quilcen	12.14	A. 903
	- Address free free free free		<u>, , , , , , , , , , , , , , , , , , , </u>
Date of test	(Signed) from the Malder License	No.	111_
			c
rtest gal./min. with stem set at ft. for I tesian flow g.p.m. Date	Nethelian Dial MJ Date - 18		, 19⁄

(USE ADDITIONAL SHEETS IF NECESSARY)

cond Copy - Owner's Copy	LL REPORT	Application No	
ird Copy — Driller's Copy STATE OF W	ASHINGTON	.3 11.	
1) OWNER: Name Hoss Citter		2 Climan	6
) LOCATION OF WELL: County Chrison	Kleh v SEe	34 Sec. 5 728	LEW.M.
earing and distance from section or subdivision corner			<u> </u>
) PROPOSED USE: Domestic V Industrial C Municipal	(10) WELL LOG:	-	
Irrigation 🗌 Test Well 🗌 Other	Formation: Describe by color, character show thickness of aquifers and the k		
A TYDE OF WORK. Owner's number of well	stratum penetrated, with at least on	e entry for each change of	JUINICEON
(if mare than one)	MATERIAL	FROM	
New well (1 Method: Dug (1 Hored) Decement (1 Cable (2 Driven (1	Bran Sondy Cl	ang 0	
Reconditioned 🛛 🔹 Rotary 🗍 Jetted 🗋		I lane d	25
5) DIMENSIONS: Diameter of well 6 inches.	grays any beg	and from y-	
Drilled 17.8 ft. Depth of completed well 128 st.	and an alusta	1 25	43
	grafsandy Cla	2	
6) CONSTRUCTION DETAILS:	Ban landelle	ay 33	80
Casing installed: O " Diam. from O tt. to O tt.	Contraction of the second	1	
Threaded D	anor sandy	tay 80	130
Welded	Tt 1		
Perforations: ye D No	Conce gray sera	alay 130	135
Type of perforator used		1 1/2 12/	+175
SIZE of perforations in. by in in ft. to ft.	gray granelys	angen 135	121
perforations from ft. to ft.	- Altor Ation	Dial 127	100
perforations from	gray woray	say 131	100
Same a state	Anthe Life Lill	101 151	170
Screens: yes D No 2/ Manufacturer's Name	fragming c	100	
Type Model No.	the B nay land	Alan 170	2 178
Diam, Slot size from ft. to ft.			
Diam. Slot size from ft, to ft.	Clim Landt the	vel 178	
Gravel packed: Yes D No & Size of gravel:	<u> </u>		
Gravel placed from			
Surface seal: Yes I No I To Anat Apply? 200 #			
Material used in seal fuddella comete	8		
Did any strata contain unueable water Yes 🗌 No 🗄			
Type of water?			
(7) PUMP: Manufacturer's Name			
Туре:			
(8) WATER LEVELS: Land-surface elevation 4.50			
Static level / 3.3			
Artesian pressure			
Artesian water is controlled by (Cap, valve, etc.)			
(9) WELL TESTS: Drawdown is amount water level is lowered below static level		35. Completed 1- 29	- 19 5
(9) WELL IESIS. lowered below static level Was a pump test made? Yes [] No [] If yes, by whom?	Work started		
Yield: gal./min. with ft. drawdown after hrs	WELL DRILLER'S STAT		
1) 1) 11 11 11 11	This well was drilled under true to the best of my know	r my jurisdiction and the	lis report
3.7 1.7 AL	- •	T / A	
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	"INAME RICH ard	DCKKOVA	<u>٢</u>
Time Water Level Time Water Level Time Water Level	(Person, firm, o	r corporation)	r print)
	" Address 2722 A	w/ 10/6 810	uim
		(nit	
Date of jest, 1-29-85	[Signed] Alchard	1 Mepber	ar
	Construct the second states of the	(Well Driller)	
Baller test 2 gal/min. with 3 ft. drawdown after hr		(هي.

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partment of Ecology bond Copy — Owner's Copy Ind Copy — Driller's Copy	WATER WEL STATE OF WA		Permit I	j σ	
R. J. AL			The second second	M. in	Wa
) OWNER: Namefuth (http	<u>s</u>			AN T	<u>ر بر الم</u>
) LOCATION OF WELL: County	gerin	S, <i>E</i> N, <i>E</i>	1. Ste 14 Sec J	T., N., R	.с
aring and distance from section or subdivision	!-	(10) WELL LOG:			
) PROPOSED USE: Domestic indu			or, character, size of ma	terial and stru	cture, and
		show thickness of aquifers stratum penetrated, with a	and the kind and natur	2 DT LRE MULETI	04 11 546.7
) TYPE OF WORK: Owner's number of (if more than one))	MAT	ERIAL	FROM	TO
New well Method Deepened	i: Dug 🔲 Bored 🛄 🗌 Cable 🛃 Driven 🗍	Bra Some	y clay	-0-	20
Reconditioned [Rotary D Jetted D	lit orallow	de Clart	2.5	40
) DIMENSIONS: Diameter of w		the figure	Fall		
Drilled 2 4 2	et weil2.11.	Befin Bran Att	lift by	140-	30
) CONSTRUCTION DETAILS:	all	time Bow A	andit Clark	0	105
Casing installed; 2 " Diam. from .		un jui	the first		
		Conse Der	Jandy Clay	105	135
Welded	the second secon		1 1-	1 1210	1
Perforations: yes 🗆 No 🛃		Orn sarary	tag + grout	وونغ	14.2
Type of perforator used	n. by in.	Ben land	Ichar _	145	158
perforations from		1	Alim		
perforations from	ft. to ft.	Bin sand	yfaid pan		170
		0 100	Intal	170	200
Screens: Yes No Manufacturer's Name	,	Bun sara	they		
Туре	Model No	UB, Bron Sond	Clayf grown	200	211
Diam. Slot size from Diam. Slot size				`	
		<u></u>			
Gravel packed: Yes D No & Size Gravel placed from	ft, to ft.			- 70	
	10		<u> </u>	<u> </u>	
Material used in seal				<u> </u>	
Did any strata contain unusable wa	ter Yes V No B				
Type of water? Dept	h of struta				
Method of sealing strata off	······································				
(7) PUMP: Manufacturer's Name	U D				
Type:		 	```		
(8) WATER LEVELS: Land-surface c	a level		······-		-
static level 19 / the per square	inch Date		<u> </u>		
Artesian pressure					
(9) WELL IESIS: lowered below (Work started //	2./ . 19.84 Complete	12- 0	
real a participation of the state of the sta	wdown after hrs.	WELL DRILLER'	S STATEMENT:		
Yield: gal/min. with R. ura	17 12	This well was dri	led under my jurisdi	ction and th	is report
**	te 94	true to the best of n	ny knowledge and be	anei.	
Recovery data (time taken as zero when pumy measured from well top to water level)	p turned off) (water level	NAME RICH J	rd Bekk	rerar	-
Time Water Level Time Water Level	l Time Water Level	(Perio	n, firm, or corporation)	(Type or	print)
		Address 2722	Ruy 10/6	Jegul	mu
		1	Pin	11	1 min
Date of test Bailer testgal/min. withft. di	11	[Signed]	Land 12	lpp	vecc
			1.001001111111111	- 4 8	

WATER WELL REPORT	WAT	ER	WELL	. REP	ORT
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START CARD NO

W129124

AEC_960_ UNIQUE WELL I D # __ STATE OF WASHINGTON WATER RIGHT PERMIT NO (1)OWNER: Name Chris Baschab P.O. Box 65056 Port Ludlow, Wa, 98365 Address (2) LOCATION OF WELL: County _ Jefferson _NE_1/4 _SW_1/4 Sect _8_ T_28N_ R_1E_WM (2a) STREET ADDRESS OF WELL (or nearest address) 231_Coursey_Lane_Port_Ludlow____ PROPOSED USE: Domestic Dirrigation Other (10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION 🛛 Industria) 🗍 DeWater Municipal D Test Well Formation Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change TYPE OF WORK: Owner's number of well (If more than one) (4) 1 of information 🛛 New Weil Method Dug Bored MATERIAL FROM то Abandoned 🛛 Cable 📋 Driven 35 Rotary Jetted Brown_hard_clay_gravel 0 Reconditioned Gray_cemented_gravel_ 35 45 45 56 Brown_packed_sand_&_clay___ (5) DIMENSIONS: 6" Diameter of well inches 56 69 Brown_very_fine_sand, packed, dry____ 276 Drilled _____275___ feet Depth of completed well feet 69 Brown_sandy_clay___ .75 CONSTRUCTION DETAILS: (6) 75 102 Brown_silty_clay____ Casing installed _6"_ diam From ____ ______ft To <u>___271-10____</u>ft 102 137 Brown very fine sand, loose, dry 🛛 Welded _5"_ dram From ___269-1___ft To ___270-10___ft Liner 137 151 Brown_packed_sand &_small_gravel ft To _____ diara From ft Threaded Brown tight sand, small gravel, seepage 151 162 🗆 Yes 🛛 No Perforations 162 Brown_sandy_clay_dry_ 177 Type perforator used ... 177 189 Light_gray_sandy_clay,_firm___ Size of perforations in by..... Brown_sandy_clay,_firm____ 189 .201 ft To _ perforations From ____ 201 212 Blue_clay__ ____ perforations From ______ ft To ____ 212 217 Blue_sandy_clay___ perforations From ______ ft To _____ 217 224 Blue_sandy_firm_clay,_stratified,_seepage____ Screens M Yes In No. 224 230 Blue_sandy_clay____ Manufacture's Name ____Johnson Blue_silty_clay___ 230 246 Type _____Stainless V-Slot Model No 246 250 Blue_fine_sand,_stratified,_dirty____ Diam <u>5</u>" Slot size 010 From <u>270-10</u> ft To <u>276</u> 250 260 .ight_brown_sandy_clay___ Diam ______ Slot size _____ From _____ ft To 260 266 Light brown_sandy, gravely clay___ Diam _____ Slot size _____ From ____ ft To 266 Brown_med_&_coarse_sand__W/B_ 271 Gravel packed 📋 Yes 🖄 No Size of gravel ___ Brown med & coarse sand, pea gravel, W/B____ 271 275 Gravel placed from ___ft To__ _ ft 275 Brown_tight_gravel,_clay,_no_flow_ Surface seal 🛛 Yes 🗌 No To what depth? 25 ft Med Chip Bentonite Material used in seal Well Yield Note Well has intermittent yields down to 3 gpm Did any strata contain unusable water? 📋 Yes 👩 No from a average yield of 10 plus gpm do to high pumping rate Type of water Depth of strata of Pope Resource well located aprox. 900 feet from this well. Method of sealing strata off 4 PUMP: Manufacture's Name Type НP DEC 1 4 2001 (8) WATER LEVELS: Land surface elevation above sea level 430 ft Static level _____226-5_____ ft below top of well Date May 15, 2001 Washington State Artesian pressure lbs per square inch Date Department of Ecology Artesian water is controled by (Cap, valve, etc.) Worked started _____Mar_28, 2001_ Completed May 15, 2001 (9) WELL TEST: Drawdown is amount water level is lowered below static level Was a pump test made?
___ Yes 🛛 No ___ if yes,by whom? WELL CONSTRUCTOR CERTIFICATION: Yield _____gal/min_with ____ _ ft_drawdown after _ hrs I constructed and/or accept responsibility for construction of this well, and its Yield _____gal/min with ___ ft_drawdown after __ hrs compliance with all Washington well construction standards. Materials used hrs Yield _ gai/min_with _ _ ft_drawdown after _ and the information reported above are true to my best knowledge and belief Recovery data (time taken as zero when pump turned off) (water level measured NAME Charlie's Drilling from well top to water level) (Person, Firm, or Corporation) Water Level Time Time Water Level Time Water Level Address P.O. Box_127 Port Hadlock_WA. 98,3739 all (Signed) License No. 0458 (Well Driller) Date of test Bailer test 3_____ gal /min_with _____44-7____ ft_drawdown after ____ Contractor's Registration No. _____ CHARLD*066 OO 2 hrs _____ gal /min with stem set at ______ ft for _____ hrs Airtest Date _____ May 16, 2001 Artesian flow _____ gal /min Date May 11, 2001

Was a chemical analysis made? 👘 📋 Yes 👩 No

Temp of water

the Original and First Copy with repariment of Ecology econd Copy — Owner's Copy hird Copy — Driller's Copy STATE OF W			
1) OWNER: Name FRANK L WOOD RUFF			•
2) LOCATION OF WELL: County JAFF.			
earing and distance from section or subdivision corner		81	-[
3) PROPOSED USE: Domentic 🖉 Industrial 🗆 Municipal 🗆	(10) WELL LOG:		<u> </u>
3) PROPOSED USE: Domestic J Industrial [] Municipal [] Irrigation [] Test Well [] Other []	Formation: Describe by color, character, size of mater	al and stru	ture, and
	show thickness of aguifers and the kind and nature of stratum penetrated, with at least one entry for each	the materi	al in each
4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL	FROM	TO
New well 🎢 Method: Dug 🗍 Bored 🗍 Deepened 📋 — Cable 🗍 Driven 🗍	RILAY H.P.	0	11_
Reconditioned 🗌 Rotary 😭 Jetted 🗖	Sandy H.P.	19	<u>A</u>
5) DIMENSIONS: Diameter of well inches	MAIN'N SANAT CIAY	50	110
Drilled 1.2.2 ft. Depth of completed weil 19.1 ft.	LAREC AVERA HARD RE	1110	115
	Gray SANdy CLAY	115	112
6) CONSTRUCTION DETAILS:	BYOWNSAND - HED	182	117
Casing installed: <u>June</u> Dism. from <u>T</u> . it. to <u>J. T.S.</u> ft. Threaded []	PLA EVANAL HO	187	111
Welded 2	<u>H</u> , P ;	192	
Perforations: Yes C No B			
Type of perforator used			
SIZE of perforations in, by in.			·
perforations from			
perforations from	· · · · · · · · · · · · · · · · · · ·		
Manufacturer's Name			
Type Model No			
Diam. Slot size from from ft. to ft.		_	
		_	
Gravel packed: Yes No L Size of gravel;			
Surface seal: Yes g No To what deptht 20 ft. Material used in seal BANTANITE + Prillings			
Did any strata contain unusable water? Yes 🗋 No 💐			
Type of water?			
Method of sealing strata off			
(7) PUMP: Manufacturer's Name			<u>.</u>
Туре:н.Р			
(8) WATER LEVELS: Land-surface elevation 300 et.	L		
Static level ft. below top of well Date TAN &- 19 Artesian pressure Ibs. per square inch Date	<u>p</u>		
Artesian water is controlled by			
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started		
Was a pump test made? Yes i No 🛱 If yes, by whom?	WELL DRILLER'S STATEMENT:		
Yield: gal/min. with n. drawdown after file.	This well was drilled under my jurisdiction	1 and this	report is
در را	true to the best of my knowledge and belief.		
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level) Time Water Level Time Water Level Time Water Level	NAME Haal Canal Quell	(Type or	rint)
	Address BT 2, By 693A D	uil.	· · ·
	Address. (1]		wi,
Date of test	[Signed] Ju / malasang (Well Drillery		
Bailer text 2 Q gal/min, with D ft. drawdown after. J hrs.	(Well Drivery		
Artesian flow	License No. Q. 1. 8 5 Dates TA	416	ى7ە:

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the Original and First Copy with epartment of Ecology econd Copy - Owner's Copy	WATER WE	LL REPORT	Applical		,
hird Copy — Driller's Copy	STATE OF W			lo	
1) OWNER: Name R. T. Moran		Address Rt. 1. Be	ox 604-D port	Ludlow.	
2) LOCATION OF WELL: County	Jefferson	Taxle	N. N. E. Sec. 8	T. 20 N. R.	. I.Е w.м.
earing and distance from section or subdivision co					
		(10) WELL LOG:			_
3) PROPOSED USE: Domestic I Indu Irrigation [] Test		Formation: Describe by co	lor, character, size of ma	terial and struct	cture, and al in each
		show thickness of aquifers stratum penetrated, with	at least one entry for ed		
I) TYPE OF WORK: Owner's number of (if more than one)	I . C I . INC I preserve and the	MA	TERIAL	FROM	то
New well I Method:	Dug 🗍 Bored 🗍 Cable 🖬 Driven 🚺	Brown top sol	L	0	
Despend	Rotary [] Jetted []	Brown sandy c	lay	1	11
		Erown sandy g		11	25
5) DIMENSIONS: Diameter of we	$\frac{6}{100}$	large roc.	<u> </u>	25	83
Drilled 290 10 ft. Depth of complete	a well 290'10'	Brown clay		83	128
6) CONSTRUCTION DETAILS:		Brown gritty		128	138
Casing installed: Diam. from	0 n. w 288 n.	Brown sandy c Brown sand &		138	142
Threaded []	28.5tt. to99	Brown dry gra		142	169
Welded I	n. to ft.	Brown sandy c		169	182
Perforations: Yes D No I		Brown fine dr			197
Type of perforator used		Brown dry lar	ge gravel &		<u> </u>
SIZE of perforations	1. by 12.	coarse sa			199
perforations from		Greenish brow			218
perforations from	ft. to ft.	particke	<u>s </u>	218	241
	· · · · · · · · · · · · · · · · · · ·	Gray clay		241	256
Screens: Yes A No D	n	Greenish silt Greenish brown	<u>y clay</u>		
_ Stainlage Steel 1	Hodel No		(some seepage	1 256	270
Diam 5 5/ Slot aize 020 from2	851811. 10 290-10	Greenish brow		270	287
Diam	ft. to ft.	Blue coarse s			
	of gravel;	gravel W/B	Static approx	ζ.	
Gravel packed: Yes D No Z Size Gravel placed from		215		287	289
		Greenish brow	m clan	289_	
Surface seal: Yes I No I To what	t depth?		<u> </u>		
Material used in seal Bentonit Did any strata contain unusable wat	ter? Yes 🗍 No 🖺		<u> </u>	+++	
Type of water? Depth	a of strata		- Or -	VFN	
Method of sealing strata off			OFPer 2		
(7) PUMP: Manufacturer's Name			SOUTHWEST NT OF ECTONAL	970	
Type:	HP		ST DO OF		
			GTONACO	100	
(8) WATER LEVELS: Land-surface el above mean sea Static level	rate 6/30/78		The g		.
Artesian pressure	inch Date			"LF	
Artesian water is controlled by	(Cap valve etc.)	,			
		·		6/70	
(3) WELL LEGIS. lowered below si		Work started 6/1	9	ed 0/ 20	
	y whom?		S STATEMENT:		
viela: Berstitut, stat	vdown after hrs	This wall was dr	illed under my jurisdi	iction and th	is report
	17 A1	true to the best of	my knowledge and be	elief.	
Recovery data (time taken as zero when pump	turned off) (water leve	n l		.	
measured from went top to which have	1		Drilling Co., on, firm, or corporation)	., InC (Type of	print)
Time Water Level Time Water Level			ox 161 Sequi		
		[Signed] Jalu	Well Drill	Preside	nt 04'
Date of test	awdown after		(Weli Drill	er)	
g.n.m. Dat	te		rk 0458 Date	7/10	19
Temperature of water. 49. Was a chemical an	nalysis made? Yes 🗌 No	Sub Contrac	tor-Bill Webe	r 0535	
		Trahama Mal	l Drilling		

(USE ADDITIONAL SHEETS IF NECESSARY)

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C	(ATE) DEPARTMENT Division of	OF CON		, MC	· · (
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