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August 22, 2001

Mr. Gary Sybouts Lincoln Avenue Car Wash 302 North First Street Yakima, Washington 98902

## Clayton Project No. 90-01056.00

Subject: Report of Subsurface Investigation Activities and Soil and Groundwater Sampling Results – Lincoln Avenue Car Wash, 302 North First Street, Yakima, Washington

Mr. Sybouts:

Clayton Group Services, Inc. (Clayton) is pleased to present this letter report summarizing the May and July 2001 subsurface investigation activities and results for the Lincoln Avenue Car Wash at 302 North First Street, Yakima, Washington (the site). Figure 1 shows a partial topographic map indicating the site location. The site is an operating gasoline station and car wash with two active underground storage tanks (USTs).

#### BACKGROUND

Four petroleum underground storage tanks (USTs) were excavated and removed from the site during March 1997, including: two 10,000-gallon unleaded gasoline USTs, one 5,000-gallon premium unleaded gasoline UST, and one 4,000-gallon unleaded plus UST, reportedly used to store leaded gasoline (IT, 1997). Approximately 1,035 cubic yards of petroleum contaminated soil (PCS) were reportedly removed from the UST excavation and transported to Anderson Demolition Pits for treatment and subsequent re-use as construction material. Figure 2 provides a map of the site showing the current layout and the former UST locations.

A reported release of approximately 470 gallons of gasoline in August 1996 from the 4,000-gallon UST promulgated the UST excavation and removal work performed during March 1997. Confirmation soil sampling reported total petroleum hydrocarbon (TPH) concentrations below the State of Washington Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A Cleanup Levels. It was also reported that groundwater does not appear to have been impacted (IT, 1997).

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However, a subsequent report (Sturza, 1999) indicated the presence of petroleum compounds and lead in groundwater above MTCA Method A Cleanup Levels.

The site is located in the Yakima Valley of central Washington State. The ground surface slopes generally to the southeast. The geologic unit underlying the site and vicinity consists of outburst flood deposits (silt and sand). The unit is dominated by: 1) lacustrine silt and fine sand deposited by low energy slack water of outburst floods from glacial Lake Missoula and other ice-margin lakes; and, 2) fluvial fine- to coarse-grained sand deposited by sporadic channel fill events. The geologic unit underlying the silt and sand deposites consists of extensive theolitic basalt flows of the Columbia River Basalt Group.

The regional and shallow groundwater flow direction is inferred to be southeast, based on surface topography. However, topography is not always a reliable basis for predicting groundwater flow direction.

## **PURPOSE**

The purpose of the on-going subsurface investigation is to evaluate current site conditions and determine if subsurface impacts to soil and groundwater have occurred. Following the assessment of soil and groundwater conditions, a remediation strategy can be developed (if necessary) and accurate estimates for achieving closure can be prepared.

## SCOPE OF WORK

The scope of work included:

- Reviewing historical environmental site reports and data, and developing a sampling plan to assess potentially impacted soil and groundwater at the site.
- Conducting soil and groundwater sampling at the site to evaluate the extent of petroleum hydrocarbons in the subsurface.
- Installing four monitoring wells to evaluate groundwater quality and the direction of groundwater flow at the site.

The procedures used for the field activities are described below, as well as the results of the field observations and laboratory analyses. The soil boring and monitoring well logs are included in Attachment A, and the laboratory analytical reports are included in Attachment B.



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## **Soil Sampling Activities**

On May 24, 2001, Mr. Greg Ferris, Clayton Project Geologist, supervised the drilling of five soil borings (B-1 through B-5) at the site. The five soil borings, ranging in depth from 4 to 17 feet below ground surface (bgs), were drilled by Environmental Services Northwest (ESN) using a Strata-Probe direct-push drilling rig. Due to the nature of the geology encountered at the site (silty sand with large cobbles and boulders), the soil borings could not be advanced to the water table using the direct-push drilling rig. Figure 3 shows the soil boring locations and Attachment A contains the boring logs for the five soil borings (B-1 through B-5).

Soil boring B-1 was drilled approximately 20 feet west of the former 4,000-gallon UST, west of the current dispenser islands. Soil boring B-2 was drilled approximately 20 feet north of the former 4,000-gallon and 5,000-gallon USTs, north of the current dispenser islands. Soil boring B-3 was drilled approximately 15 feet north of the former 10,000-gallon USTs, north of the current USTs. Soil boring B-4 was drilled approximately 10 feet east of the former 10,000-gallon USTs, 5 feet east of the current USTs. Soil boring B-5 was drilled approximately 10 feet south of the former 10,000-gallon USTs, 10 feet south of the current USTs, and 20 feet east of the current dispenser islands.

During drilling of the borings, soil samples were collected continuously with a splitspoon sampler for field screening and laboratory analysis. The soil samples were placed in Zip-Loc plastic bags, sealed, allowed to volatilize for at least 20 minutes, and analyzed using a photoionization detector (PID). The soil sample exhibiting the highest PID reading from each soil boring was then submitted for laboratory analysis of: TPH as gasoline using Northwest Method NWTPH-G; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and lead using EPA Method 6010. Clean latex gloves were worn as the soil samples for laboratory analysis were placed into laboratory-supplied four-ounce glass jars with Teflon-lined lids. The soil samples were labeled, placed in a cooler with ice, and transported to CCI Analytical Laboratories for analysis following standard chain-of-custody procedures.

## **Monitoring Well Installation Activities**

On July 14, 2001, Cascade Drilling (Cascade) mobilized a CME-75 hollow-stem-auger drilling rig to the site to install monitoring wells for the purposes of assessing groundwater conditions at the site. However, three attempts to drill at the site using the CME-75 hollow-stem-auger drilling rig resulted in refusal (large boulders) at 7 feet bgs. Based on the hollow-stem-auger drilling results, an air-rotary (ODEX) drilling rig was mobilized to the site to install the monitoring wells.

On July 22, 2001, Mr. Greg Ferris, Clayton Project Geologist, supervised the installation of four monitoring wells (MW-1, MW-2, MW-3 and MW-4) at the subject property



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(Figure 3). The four 2-inch diameter, 26- to 27-foot-deep monitoring wells were installed by Cascade using an ODEX drilling rig. Figure 3 shows the location of the four monitoring wells installed at the site and Attachment A contains the well logs. The soil cuttings generated during drilling were containerized in 55-gallon drums and removed by Emerald Services during August 2001 for proper disposal.

Monitoring well MW-1 was installed east of the former 4,000- and 5,000-gallon UST's and current dispenser islands, and south of the former 10,000-gallon USTs and current USTs. Monitoring well MW-2 was installed in the sidewalk east of the former 10,000-gallon USTs and current USTs. Monitoring well MW-3 was installed in the sidewalk south of the former 5,000-gallon UST, south of the southeast dispenser island. Monitoring well MW-4 was installed in the sidewalk south of the former 4,000-gallon UST, south of the southeast dispenser island.

During drilling of the monitoring wells, soil samples were collected at five foot intervals from the cuttings discharged by the ODEX drilling rig. The soil samples were placed in Zip-Loc plastic bags, sealed, allowed to volatilize for at least 20 minutes, and analyzed using a PID. The soil sample exhibiting the highest PID reading from each monitoring well was then submitted for laboratory analysis of TPH as gasoline, BTEX, and lead. Clean latex gloves were worn as the soil samples for laboratory analysis were placed into laboratory-supplied four-ounce glass jars with Teflon-lined lids. The soil samples were labeled, placed in a cooler with ice, and transported to CCI Analytical Laboratories for analysis following standard chain-of-custody procedures.

The monitoring wells were generally constructed using 20 feet of two-inch diameter PVC screen (0.01-inch slot) and 6 to 7 feet of two-inch diameter PVC casing. A silica sand filter pack was poured into the annulus to a depth approximately two feet above the top of the screened interval. A hydrated bentonite seal was then placed above the filter pack. The top of casing is approximately 0.5 feet bgs and is covered with a locking-type 8-inch-diameter manhole set in concrete.

The monitoring wells were developed by submersible pump following installation. Two 55-gallon drums of monitoring well purge water were generated during development and sampling of the monitoring wells. During August 2001, Emerald Services removed and transported the drums of water from the site (along with the soil drums) for proper disposal.

## Groundwater Sample Collection

On July 22, 2001, monitoring wells MW-1, MW-2, MW-3 and MW-4 were surveyed and gauged to determine the depth to groundwater and the direction of groundwater flow at the site. The depth to groundwater ranged from 13.37 to 14.07 feet bgs. Table 1



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summarizes the survey and groundwater level data. Figure 4 provides a water table elevation map indicating a northeast direction of groundwater flow beneath the site. Based on a discussion with Mr Norm Hepner of Ecology's Central District Office in Yakima, the direction of groundwater flow at the site may be influenced by leaking irrigation lines underneath downtown Yakima. During the irrigation season, leaks from the irrigation lines reportedly flood basements in the downtown area and may influence the direction of groundwater flow at the subject property.

On July 22, 2001, groundwater samples were collected from the four monitoring wells for analysis of TPH, BTEX, methyl tert-butyl ether (MTBE), and lead. The groundwater samples were collected from the monitoring wells using clean plastic disposable bailers after purging a minimum of three casing volumes of water. The groundwater samples were placed into two 40-milliliter glass vials (preserved with hydrochloric acid) and one 0.5-liter plastic bottle (preserved with nitric acid). The groundwater samples for lead analysis were filtered in the field using a 0.45 micron high capacity disposable filter prior to preserving with nitric acid.

The groundwater samples were labeled, placed in a cooler with ice, and transported to CCI Analytical Laboratories for analysis following standard chain-of-custody procedures. Prior to collecting the groundwater samples, approximately 25 gallons of groundwater was removed from each monitoring well and containerized in 55-gallon drums.

#### **RESULTS**

The geology encountered during drilling of the soil borings and monitoring wells during May and July 2001, revealed the subject property is generally underlain by a brown coarse- to fine-grained silty sand (SP) with large cobbles and boulders from 1 to 27 feet bgs. The soils encountered at the site were classified using the Unified Soil Classification System (ASTM Designation D-2487). During drilling, the soils became moist to wet at 17 feet bgs. Following installation of the monitoring wells, the groundwater level rose to approximately 14 feet bgs. The direction of shallow groundwater flow beneath the site was determined to be northeast. However, the direction of groundwater flow at the site may be influenced by leaking irrigation lines beneath downtown Yakima.

#### Laboratory Analytical Results

Tables 2 and 3 summarize the laboratory analytical results for the soil and groundwater samples collected on May 24 and July 22, 2001, respectively. The 2001 MTCA Method A Cleanup Levels have been included in the table for reference. Copies of the laboratory analytical reports are included in Attachment B.



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The soil laboratory analytical results indicated TPH as gasoline and BTEX concentrations below laboratory reporting limits, below MTCA Method A Cleanup Levels, for all soil samples submitted. Laboratory analytical results also indicated the presence of lead (38 mg/kg) in the 1- to 4-foot sample (052401-S4) collected from boring B-4, and lead (59 mg/kg) in the 4- to 7-foot sample (052401-S5) collected from boring B-5, which are below the MTCA Method A Cleanup Level of 250 mg/kg for lead in soil.

The groundwater sample collected from MW-1 (072201-GW1) indicated the presence of benzene (8 ug/l), which is above the MTCA Method A Cleanup Level of 5 ug/l for benzene in groundwater. The groundwater laboratory analytical results indicated TPH as gasoline (580 ug/l) in the groundwater sample (072101-GW1) collected from MW-1, which is below the MTCA Method A Cleanup Level of 800 ug/l for TPH as gasoline in groundwater when benzene is present. Ethylbenzene (14 ug/l) and xylenes (50 ug/l) were also detected in the groundwater sample collected from MW-1 (072201-GW1), which are below MTCA Method A Cleanup Levels.

The groundwater sample collected from MW-3 (072201-GW3) indicated the presence of TPH as gasoline (240 ug/l), ethylbenzene (4 ug/l), and xylenes (15 ug/l), which are below MTCA Method A Cleanup Levels.

The groundwater samples collected from MW-2 (072201-GW2) and MW-4 (072201-GW4) indicated TPH as gasoline, BTEX, MTBE and lead concentrations below laboratory reporting limits, which are below MTCA Method A Cleanup Levels.

## **CONCLUSIONS AND RECOMMENDATIONS**

A release of approximately 470 gallons of gasoline reportedly occurred at the site during August 1996. Four USTs were excavated and removed from the site during March 1997. Approximately 1,035 cubic yards of petroleum contaminated soil was excavated, removed from the site, and transported to Anderson Demolition Pits for recycling.

The depth to groundwater encountered at the site during the July 2001 subsurface investigation activities ranged from 13 to 14 feet bgs; however, groundwater was not observed at 17 feet bgs during drilling in May 2001. The direction of groundwater flow at the site was determined to be northeast; however, leaks from irrigation lines underneath downtown Yakima may influence the direction of groundwater flow at the subject property during the summer irrigation season.

The soil laboratory analytical results indicated TPH as gasoline, BTEX and lead concentrations below MTCA Method A Cleanup Levels.



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Groundwater sampling analytical results indicated a benzene concentration above the MTCA Method A Cleanup Level in monitoring well MW-1 (8 ug/l). No other groundwater samples collected during July 2001 indicated TPH, BTEX, MTBE or lead concentrations above MTCA Method A Cleanup Levels.

Clayton recommends performing additional gauging and sampling of the monitoring wells following the irrigation season to determine if the direction of groundwater flow and/or groundwater quality is influenced by the irrigation line leaks underneath downtown Yakima.

Following the additional gauging and sampling, Clayton recommends installing one additional monitoring well east of boring B-3 to assess groundwater conditions northeast of the former USTs and current dispenser islands, and north of the current USTs.



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#### **LIMITATIONS**

The information and opinions rendered in this letter report are exclusively for use by Mr. Gary Sybouts (Lincoln Avenue Car Wash) and Zurich Insurance. Clayton Group Services will not distribute this report without your consent except as may be required by law or court order. The information and opinions expressed in this report are given in response to our limited assignment and should be evaluated and implemented only in light of that assignment. We accept responsibility for the competent performance of our duties in executing the assignment and preparing this report in accordance with the normal standards of our profession but disclaim any responsibility for consequential damages.

Thank you for the opportunity to work on this project with you. If you have any questions, please call John Rohde at (303) 988-2585 or myself at (206) 763-7364.

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Carely Ferry

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Reviewed by:

John A. Rohde, R.G. Senior Hydrogeologist Environmental Services Denver Regional Office

Attachment A – Boring Logs Attachment B – Laboratory Analytical Reports

Cc: Ms. Dawn Heistand, Zurich American Insurance

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## FIGURES

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TABLES

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## TABLE 1. LIQUID LEVEL GAUGING DATA SUMMARY.

Lincoln Avenue Car Wash, 302 North First Street, Yakima, Washington

				Clayton Proj	ect # 90-01056
Location	Date	Total Depth <u>(Ft bgs)</u>	TOC Elevation (Ft)	DTW ( <u>Ft BTOC)</u>	Water Table <u>Elev. (Ft)</u>
MW-1	07/22/01	26.5	1069.63	13.61	1056.02
MW-2	07/22/01	27	1070.00	14.06	1055.94
· MW-3	07/22/01	26	1069.55	13.37	1056.18
MW-4	07/22/01	26.5	1069.94	13.74	1056.20

MW = Monitoring Well bgs = Below Ground Surface TOC = Top of Casing BTOC = Below Top of Casing DTW = Depth to Water



# TABLE 2. SUBSURFACE INVESTIGATION SAMPLING RESULTS SUMMARY- MAY 24, 2001.Lincoln Avenue Car Wash, 302 North First Street, Yakima, Washington

SOIL SAM	PLING R	ESULTS						, . Claytor	n Project # 9	0-01056
			<u>TPH-Gas</u> (mg/kg)	<u>Benzene</u> (mg/kg)	<u>Toluene</u> (mg/kg)	<u>Ethylbenzene</u> (mg/kg)	<u>Xylenes</u> (mg/kg)	<u>MTBE</u> (mg/kg)	<u>Lead (Pb)</u> (mg/kg)	<u>PID</u> (ppm)
MTCA M	ethod A C	leanup Level =	100	0.03	7	6	9	0.1	250	<u> </u>
Boring ID	Depth	Sample ID								
B-1	7-10'	052401-S1	<5	<0.1	<0.1	<0.1	<0.3	NA	· <15	91 <b>.</b> 3
B-2	7-10'	052401-S2	<5	<0.1	<0.1	<0.1	<0.3	NA	<16	1.0
B-3	4-7'	052401-S3	<5	<0.1	<0.1	<0.1	<0.3	NA	<13	1.3
B-4	1-4'	052401-S4	<5	<0.1	<0.1	<0.1	<0.3	NA	38	0.9
B-5	4-7'	052401-S5	<5	<b>&lt;0.1</b>	<0.1	<0.1	<0.3	NA	59	1.1

MTCA = Model Toxics Control Act

TPH = total petroleum hydrocarbons

MTBE = methyl tert-butyl ether

NA = not analyzed

mg/kg = milligrams per kilogram or parts per million (ppm)

ppm = parts per million

PID = photoionization detector



## TABLE 3. SUBSURFACE INVESTIGATION SAMPLING RESULTS SUMMARY- JULY 22, 2001.Lincoln Avenue Car Wash, 302 North First Street, Yakima, Washington

#### SOIL SAMPLING RESULTS

Clayton Project # 90-01056

MTCA M	ethod A Cl	eanup Level =	<u>TPH-Gas</u> ( <u>mg/kg)</u> 100	<u>Benzene</u> (mg/kg) 0.03	<u>Toluene</u> (mg/kg) 7	<u>Ethylbenzene</u> ( <u>mg/kg)</u> 6	<u>Xylenes</u> (mg/kg) 9	<u>MTBE</u> <u>(mg/kg)</u> 0.1	<u>Lead (Pb)</u> (mg/kg) 250	<u>PID</u> (ppm)
Boring ID	<u>Depth</u>	Sample ID								
MW-1	14-16'	072201-S1	<5	<0.1	<0.1	<0.1	<0.3	NA	<8	0.4
MW-2	9-11'	072201-S2	<5	<0.1	<0.1	<0.1	<0.3	NA	<7	0.7
MW-3	9-11'	072201-S3	<5	<0.1	<0.1	<0.1	<0.3	NA	<7	1.3
MW-4	9-11'	072201-S4	<5	<0.1	<0.1	<0.1	<0.3	NA	<11	0.5

## GROUNDWATER SAMPLING RESULTS

			<u>TPH-Gas</u> (ug/l)	<u>Benzene</u> (ug/l)	<u>Toluene</u> (ug/l)	<u>Ethylbenzene</u> (ug/l)	Xylenes (ug/l)	<u>MTBE</u> (ug/l)	Dissolved <u>Lead (Pb)</u> (ug/l)	
MTCA Me	ethod A C	Cleanup Level =	800	5	1,000	. 700	1,000	20	15	
<u>Boring ID</u>	<u>Depth</u>	Sample ID								
MW-I	13.5	072201-GW1	580	8	<1	14	50	<3	<4	
MW-2	14	072201-GW2	<5	<1	<1	<1	<3	<3	<4	
MW-3	13.5	072201-GW3	240	<1	<1	4	15 <sup>°</sup>	<3	<4	
MW-4	13.5	072201-GW4	<5	<1	<1	<1	<3	<3	<4	

MTCA = Model Toxics Control Act

TPH = total petroleum hydrocarbons

MTBE = methyl tert-butyl ether

NA = not analyzed

mg/kg = milligrams per kilogram or parts per million (ppm)

ug/l = micrograms per liter or parts per billion (ppb)

ppm = parts per million

PID = photoionization detector

Results in **BOLD** = Above MTCA Method A Cleanup Level

Clayton GROUP SERVICES

# ATTACHMENT A

## **BORING LOGS**

	<b>Clayton Bori</b>	ng			B	-1	]			
Final depth	16 feet BGS	fit	R	Soli	N	Soil Type	Color	Soli Moisture	Comment	FID ppm
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		2								
Chant	Zurich Insurance	┓┝──								{
Cuent										
		4		SP		Sand with some silt, clay and large	Brown	Drv	Slight	68
		1			ļ	cobbles		<b>,</b>	Petroleum	
Project No.	90-01056.00								Odor	
	T	╢╴								
Sile	Lincoln Avenue Car Wash	6								
	302 N. First Street	╟─	ł	SP		Sand with some silt, clay and large	Brown	Dry	Petroleum	91
	Yakima, WA					cobbles			Odor	1 .
		8								
	a	₁ <u>├</u>	ł	ŀ		Soil Sample 052401-S1 collected from				
Clayton geologist	Greg Ferris				1	7-10 feet bgs		1		
Driller	ESN	10		SP	1	Sand with some silt, clay and large	Brown	Drv	Petroleum	82
Start date	5/24/2001				ļ	cobbles			Odor	
Final date										
	Geo-Probe									Į.
Auger OD	2 inches Split Spoon	12	ł	ł						
Elevation	Split Spool	╢──	ł	SP		Sand with some silt, clay and large	Brown	Dry	No Odor	3.2
Datum						cobbles		2.5		
ound surface	feet	14								
		ᡪ⊢							1	
onitoring We		4	1							1
OC elevation Grout	feet feet BGS	16	┢	-	╀	Refusal at 16 feet bgs (large boulder) Boring Terminated		<b> </b>		
interval	feet BGS	10			1	Boring reminated				
entonite plug	feet thick	╢──	1					1		
Filter pack	feet BGS									
interval	feet BGS	18						1		1
Screen length Stot size	feet inches		-					1		
creen bottom	feet BGS			1	ł				Î	
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Iscarine       est dispense       2       SP       Sand with some silt, clay and large obbies       Brown       Dry       No Odor       0.7         Clevel       Zurich Insumno       4       SP       Sand with some silt, clay and large obbies       Brown       Dry       No Odor       0.5         Project No.       SO-01056.00       6       SP       Sand with some silt, clay and large obbies       Brown       Dry       No Odor       0.5         Strit       Lincoln Avenue       6       SP       Sand with some silt, clay and large obbies       Brown       Dry       No Odor       0.5         Strit       Lincoln Avenue       6       SP       Sand with some silt, clay and large obbies       Brown       Dry       No Odor       0.4         Strit Stret       Yakima, WA       8       SP       Sand with some silt, clay and large obbles       Brown       Dry       No Odor       0.4         Star data       SPADite       SPADite       SP       Sand with some silt, clay and large obbles       Brown       Dry       No Odor       0.4         Star data       SPADite       SP       Sand with some silt, clay and large obbles       Brown       Dry       No Odor       0.4         Star data       SPADite       SP <td< td=""><td></td><td></td><td>-11 °</td><td></td><td></td><td></td><td>0-6" Concrete</td><td>1</td><td></td><td></td><td></td></td<>			-11 °				0-6" Concrete	1			
Clear     Zurich Insumace     1       Project M.     20-01056.00     5P       Str     Goudin Avenue     6       Curve Wash     6       Curve Wash     8       Sol X Sample 052401-S2 collected from       7-10 foct bgs       Shar Hait SV42801       Shar Hait SV42801       Barnet Barn	_				1			1			
Clear     Zarish Insurance     -       4     SP       Stat     Lincoln Avenue       Car Wah     -       302 N. Finis Street     -       Yakima, WA     8       Stat     SP       Sand with some silt, clay and large     Brown       Car Wah     -       302 N. Finis Street     -       Yakima, WA     8       See Joint Forma     -       See Joint Forma     -       See Joint Vakima, WA     8       See Joint Yakima, WA     8       Berniton     -       Data     -       Grawi	location	east dispenser			SP			Brown	Dry	No Odor	0.7
Clevel       Zarich Insurance       4       SP       Sand with some silt, clay and large cobble       Brown       Dry       No Odor       0.5         State Lincoln Avenue       6       SP       Sand with some silt, clay and large cobble       Brown       Dry       No Odor       1.6         Clayton Vakim, Wah       8       SP       Sand with some silt, clay and large cobbles       Brown       Dry       No Odor       1.6         Clayton Vakim, WA       8       SP       Sand with some silt, clay and large cobbles       Brown       Dry       No Odor       0.4         State Taits SY20201       10       SP       Sand with some silt, clay and large cobbles       Brown       Dry       No Odor       0.4         State Taits SY20201       10       SP       Sand with some silt, clay and large cobbles       Dry       No Odor       0.4         State Taits SY20201       10       SP       Sand with some silt, clay and large cobbles       Dry       No Odor       0.4         State Taits Sy242001       20       Sand with some silt, clay and large cobbles       Dry       No Odor       0.4         Beretton       Bet       12       Beretton       Dring SP       Beretton       Dring SP       Beretton       Dring SP       Beretton       Dring S			<u> </u>		[		cobbles	1			1
Project No.     90-01056.00     6       Str     Lincoln Avenue     6       Carwan     6     5       Carwan     8     8       Clapton     Greg Veah     8       Soil Sample 052401-52 collected from     7-10 feet bgs       Soil Sample 052401-52 collected from     7-10 feet bgs       Soil Sample 052401-52 collected from     7-10 feet bgs       Soin Sam that 5/242001     8       Mend dav     724001       Mend dav     7       Split Spoon     12       Split Spoon     12       Serving     6       Soin Sam that     14       Mend dav     7       Berniton     10       Datam     10       Serving     6       Soin Sam that     11       Greating the     6       Greating the     16       Greating     16       Mender Soin Sam     16       Soin Sam that     16       Soin Sam that     16       Soin Sam that     16       Mender Soin Sam     16	1		<b>J</b>   2								1
Project No.     90-01056.00     6       Str     Lincoln Avenue     6       Carwan     6     5       Carwan     8     8       Clapton     Greg Veah     8       Soil Sample 052401-52 collected from     7-10 feet bgs       Soil Sample 052401-52 collected from     7-10 feet bgs       Soil Sample 052401-52 collected from     7-10 feet bgs       Soin Sam that 5/242001     8       Mend dav     724001       Mend dav     7       Split Spoon     12       Split Spoon     12       Serving     6       Soin Sam that     14       Mend dav     7       Berniton     10       Datam     10       Serving     6       Soin Sam that     11       Greating the     6       Greating the     16       Greating     16       Mender Soin Sam     16       Soin Sam that     16       Soin Sam that     16       Soin Sam that     16       Mender Soin Sam     16	<i>a</i>	7	┓┝──								
Project No.     D0-01056.00       Stret     Lincoln Avenue       Car Weah     6       S02 N. First Street     7       Yakim, WA     8       Clopton Greg Ferris     5       goologist     7-10 feet bgs       Driller     BSN       Start det     V2/2001       Preductive Greg Ferris     5       goologist     10       Start det     V2/2001       Pand det     V2/2001       Barnad det     12       Sequer CD     2 incluse       Berniter     12       Berniter     14       Barnad det     16       Barnad det     16 <tr< td=""><td>Client</td><td>Zunch insurance</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	Client	Zunch insurance									
Project No.     D0-01056.00       Stret     Lincoln Avenue       Car Weah     6       S02 N. First Street     7       Yakim, WA     8       Clopton Greg Ferris     5       goologist     7-10 feet bgs       Driller     BSN       Start det     V2/2001       Preductive Greg Ferris     5       goologist     10       Start det     V2/2001       Pand det     V2/2001       Barnad det     12       Sequer CD     2 incluse       Berniter     12       Berniter     14       Barnad det     16       Barnad det     16 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>o 1 14 - 46 - 7 - 7 -</td><td></td><td></td><td></td><td></td></tr<>							o 1 14 - 46 - 7 - 7 -				
Project No.       00-01056.00       6         Strie       Lincoln Avenue       6         GU Wash       300 N. First Street       8         Sold N. First Street       8         Clapton       Grag Ferris       20         geologisti       7-10 feet bgs       Brown       Dry         Drifter       ISN       10       SP       Sand with some silt, clay and large       Brown       Dry       No Odor       0.4         Sand Att Max       302 N. First Street       Sand with some silt, clay and large       Brown       Dry       No Odor       0.4         Sand with some silt, clay and large       Brown       Dry       No Odor       0.4         Sand with some silt, clay and large       Brown       Dry       No Odor       0.4         Adder docs       Refueal at 11 feet bgs (large boulder)       Marcol       0.4         Adder docs       Test       14       Boring Terminated       14         Interval       feet BOS       16       Interval       feet BOS       16         Interval       feet BOS       12       Sander Bot       Sandered       Sandered       S	1		┚╡ै╎		SP			Brown	Dry	No Odor	0.5
Stre       Lincoh Arenuc       6         Car Wash       501 N. First Street       5         Stre       Sand wills some silt, clay and large cobbics       Brown       Dry       No Odor       1.0         Clayton       Greg Ferris       5       Soil Sample 052401-S2 collected from 7-10 feet bgs       Soil Sample 052401-S2 collected from 7-10 feet bgs       Dry       No Odor       0.0         Start data       522001       10       SP       Sand with some silt, clay and large cobbics       Brown       Dry       No Odor       0.0         Maind and 5224201       10       SP       Sand with some silt, clay and large cobbics       Brown       Dry       No Odor       0.0         Maind and 5224201       10       SP       Sand with some silt, clay and large cobbics       Brown       Dry       No Odor       0.0         Maind and 5224201       12       Sand with some silt, clay and large cobbics       Brown       Dry       No Odor       0.0         Breation       Data       12       Refenal at 11 feet bgs (large boulder)       Brown       Dry       No Odor       0.0         Breation       Energine       14       Energine       Energine       14       Energine       14       Energine       14       Energine       14 <td>Project No.</td> <td>90.01056.00</td> <td>┓┟──</td> <td></td> <td></td> <td></td> <td>cobles</td> <td></td> <td>ł</td> <td></td> <td></td>	Project No.	90.01056.00	┓┟──				cobles		ł		
Cur Wash 302 N. First Street Yakima, WA     SP     Sand with some silt, clay and large cobbics     Brown     Dryn     No Odor     1.0       Clayton geologist     Driller     SN     10     SP     Sand with some silt, clay and large cobbics     Brown     Dryn     No Odor     0.4       Start data     S202.001     First Street Sard data     SP     Sand with some silt, clay and large cobbics     Brown     Dryn     No Odor     0.4       Start data     S202.001     First Street Sard data     S202.001     Brown     Dryn     No Odor     0.4       Method Goo-Probe Auger OD     2 indices     It     Refinal at 11 feet bgs (large boulder)     Brown     Dryn     No Odor     0.4       Brenten Mattad     Exection     Exection     Exection     Exection     It     It     It       Datum     It     Exection     Exection     It     It     It     It     It       Calevation     feet BOS     It     It     It     It     It     It     It       Start data     fact BOS     It     It     It     It     It     It     It       Calevation     feet BOS     It     It     It     It     It     It     It       Start data     feet BOS <td>Frojeci No.</td> <td>50-01050.00</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td>ļ</td> <td></td> <td></td> <td>1</td>	Frojeci No.	50-01050.00	4					ļ			1
Cur Wash 302 N. First Street Yakima, WA     SP     Sand with some silt, clay and large cobbics     Brown     Dryn     No Odor     1.0       Clayton geologist     Driller     SN     10     SP     Sand with some silt, clay and large cobbics     Brown     Dryn     No Odor     0.4       Start data     S202.001     First Street Sard data     SP     Sand with some silt, clay and large cobbics     Brown     Dryn     No Odor     0.4       Start data     S202.001     First Street Sard data     S202.001     Brown     Dryn     No Odor     0.4       Method Goo-Probe Auger OD     2 indices     It     Refinal at 11 feet bgs (large boulder)     Brown     Dryn     No Odor     0.4       Brenten Mattad     Exection     Exection     Exection     Exection     It     It     It       Datum     It     Exection     Exection     It     It     It     It     It       Calevation     feet BOS     It     It     It     It     It     It     It       Start data     fact BOS     It     It     It     It     It     It     It       Calevation     feet BOS     It     It     It     It     It     It     It       Start data     feet BOS <td>Size</td> <td>Lincoln Avenue</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>1</td>	Size	Lincoln Avenue						1			1
302 N. First Street Yatima, WA     8     SP     Sand with some silt, clay and large cobbles     Brown     Dry     No Odor     1.0       Clapton Grag Ferrin geologid     0     SP     Sand with some silt, clay and large cobbles     Brown     Dry     No Odor     0.4       Surd des Y24/2001     10     SP     Sand with some silt, clay and large cobbles     Brown     Dry     No Odor     0.4       Sand with some silt, clay and large cobbles     Soil Sample 052401-S2 collected from 7-10 feet bgs     Brown     Dry     No Odor     0.4       Sand with some silt, clay and large cobbles     Soil Sample 052401-S2 collected from 7-10 feet bgs     Brown     Dry     No Odor     0.4       Match di Coc-Pobe     12     SP     Sand with some silt, clay and large cobbles     Brown     Dry     No Odor     0.4       Sampler Split Spoon     12     SP     Refinal at 11 feet bgs (large bouldor)     Interval feetacon     Interval feeta	DITE		ll °		1						
Yakima, WA       8       oobbles       Interval       9       No additional interval         Clayton       Gray       10       8       Soil Sample 052401-52 collected from 7-10 feet bgs       9       No Odor       0.4         Start date 1274001       Sand with some sill, clay and large cobbles       Brown       Dry       No Odor       0.4         Method Geo-Probe       Ager OD       2 indue       I       Refusal at 11 feet bgs (large boulder)       Boring Terminated       Boring Terminated       I					SP		Sand with some silt, clay and large	Drown	Der	No Odor	
B     Soil Sample 052401-S2 collected from 7-10 fbet bgs     Dry     No Odor     0.4       Clayton Duffler [SN]     10     SP     Soil Sample 052401-S2 collected from 7-10 fbet bgs     Dry     No Odor     0.4       Star dut 5024001     10     SP     Sand with some sill, clay and large orobbles     Brown     Dry     No Odor     0.4       Auger OD     2 inches     12     Sand with some sill, clay and large orobbles     Brown     Dry     No Odor     0.4       Mathed Geo-Probe     14     Image: Coll Split Spoon     Image: Coll Split Split Spoon     Image: Coll Split Split Spoon     Image: Coll Split Spli								DIOMIC	UI Y	NO Odor	1.0
Clayton       Greg Ferris       Soil Sample 052401-S2 collected from       Drib       Drib       Drib       Soil Sample 052401-S2 collected from       Drib       Drib       Drib       Drib       Drib       Soil Sample 052401-S2 collected from       Drib       <			8				0000103				
Clopton       Greg Ferris			-1				Soil Sample 052401-S2 collected from				
geologist	Clayton	Greg Ferris	71-		[			1	[	l	1
Driffer     ESN     10     SP     Sand with some silt, olay and large     Brown     Dry     No Odor     0.4       Start date     S242001     Refusal at 11 feet bgs (large boulder)     Boring Terminated     Boring Terminated     0.4       Auger OD     2 inches     12     Boring Terminated     Boring Terminated     Boring Terminated       Baundar Split Spoon     14     Improvement     Improvement     Improvement     Improvement     Improvement       Calenation     14     Improvement     Improvement     Improvement     Improvement     Improvement     Improvement       Calenation     feet BOS     16     Improvement     Improvement     Improvement     Improvement       Calenation     feet BOS     18     Improvement     Improvement     Improvement       State level     feet BOS     Improvement     Improvement     Improvement       State level     feet BOS     Improvement     Improvement     Improvement       State level     feet bolow TOC     Improvement     Improvement     Improvement       State level     feet bolow TOC     Improvement     Improvement     Improvement       State level     feet bolow TOC     Improvement     Improvement       Improvement     Improvement     Improvement				ł				ł	1		1
Stort dete       \$242001       cobbles       cobbles <td></td> <td>ESN</td> <td>10</td> <td></td> <td>SP</td> <td></td> <td>Sand with some silt, clay and large</td> <td>Brown</td> <td>Drv</td> <td>No Odor</td> <td>  ∩⊿</td>		ESN	10		SP		Sand with some silt, clay and large	Brown	Drv	No Odor	∩⊿
Find date     \$24/2001       Method     Geo-Probe       Sanger OD     2 inches       Sanger Spilt Spoon     12       Baring     Baring Terminated       Baring     Beta       Identified     14       Interval     Beta       Grout     Bet       Interval     Beta       Grout     Bet       Interval     Beta       Grout     Beta       Interval     Beta       Statistic bevel     Beta       Interval     B								1	,		``
Method Geo-Probe	Final date	5/24/2001		<u> </u>	1				1		+
Auger OD       2 inclues       12         Sampher       Split Spoon       12         Elevation       Detum	Method	Geo-Probe						1			
Elevation       Datam         Datam       individual field         Interval       feet BGS         C elevation       feet BGS         Interval       feet BGS         val method       20         val method       22         val method       24         val method       22         val method       24         val method       24         val method       24         val method       26         Static level       feet below 'TOC         i	Auger OD	2 inches	12		1		-	1			
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and surface     fbet     14       altoring Well     Celevation     fbet       Grout     fbet BOS     16       interval     fbet BOS     16       interval     fbet BOS     18       interval     fbet BOS     20       waterial     20     20       waterial     20       waterial     22       roundwater     Date 1       static level     fbet bolow TOC       Ellevation     fbet bolow TOC       Static level     fbet bolow TOC       Bilevation     fbet       Bilevation     fbet       26     26       Static level     fbet bolow TOC       Bilevation     fbet       Bilevation     fbet       gallons     28       Soutidetivity     µmhos       imperature     9F	Elevation							1	[		
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interval       feet BGS       18         Stot size       inches         ween bottom       feet BGS         out method       20         ke material       20         week bottom       feet BGS         out method       20         ke material       20         week bottom       feet BGS         out method       20         ke material       20         week bottom       feet bolow TOC         Blevalton       feet         Static level       feet bolow TOC         Elevalton       feet         ionductivity       µmhos         emperature $^{\circ}F$ $pH$ 26         Static level       feet bolow TOC         Elevation       feet         ionductivity       µmhos         emperature $^{\circ}F$ $26$ 28         ionductivity       µmhos         emperature $^{\circ}F$ $pH$ 28         ionductivity       µmhos         emperature $^{\circ}F$ $pH$ $^{\circ}F$			-11						1		
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	<b>Clayton Bori</b>	ng			B	-3				
inal depth	8 feet BGS	n		Soll	_	Soil Type	Color	Soli Moisture	Comment	FID ppm
•		1						infolature		bhm.
Page	1 of 1	10	+	$\vdash$	┝─	0-6" Concrete				+
	20' north of current	1								
location	USTs			SP		Sand with some silt, clay and large	Brown	Dry	No Odor	0.6
		ł			ŀ	cobbles		<b>,</b>		
		2	1		İ			ļ.		
										1 1
Client	Zurich Insurance		]		ł					
		4		SP		Sand with some silt, clay and large	Brown	Dry	No Odor	1.3
	00.01055.00	℩┝─				cobbles				
rojeci No.	90-01056.00	비	1	ļ		G-11 B				
Sila	Lincoln Avenue	6	1			Soil Sample 052401-S3 collected from 4-7 feet bgs				
DHE	Car Wash	۱Ľ	1	ł		4-7 Icer 0gs				
	302 N. First Street	⊩	1	SP		Sand with some silt, clay and large	Brown	Dry	No Odor	1.1
	Yakima, WA					cobbles		,	110 000	
	·····, ···	8		-	<u> </u>	Refusal at 8 feet bgs (large boulder)				
	L	1		ļ		Boring Terminated				
	Greg Ferris		1							
geologist										
Driller										
	5/24/2001									
Final date								1		•
	Geo-Probe		1	1						
Auger OD	2 inches	2								
Sampler	Split Spoon	╢	4.							
Elevation								1		
Datum		╢	4						}	
ind surface	feet	4	1							
	·····	℩⊢	-							
nitoring We		4			l			{	ļ	
C elevation Grout		6	-					1		
interval	1	ľ								
tonite plug										
Filter pack		1			Ł					
interval		8	1		L					
reen length	feet	1								
Slot size	inches		1		ł		1			
een bottom	feet BGS	1								
out method		10	7			1	1	1		
ck material	1	IL	1			1		1	1	
ut material		1	1							
evelopment			1	1				1		
ell lock No.	L	12	2	1	Ł			1		
	· · · · · · · · · · · · · · · · · · ·	╌╢╌	4	ł				1		
oundwater		Ţ		1						
Static level			-		ł		1	1		
Elevation		12	"					1	ł	1
ime purged	·	$\parallel$	-	1				1	1	1
onductivity	· ·		1	1				1		
emperature		<u> </u>	-		ł			1	1	1
рН	· · · · · · · · · · · · · · · · · · ·	110	2			1	1	ł	1	
n	Date 2	ᆂ	-	1		{				
Static level		c						1	1	
Elevation		1	-	1				1	1	
ume purged	-	11	5	1	1					
onductivity			-					1		
emperature	3	1					1	· ·		
-	<u> </u>	┛┝╼	-	1				1	1	
ph										
pH		20	4		Ł					
pH		20	-		ł					

	<b>Clayton Bori</b>	ng			Б	-4				
Final depth	4 feet BGS	ft	R	Soil	N	Soil Type	Color	Soll Moisture	Сопителт	FID
		{						MOISTURE		րրտ
Page	1 of 1	0	-		╞	0-6" Concrete		<u> </u>		
	5' east of UST's	ľ				0-0 Concrete				
location	5 000 01 0010	-		Fill		Pea gravel from UST pit				
						Soil Sample 052401-S4 collected from				
		2				1-4 feet bgs			}	
4	he.e	1				- · · · • • • • • • • • • • • • • • • •				
Client	Zurich Insurance	<u> </u>	1	SP		Sand with some silt, clay and large	Brown	Dry	No Odor	0.9
					Ľ	cobbles	2.011			0.5
		4				Refusal at 4 feet bgs (pea gravel kept				
		_			l.	filling in boring)			1	1
Project No.	90-01056.00	ŀ				Boring Terminated	1			
r		<u>.</u>								
	Lincoln Avenue	6								
	Car Wash									
	302 N. First Street							1		
	Yakima, WA	8			l				1	
l		۱		ł						
Clayton	Greg Ferris	<u> </u>	1		1					
geologist		ŀ		ŀ					1	
Driller	ESN		1	ł	1					
Start date	1 1	Į –			1					
Final date	5/24/2001									
Method	Geo-Probe				1.					
Auger OD	2 inches	2								
Sampler	Split Spoon									
Elevation		[								
Datum							1			
round surface	feet	4	1							
		<u> </u>								
fonitoring Wel										
OC elevation	feet	L								
Grout	feet BGS	6			ł		ł	1		
interval	feet BGS	┝								
entonite plug Filter pack	feet thick feet BGS									
Interval	feet BGS	8								
Screen length	feet	G		İ -						ł
Slot size	inches		1				1			1
Screen bottom	feet BGS			l				1		
Grout method		10	1	l				1		
Pack material					1					1
rout material			I							
Development										1
Well lock No.		12					1	1	1	
					1		1	1		1
Groundwater	Date 1							1	1	1
Static level	feet below TOC		ł		1			1		1
Elevation	feet	14	1				1	1		
olume purged	gallons	$\vdash$	1					1		1
Conductivity	µmhos BC	1			1			1		
Temperature	٩٣	<u> </u>	-					1		
pH	Date 2	16	1					1	1	
Static level	feet below TOC		1	ļ	1			l l		
Static level Elevation	feet below TOC	1	1	1			1	1		
clume purged	reer gallons	18	ł		1			1		
Conductivity	ganons µmhos	10	1		1		1		1	
	րուուos °F	┣	1		L					
<i>leinperoure</i>	•	1	1	L	1			1	1	1
Temperature pH										
1 emperature pH		20	1							
		20			ļ					

	<b>Clayton Bori</b>	ing			B	-5				
Final depth	12 feet BGS	n	R	Soll	N	Soll Type	Color	Soll Moisture	Comment	FID ppm
Page	1 of 1		-		┝	0-6" Concrete				
	10 south of current									
location	USTs	[ ]		SP		Sand with some silt, clay and large	Brown	Dry	No Odor	0.6
I						cobbles				
	·	] 2			ł					
Client	Zurich Insurance	℩⊢	1							
										1
		4	1	SP		Sand with some silt, clay and large	Brown	Dry	No Odor	1 1.1
			]			cobbles		1		
Project No.	90-01056.00	ll –	1							
844	Lincoln Avenue		-			Soil Sample 052401-S5 collected from		1		
Sile	Car Wash	6				4-7 feet bgs				
	302 N. First Street	╟─	1	SP		Sand with some silt, clay and large	Brown	Dry	No Odor	0.8
	Yekime, WA					cobbles	DIGHI			0.0
		8	1							
	0	₁⊢	ł							1
Clayton geologist	Greg Ferris						1			
geologist Driller	ESN	10	1	SP		Sand with some silt, clay and large	Brown	Dry	No Odor	
Start date		∥		<b>.</b>		cobbles	BIUWII	Diy	No Odor	1.0
Final date	5/24/2001		1		1					
	Geo-Probe					Refusal at 12 feet bgs (large boulder)				
Auger OD	2 inches	12				Boring Terminated				
Sampler Elevation	Split Spoon	╢—	1		1					
Datum				1						1
round surface	feet	14	1							
tonitoring We	Ш									
OC elevation	feet									
Grout	feet BGS	16				· · ·		1		1
interval Rentonite plug	feet BGS feet thick	╢─	1					1		
Filter pack	feet BGS	1	ł					ł		
interval	feet BGS	18	1		1					
Screen length	feet	1	1	]						
Slot size	inches	1		ļ						
Screen bottom	feet BGS	1 20	-				1			1
Grout method <sup>.</sup> Pack material		20	1						1	
rout material			1				1 .	1		1
Development			1	1				1	1	
Well lock No.	L	22			1			1		
Groundwater	Date 1	⊦	1	1				1		
Static level	feet below TO	러	1	ł	1			1		1
Elevation	feet	24	1	ļ						
olume purged	gallons				1					
Conductivity	μmhos	$\ $	1	1				1		1
Temperature	٩F		-					1	1	
рН		26			1			1		
Static level	Date 2 feet below TO	╢─	1							1
Elevation	feet	ĭ	1					1		
ohume purged	gallons	28	1		ļ	4	1	1	l	Ì
Conductivity	μmhos							1		
	٩F		1	1	1	]		1	1	
Temperature		11	1	1	1	l I	ł	1	1	1
Temperature pH	L	┹	-				1			
-	<u> </u>	30								
-	I	30			ļ					

	<b>Clayton Bori</b>	ng			N	1W-1				
Final depth	27 feet BGS	ft	R	Soil	N	Soil Type	Color	Soil	Comment	FID
								Moisture		ppm
<b>D</b>			_			0.610	1		_ · · _ ·	
Page	1 of 1 10' south of current	0				0-6" Concrete				
Boring						0. 1. 14 14 14 14		_		
location	USTs			SP		Sand with some silt, clay and large	Brown	Dry	No Odor	
		Ļ				cobbles				
		2					1			
	a						1			
Client	Zurich Insurance				ł					
		$\left  - \right $								
		4								1
Destant	90-01056.00	<b> </b>				a				
Project No.	90-01036.00			SP		Sand with some silt, clay and large	Brown	Dry	No Odor	0.7
<b>B</b> 24-	Lincoln Avenue	6				cobbles				
511e	Car Wash	P								
	302 N. First Street	$\vdash$								
	Yakima, WA						1	1		
	s welling, ttri	8					1		]	1
		"			l				1	
Clavton	Greg Ferris				l		1		1	1
geologist	-0				1			1		
	Cascade	10		SP	1	Sand with some silt, clay and large	Brown	Dry	No Odor	
Start date						cobbles	L'UNIL	, July	LIO COOL	0.4
Final date								1	· ·	
	Air-Rotary (ODEX)									
Auger OD	8 inches	12	1						1	
-	Gтаb							l I	1	
Elevation					1			1		
Datum						Static water level 13.61 feet BTOC				
round surface	feet	14	1							
				ĺ						
Aonitoring We	Ш			SP		Sand with some silt, clay and large	Brown	Dry	No Odor	0.4
TOC elevation	1,069.63 feet					cobbles	[	,		1
Grout	0.5 feet BGS	16	1			Soil sample 072201-S1 collected from				
Interval	0.5-1.5 feet BGS		ŀ			15-16 feet bgs				
Bentonite plug	3.0 feet thick		1			-			1	
Filter pack	4.5 feet BGS					Soils become wet ~17 feet bgs				
interval	4.5-26.5 feet BGS	18				_			1	
Screen length	20.0 feet					Groundwater sample 072201-GW1			1	
Slot size	0.01 inches					collected from MW-1		1		
Screen bottom	26.5 feet BGS									
Grout method		20		SP		Sand with some silt, clay and large	Brown	Wet	No Odor	1.2
Pack material				]		cobbles		1		
irout material			l							
Development	25 gailons		ļ	1						
Well lock No.	l	22			]					
		₁—	1		L					
Groundwater	22 Jul 01 Date 1 13.61 feet below TOC	!	1				1	1		1
Static level			ł		1		1	1		
Elevation olume purged	1,056.02 feet 25. gallons	24	ł							1
Conductivity	-									
Temperature	µmhos °F			SP		Sand with some silt, clay and large	Brown	Wet	No Odor	1.3
-		26	ł			cobbles				
рН		20								
Statis Inc. 1	Date 2	<u>ا</u>	_	├		Paring Transingto 1		<u> </u>	<b> </b>	
Static level		í	1	l		Boring Terminated		1		
Elevation	1		1	1	1					
ohime purged	-	28	1	ł	1		1			1
Conductivity			1	1				1		
Temperoture		1			1	}	1		1	
рН	I	30	-	1			1	1	1	ļ
		1 30	1	ł						
		-	1	1		1			}	
		1	1		Ł			1	1	
			L.	1	1				1	1

	Clayton Bori	ng			1	1W-2	l			
Final depth	27 feet BGS	ft	R	Soll	N	Soil Type	Color	Soli Moisture	Comment	FID ppm
Page	10f1	0	-		⊢	0-6" Concrete				┞──
-	8' east of current									
location	UST's (in sidewalk)			SP		Sand with some silt, clay and large	Brown	Dry	No Odor	
						cobbles		· ·		l l
		2								
<b>a</b> .	a	ı—-								1
Chent	Zurich Insurance									
		4								
		1								
Project No.	90-01056.00			SP		Sand with some silt, clay and large	Brown	Dry	No Odor	0.4
-	· · · · · · · · · · · · · · · · · · ·	1				cobbles	Diowit	Dig	110 (300)	0.4
Site	Lincoln Avenue	6								
	Car Wash									
	302 N. First Street									
	Yakima, WA							1		
	L	8					1		1	
Clautan	Greg Ferris						1			
geologist	B x 01113						1			
	Cascade	10		SP		Sand with some silt, clay and large	Brown	Dry	No Odor	0.7
Start date	7/22/2001					cobbles				1
Final date	7/22/2001					Soil sample 072201-S2 collected from	1			1
1	Air-Rotary (ODEX)	_				10-11 feet bgs				
Auger OD	8 inches	12								
Sampler	Grab	<u> </u>								
Elevation Datum								1		
ound surface	feet	14				Static water level 14.06 feet BTOC				
onitoring We	<u>u</u>			SP		Sand with some silt, clay and large	Brown	Dry	No Odor	
C elevation	1,070.00 feet			~		cobbles	DIOWI	Diy		0.4
Grout	0.5 fact BGS	16								
Interval	0.5-2 feet BGS									
ntonite plug	3.0 feet thick					Soils become wet ~17 feet bgs				
Filter pack	5.0 feet BGS					•				
interval	5.0-27 feet BGS	18						1		
Creen length Slot size	20.0 feet 0.01 inches					Groundwater sample 072201-GW2 collected from MW-2				
creen bottom	27.0 feet BGS					confected from Mw-2				
rout method		20		SP		Sand with some silt, clay and large	Brown	Wet	No Odor	0.2
ack material						cobbles	1.570 mil			0.2
out material							1			1
-	25 gallons						1			
Well lock No.		22					1			
Groundwater	22 1401 1									1
Static level	22 Jul 01 Date 1 14.06 feet below TOC						1	· ·		1
Elevation	1,055.94 feet	24					1			
lume purged	25. gallons	- '					1	·	ł	
Conductivity	μmhos			SP		Sand with some silt, clay and large	Brown	Wet	No Odor	0.2
Temperature	٩Ŀ					cobbles				1
pH		26					1	1		ł
	Date 2									l
Static level	feet below TOC					Boring Terminated				
Elevation	feet						1	}		
dume purgeđ Conductivity	gallons	28					1			1
Conductivity Temperature	µmhos °F									
pH	r	l								1
<i>F.1</i>	<u> </u>	30					1			
		ł	ļ					1		

	Clayton Bori	ing		_	IV	1W-4				
inal depth	27 feet BGS	ft	R	Soll	N	Soli Type	Color	Soli Moisture	Comment	FID ppm
Page	1 of 1				-	0-6" Concrete				
Boring	15' south of south-									
location	west dispenser (in			SP	1	Sand with some silt, clay and large	Brown	Dry	No Odor	
	sidewalk)					cobbles		'		
		2					1			
								1		
Client	Zurich Insurance									
		4					1			
Qualant Ma	90-01056.00			SP		Sand with some site stars and tame	<b>_</b>		N. 01	1
rojeci no.	-01050.00	4	ļ	or		Sand with some silt, clay and large cobbles	Brown	Dry	No Odor	0.3
Site	Lincoln Avenue	16				coones		1		
	Car Wash	1								
	302 N. First Street		1							
	Yakima, WA							1		
		8								
		<u> </u>						1		
	Greg Ferris	$\ $		ĺ				l		i
geologist	G		ł					L		1
	Cascade	10		SP	ŀ	Sand with some silt, clay and large	Brown	Dry	No Odor	0.5
Start date Final date		⊪-	1			cobbles		1		
		1				Soil sample 072201-S4 collected from				1
Meinoa Auger OD	Air-Rotary (ODEX) 8 inches	12	1			10-11 feet bgs				
Sampler		112								
Blevation			1	1						
Datum			ĺ	1		Static water level 13,74 feet BTOC		1	1	
nd surface	feet	14								
				ļ				}		
utoring We	u	11-		SP		Sand with some silt, clay and large	Brown	Dry	No Odor	0.5
c elevation	1,069.94 feet	71				cobbles		ľ		
Grout	0.5 feet BGS	16	]							
interval	0.5-1.5 feet BGS		1							
tonite plug	3.0 feet thick	-11								
Filter pack	4.5 feet BGS		ļ			Soils become wet ~17 feet bgs		1		
interval	4.5-26.5 feet BGS	18				Com 1 070001 CW4			1	
reen length Slot size	20.0 feet 0.01 inches	11—	{			Groundwater sample 072201-GW4 collected from MW-4				
een bottom	26.5 feet BGS	-				conected from Mw-4				
out method	20.0 100 000	20	1	SP		Sand with some silt, clay and large	Brown	Wet	No Odor	
ck material		1		0.		cobbles	DIOWII	1	140 (300)	0.4
ut material			1							
evelopment	25 gallons	11	1							
ell lock No.		22								
oundwater	22 Jul 01 Date 1								}	
Static level	13.74 feet below TC	-	4		1					
Elevation	1,056.20 feet	24							İ	
me purged	25. gallons	⊪—								
onductivity emperature	µmhos °F			SP		Sand with some silt, clay and large	Brown	Wet	No Odor	0.4
-		26	ł			cobbles			1	
рН	Date 2	<b>-  </b> ²⁰								
Static level	feet below TC	-	+	+	+	Boring Terminated		1		
Elevation		ĩ	1	ł		Louinatet		1		
une purged		28	1	1	Ł			ł		1
onductivity	-	11 "		1	1					İ
emperature			1							
, pH						1			1	
		30	1	1		1	Í			
			1	1	÷.		1		1	1
									1	ł

	<b>Clayton Bori</b>	ing			N	IW-3				
Final depth	27 feet BGS	n	R	Soll	N	Soll Type	Color	Soll Moisture	Comment	FID ppm
Page	l of 1	ᢧᡰ᠊᠋᠋ᠣ	┝		┝	0-6" Concrete				┣──
	15' south of south-									
location	east dispenser (in	11		SP		Sand with some silt, clay and large	Brown	Dry	No Odor	Į –
	sidewalk)				i	cobbles				
		] 2								
Client	Zurich Insurance	י∸∱ן						1		ł
								-		
		4								ł
		₁—				<b></b>				ļ į
Project No.	90-01056.00	1	1	SP		Sand with some silt, clay and large cobbles	Brown	Dry	No Odor	0.4
Site	Lincoln Avenue	16				coores	1			
	Car Wash									
	302 N. First Street						1	ł		1
	Yakima, WA									1
ļ		8								
Claylon	Greg Ferris									
geologist	-									
	Cascade	10		SP		Sand with some silt, clay and large	Brown	Dry	No Odor	1.3
Start date				•		cobbles	1	ł		l l
Final date Method	7/22/2001 Air-Rotary (ODEX)					Soil sample 072201-S3 collected from 10-11 feet bgs		l		1
Auger OD	8 inches	12				10-11 leet ogs				
Sampler		``								
Elevation										
Datum						Static water level 13.37 feet BTOC				
round surface	feet	14						1		
Monitoring Wel	· · · · · · · · · · · · · · · · · · ·	╢─┤		SP		Sand with some silt stars and taxes				
TOC elevation	1,069.55 feet			or		Sand with some silt, clay and large cobbles	Brown	Dry	No Odor	0.6
Grout	0.5 feet BGS	16								
interval	0.5-1.0 feet BGS									
Bentonite plug	3.0 feet thick					Soils become wet ~17 feet bgs				
Filter pack	4.0 feet BGS 4.0-26 feet BGS									
interval Screen length	20.0 feet	18				Groundwater sample 072201-GW3		]		1
Slot size	0.01 inches					collected from MW-3				1
Screen bottom	26.0 feet BGS									
Grout method		20		SP	ļ	Sand with some silt, clay and large	Brown	Wet	No Odor	0.4
Pack material						cobbles	1			
Grout material Development	25 gallons	1								i
Well lock No.		22					1			
	22 Jul 01 Date 1									
Static level	13.37 feet below TOC	· •							ļ	1
Elevation Folume purged	1,056.18 feet 25. gallons	24								
Conductivity	23. ganons µmhos			SP		Sand with some silt, clay and large	Brown	Wet	No Odor	
Temperature	٥F					cobbles	L'UNIT	1.00	140 Caor	0.4
pH	<u> </u>	26				Boring Terminated	1	<u> </u>		1
	Date 2				ŀ					
Static level	feet below TOO						1			1
Elevation <sup>7</sup> olume purged	feet	28								1
Conductivity	ganons µmhos	{  <sup>20</sup>								
Temperature	۰F	1-	1				1			
рН										1
		30								
		1	I İ	[			1	1	1	1



## ATTACHMENT B

## LABORATORY ANALYTICAL REPORTS



	CERTIFI	CATE OF A	VALYSIS			
CLIENT: CLAYTON GROUP SE 4636 E. MARGINAL V SEATTLE, WA 98134 CLIENT CONTACT: GREG FEI	WDOE	DATE: CCIL JOB #: CCIL SAMPLE #: DATE RECEIVED: ACCREDITATION #:	6/5/01 105108 1 5/25/01 C142			
CLIENT CONTACT. GREG FEI	(1)2					
CLIENT PROJECT ID: CLIENT SAMPLE ID:	90-01056.0 052401-S1	0.003 5/24/01 (	)920			
	D/	TA RESULT	<u>'S</u>			
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		5/30/01	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES	EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<0.1) ND(<0.1) ND(<0.1) ND(<0.3)	MG/KG MG/KG MG/KG MG/KG	.5MG/KG 40MG/KG 20MG/KG 20MG/KG	5/30/01 5/30/01 5/30/01 5/30/01	lah lah lah lah
				-	-//-=	

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON & DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY:

Page 1



CERTIFICATE OF AN	ALYSIS	
CLIENT: CLAYTON GROUP SERVICES	DATE:	6/5/01
4636 E. MARGINAL WAY S. #215	CCIL JOB #:	105108
SEATTLE, WA 98134	CCIL SAMPLE #:	2
	DATE RECEIVED:	5/25/01
CLIENT CONTACT: GREG FERRIS	WDOE ACCREDITATION #:	C142

 CLIENT PROJECT ID:
 90-01056.00.003

 CLIENT SAMPLE ID:
 052401-S2 5/24/01 1030

:

2101 52 5/24/01 1050

## DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		5/30/01	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES	EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<0.1) ND(<0.1) ND(<0.1) ND(<0.3)	Mg/kg Mg/kg Mg/kg Mg/kg	.5MG/KG 40MG/KG 20MG/KG 20MG/KG	5/30/01 5/30/01 5/30/01 5/30/01	LAH LAH LAH LAH
LEAD	EPA-6010	ND(<16)	MG/KG		6/1/01	LMH

\* "ND" INDICATES ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY:



		CERTIFICATE OF	ANALYSIS	
CLIENT:		I GROUP SERVICES	DATE:	6/5/01
		1ARGINAL WAY S. #215	CCIL JOB #:	105108
	SEATTLE, WA 98134		CCIL SAMPLE #:	3
			DATE RECEIVED:	5/25/01
CLIENT C	ONTACT:	GREG FERRIS	WDOE ACCREDITATION #:	C142

 CLIENT PROJECT ID:
 90-01056.00.003

 CLIENT SAMPLE ID:
 052401-S3 5/24/01 1120

#### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		5/30/01	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES	EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<0.1) ND(<0.1) ND(<0.1) ND(<0.3)	MG/KG MG/KG MG/KG MG/KG	.5MG/KG 40MG/KG 20MG/KG 20MG/KG	5/30/01 5/30/01 5/30/01 5/30/01	LAH LAH LAH LAH
LEAD	EPA-6010	ND(<13)	MG/KG		6/1/01	LMH

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY:

Page 1



	CERTIFICATE OF	ANALYSIS	
CLIENT:	CLAYTON GROUP SERVICES	DATE:	6/5/01
	4636 E. MARGINAL WAY S. #215	CCIL JOB #:	105108
	SEATTLE, WA 98134	CCIL SAMPLE #:	4
		DATE RECEIVED:	5/25/01
		WDOE ACCREDITATION #:	C142
CLIENT C	ONTACT: GREG FERRIS		

CLIENT PROJECT ID:	90-01056.00.003	
CLIENT SAMPLE ID:	052401-S4 5/24/01 1	230

#### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		5/30/01	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES	EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<0.1) ND(<0.1) ND(<0.1) ND(<0.3)	MG/KG MG/KG MG/KG MG/KG	.5MG/KG 40MG/KG 20MG/KG 20MG/KG	5/30/01 5/30/01 5/30/01 5/30/01	LAH LAH LAH LAH
LEAD	EPA-6010	38	MG/KG		6/1/01	LMH

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY:

Page 1

CLIENT:	CLAYTON GROUP SERVICES	DATE:	6/5/01
	4636 E. MARGINAL WAY S. #21	5 CCIL JOB #:	105108
	SEATTLE, WA 98134	CCIL SAMPLE #:	5
		DATE RECEIVED:	5/25/01
		WDOE ACCREDITATION #:	C142
CLIFNT C	ONTACT: GREG FERRIS		

CERTIFICATE OF ANALYSTS

#### GREG FERRIS

CLIENT PROJECT ID:	90-01056.00.003
CLIENT SAMPLE ID:	052401-S5 5/24/01 1320

#### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LÈVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		5/30/01	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES	EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<0.1) ND(<0.1) ND(<0.1) ND(<0.3)	MG/KG MG/K <u>G</u> MG/KG MG/KG	.5MG/KG 40MG/KG 20MG/KG 20MG/KG	5/30/01 5/30/01 5/30/01 5/30/01	LAH LAH LAH LAH
LEAD	EPA-6010	59	MG/KG		6/1/01	LMH

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY: \_

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	Date 05-24-01 Page 1	,	R (Specify)					······································							•								TURNAROUND REQUESTED in Business Days* aanic Anaivsis	Specify:		* Turnaround request less than standard may incur Rush Charges
est	Date 02-		OTHER	□ JAT			(.	· · · ·	ils [] ;	t0 els	TCLF	>	>	>	>								TURNAROUND	2 1 Day	Fuels & Hydrocarbon Analysis	
טוושוויט אוושווט/ aboratory Analysis Request	Feirex		EQUESTED	ţ ouţ [		] <i>k</i> ino 8(	     			8021 8260 8260 8270 8270	493 493 493 493 493												TURNAROUNI Organic, Metals & Inorganic Analvsis	Sindard Sindard	Fuels & Hydroc	Sandard
aboratory A			ANALYSIS REQUESTED		· · · · · · · · · · · · · · · · · · ·	σ		*	X	1-H-1 X X -H-1-1 -H-1	NW. B1E NW	>>	>>	>>	>>	>							mto.			
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600	(206) 292-9059 Seattle (425) 356-2626 Fax		ð	ETERIS	WA AUIS	FAX: (ZOC)	Ų			CCI QUOTE:	DATE TIME	02-24-01 0920	1030	1120	1230	1320								ment cont		
Everett, WA 98208 Everett, WA 98208 Phone (425) 356-2600	(206) 292-9 (425) 356-2	9	2017AJJ	ARES F	j L	26)763-	42 4000			B	SAMPLE I.D.	vi	2401-52	2401-53	2401-54	24 01-55						ISTRUCTIONS	Company	hed By: Contract of the	hed By:	By:
					AUUHESS:		COMPANY: H	ATTENTION:	אטטוורסס.	P.O. NUMBER	SAN	1.052401-	022401	3.052401	4 05 ZH	0524	6.	7.	8	ດ	10.	SPECIAL INSTRUCTIONS	SIGNATURES	1. Relinquished By:	2. Relinquished By:	Received By:

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CLIENT: CLAYTON GROUP SE	RVICES			DATE:	8/3/01	
4636 E. MARGINAL	WAY S. #215	;		CCIL JOB #:	107087	
SEATTLE, WA 98134	F			CCIL SAMPLE #:	1	
				DATE RECEIVED;	7/23/01	
			WDOE A	CCREDITATION #:	C142	
CLIENT CONTACT: GREG FEI	RRIS				01 12	
CLIENT PROJECT ID:	90-01056.0	0.003				
CLIENT SAMPLE ID:	072201-S1	7/22/01 0	0830			
	D/	ATA RESULT	rs			
				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS	LEVEL***	DATE	BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		7/25/04	
			Monto		7/25/01	LAH
BENZENE	EPA-8021	ND(<0.1)	MG/KG	.5MG/KG	7/25/01	LAH
TOLUENE	EPA-8021	ND(<0.1)	MG/KG	40MG/KG	7/25/01	LAH
ETHYLBENZENE	EPA-8021	ND(<0.1)	MG/KG	20MG/KG	7/25/01	LAH
XYLENES	EPA-8021	ND(<0.3)	MG/KG	20MG/KG	7/25/01	

CERTIFICATE OF ANALYSIS

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

ND(<8)

MG/KG

EPA-6010

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

LEAD

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:

20MG/KG

7/25/01

8/3/01

LAH

LMH

Page 1



		CERTIFICATE OF	ANALYSIS		
CLIENT:	4636 E. N	GROUP SERVICES MARGINAL WAY S. #215 WA 98134	DATE: CCIL JOB #: CCIL SAMPLE #:	8/3/01 107087 2	
			DATE RECEIVED: WDOE ACCREDITATION #:	7/23/01	
CLIENT C	ONTACT:	GREG FERRIS	WOOL ACCREDITATION #:	C142	÷

CLIENT PROJECT ID:	90-01056.00.003					
CLIENT SAMPLE ID:	072201-S2 7/22/01 1200					

## DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		7/25/01	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES	EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<0.1) ND(<0.1) ND(<0.1) ND(<0.3)	MG/KG MG/KG MG/KG MG/KG	.5MG/KG 40MG/KG 20MG/KG 20MG/KG	7/25/01 7/25/01 7/25/01 7/25/01	LAH LAH LAH LAH
LEAD	EPA-6010	ND(<7)	MG/KG		8/3/01	LMH

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS; GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:



	CERTIFICATE OF A	VALYSIS	
CLIENT:	CLAYTON GROUP SERVICES	DATE:	8/3/01
	4636 E. MARGINAL WAY S. #215	CCIL JOB #:	107087
	SEATTLE, WA 98134	CCIL SAMPLE #:	3
		DATE RECEIVED:	7/23/01
CLIENT C	ONTACT: GREG FERRIS	WDOE ACCREDITATION #:	C142

 CLIENT PROJECT ID:
 90-01056.00.003

 CLIENT SAMPLE ID:
 072201-S3 7/22/01 1610

ANALYTE	METHOD	<b>RESULTS</b> *	UNITS	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		7/25/01	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES	EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<0.1) ND(<0.1) ND(<0.1) ND(<0.3)	MG/KG MG/KG MG/KG MG/KG	.5MG/KG 40MG/KG 20MG/KG 20MG/KG	7/25/01 7/25/01 7/25/01 7/25/01	LAH LAH LAH LAH
LEAD	EPA-6010	ND(<7)	MG/KG		8/3/01	LMH

DATA RESULTS

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:

Page 1



ETHYLBENZENE

XYLENES

LEAD

	CERTIFI	CATE OF A	VALYSIS			
CLIENT: CLAYTON GROUP SE 4636 E. MARGINAL V SEATTLE, WA 98134	NAY S. #215		DATE: CCIL JOB #: CCIL SAMPLE #: DATE RECEIVED:	8/3/01 107087 4 7/23/01		
CLIENT CONTACT: GREG FEA	RRIS		WDOE	ACCREDITATION #:	C142	
CLIENT PROJECT ID: CLIENT SAMPLE ID:	90-01056.0 072201-S4	00.003 7/22/01 1	900			•
	D/	ATA RESULT	<u>s</u>			
ANALYTE	METHOD	RESULTS*	UNITS	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		7/26/01	LAH
BENZENE TOLUENE FTHVI BENZENE	EPA-8021 EPA-8021	ND(<0.1) ND(<0.1)	MG/KG MG/KG	.5MG/KG 40MG/KG	7/26/01 7/26/01	LAH LAH

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE. REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

ND(<0.1)

ND(<0.3)

ND(<11)

MG/KG

MG/KG

MG/KG

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

EPA-8021

EPA-8021

EPA-6010

APPROVED BY:

20MG/KG

20MG/KG

7/26/01

7/26/01

8/3/01

LAH

LAH

LMH



		CERTIFICATE OF	ANALYSIS		
CLIENT:	4636 E. MARGINAL WAY S. #215		DATE: CCIL JOB #:	8/3/01 107087	
SEATTLE, WA 98134			CCIL SAMPLE #:	5	
			DATE RECEIVED:	7/23/01	
CLIENT C	ONTACT:	GREG FERRIS	WDOE ACCREDITATION #:	C142	

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CLIENT PROJECT ID:	90-01056.00.003
CLIENT SAMPLE ID:	072201-GW1 7/22/01 1545

#### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	580	UG/L		7/24/01	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES MTBE	EPA-8021 EPA-8021 EPA-8021 EPA-8021 EPA-8021	8 ND(<1) 14 50 ND(<3)	UG/L UG/L UG/L UG/L UG/L	5 UG/L 40 UG/L 30 UG/L 20 UG/L	7/24/01 7/24/01 7/24/01 7/24/01 7/24/01	LAH LAH LAH LAH LAH
LEAD	EPA-7421	ND(<0.004)	MG/L		7/24/01	LMH

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY LIGHTLY WEATHERED GASOLINE

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:



						<u></u>
CLIENT: CLAYTON GROUP SE 4636 E. MARGINAL N SEATTLE, WA 98134 CLIENT CONTACT: GREG FE	NAY S. #215		WDOE .	DATE: CCIL JOB #: CCIL SAMPLE #: DATE RECEIVED: ACCREDITATION #:	8/3/01 107087 6 7/23/01 C142	
	1115					
CLIENT PROJECT ID: CLIENT SAMPLE ID:	90-01056.0 072201-GV		1630			
	D	TA RESULT	<b>x</b>			
		(1991)910101010101				
ANALYTE	METHOD	RESULTS*	UNITS	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	UG/L		7/24/01	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES MTBE	EPA-8021 EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<1) ND(<1) ND(<1) ND(<3) ND(<3)	ug/l. Ug/l. Ug/l. Ug/l. Ug/l.	5 UG/L 40 UG/L 30 UG/L 20 UG/L	7/24/01 7/24/01 7/24/01 7/24/01 7/24/01	LAH LAH LAH LAH LAH

CERTIFICATE OF ANALYSIS

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L

MG/L

EPA-7421 ND(<0.004)

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

LEAD

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:

7/24/01

LMH

Page 1



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## CERTIFICATE OF ANALYSIS

CLIENT:	CLAYTON GROUP SERVICES	DATE:	8/3/01
	4636 E. MARGINAL WAY S. #215	CCIL JOB #:	107087
	SEATTLE, WA 98134	CCIL SAMPLE #:	7
		DATE RECEIVED:	7/23/01
		WDOE ACCREDITATION #:	C142

CLIENT CONTACT: GREG FERRIS

CLIENT PROJECT ID:	90-01056.00.003
CLIENT SAMPLE ID:	072201-GW3 7/22/01 2030

## DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS	ACTION	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	240	UG/L		7/24/01	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES MTBE	EPA-8021 EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<1) ND(<1) 4 15 ND(<3)	UG/L UG/L UG/L UG/L UG/L	5 UG/L 40 UG/L 30 UG/L 20 UG/L	7/24/01 7/24/01 7/24/01 7/24/01 7/24/01	LAH LAH LAH LAH LAH
LEAD	EPA-7421	ND(<0.004)	MG/L		7/24/01	LMH

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCT WHICH IS LIKELY LIGHTLY WEATHERED GASOLINE

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:



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CLIENT: CLAYTON GROUP SERVI	CES DATE	: 8/3/01
4636 E. MARGINAL WAY	S. #215 CCIL JOB #	: 107087
SEATTLE, WA 98134	CCIL SAMPLE #	: 8
	DATE RECEIVED	: 7/23/01
CLIENT CONTACT: GREG FERRIS	WDOE ACCREDITATION #	C142

CERTIFICATE OF ANALYSIS

## CLIENT PROJECT ID: 90-01056.00.003 CLIENT SAMPLE ID: 072201-GW4 7/22/01 2100

#### DATA RESULTS

ANALYTE	METHOD	<b>RESULTS</b> *	UNITS	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	· ND	UG/L		7/24/01	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES MTBE	EPA-8021 EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<1) ND(<1) ND(<1) ND(<3) ND(<3)	UG/L UG/L UG/L UG/L UG/L	5 UG/L 40 UG/L 30 UG/L 20 UG/L	7/24/01 7/24/01 7/24/01 7/24/01 7/24/01	LAH LAH LAH LAH LAH
LEAD	EPA-7421	ND(<0.004)	MG/L		7/24/01	LMH

\* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS: GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:



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	CERTIFICATE OF	ANALYSIS	
CLIENT: CLAYTON GROU 4636 E. MARGIN SEATTLE, WA 9	IAL WAY S. #215	DATE: CCIL JOB #:	7/27/01 107087
CLIENT CONTACT: GREC	GFERRIS	DATE RECEIVED: WDOE ACCREDITATION #:	7/23/01 C142
CLIENT PROJECT ID:	90-01056.00.003		
		ROL RESULTS	
	SURROGATE REC	÷ ·	
CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
107087-01	NWTPH-GX	TET	74
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407007.00			
107087-02 107087-02	NWTPH-GX EPA-8021	TFT	97
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107087-03	NWTPH-GX	TET	75
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107007-00	EPA-8021	TFT	98

APPROVED B

8620 Holly Drive • Everett, WA 98208 • 425 356-2600 • FAX 425 356-2626 • Seattle 206 292-9059

Laboratories, Inc. المعالية المعال	rries, Inc.			Chain Ot Custody/	ot c	usto	Jy/			•	Ĺ	CCI Job#	(Laborat.		se Only)	Ì
Everett, WA 98208 Phone (425) 356-2600			Labo	Laboratory Analysis Request	Anal	ysis l	Redu	lest								<u>. '                                   </u>
(206) 292-9059 Seattle (425) 356-2626 Fax	Seattle Fax			×	X223	17			Ĉ			ored Date		5		ר'
PROJECT ID: 90 - 01056 , 00 , 003	-0								ĭ		1	ade		] 5		1
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MANAGER: STORES FEARIS			: <b> </b>						-1						_	
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SEATTLE, WA	90/34						99 (	C	□ 129						2NO	
)763-7364	FAX: (206) 76'	3-4189			··		Vino	]ARDF	4 🗌 k	M	(				SF TIDV	
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SPECIAL INSTRUCTIONS		-														
SIGNATURES (Name, Company, Date, Time):	/Tīme):	~~	ų					Ţ	INARO	JND RE	TURNAROUND REQUESTED in Business Days*	) in Busir	iess Day:	*		
1. Relinquished By: Alteria trainmer	CLAYTON 6	10-52-60	21112		ō¥	nic,	letals &	Inorgani	c Analy	sis	Ċ	0	OTHER:			
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