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Date:

April 18, 2008

ARCADIS Project No.:

B0045449.0002.00200

Subject:

Storm Water Sampling Technical Memorandum No. 2

Former Chevron Willbridge Asphalt Plant
No. 209293
DEQ ECSI Site #1281
5501 NW Front Avenue, Portland, Oregon

Introduction

On behalf of Chevron Environmental Management Company (Chevron), ARCADIS has prepared this technical memorandum providing a summary of the second and third storm water sampling events completed on January 14 and January 26, 2008 at the former Chevron Asphalt Facility Number 209293 (ESCI Site Number 1281). Storm water samples were collected in accordance with the Storm Water Sampling Plan submitted to the Oregon Department of Environmental Quality (DEQ) in October 2007 (ARCADIS BBL, 2007) and the Response to Comments letter submitted to DEQ in January 2008 (ARCADIS, 2008).

January 14, 2008 Storm Water Sampling Event

Summary of Field Events

The second storm water sampling event at the Asphalt Facility was conducted on January 14, 2008 by ARCADIS personnel. During the 24 hours preceding the event, the NW Yeon Avenue rain gauge received no rainfall, which met the dry weather conditions established in the JSCS and defined in the Storm Water Sampling Plan (ARCADIS BBL, 2007). During the storm event, the gauge received 0.31 inches of rain over a 3 hour period. The sampling event was conducted during a storm event as defined by the Joint Source Control Strategy (JSCS) and the Storm Water Sampling Plan (ARCADIS BBL, 2007). Sampling was initiated within 3 hours of the start of the storm event. Storm water samples were collected from the following locations:

- V-33: (sample ID 209293-V33)
- V-39: (sample ID 209293-V39)

Manhole AND864 was opened during the storm event for sample collection; however, no storm water flow was observed in the manhole. Figure 1 presents the storm water sampling locations.

Storm water samples were collected by positioning a stainless steel sampling device in the center of the storm water flow using a storm water sampling pole. Care was taken to avoid eddies or areas of stagnant flow. Samples were then transferred from the sampler to the sampling containers. Once adequate volume had been collected for all of the analytical samples, the sampler was filled and a Horiba water quality meter was used to collect water quality parameters, including temperature, pH, conductivity, dissolved oxygen, turbidity, and oxidation reduction potential. Between sampling locations, the sampler was decontaminated.

Storm water samples were analyzed for the following:

- Metals by EPA method 6000/7000 series
- Total Suspended Solids (TSS) by Standard Method 2540D
- Polychlorinated Biphenyls (PCB) by EPA method 8082
- Organochlorine (OC) Pesticides by EPA method 8081A
- Phthalate Esters by EPA method 8270C
- Polycyclic Aromatic Hydrocarbons (PAH) by EPA method 8270C SIM



- Volatile Organic Compounds (VOC) by EPA method 8260B
- Total Petroleum Hydrocarbons (TPH) by NWTPH

Analytical Results

This section summarizes the analytical results of the first storm water sampling event. Tables 1 through 7 present the analytical results of the storm water sampling. Table 8 presents the water quality parameters that were collected in-situ. Each analytical result was screened against the JSCS Storm Water Screening Level Value (SLV) identified in Table 3-1 of the JSCS (USEPA/DEQ, 2005). Analytical reports from Lancaster Laboratories are presented in Attachment 1.

Metals and TSS

Metals results are presented in Table 1. Total and dissolved metal results were compared to the SLV for dissolved metal results with the exception of arsenic, selenium, and silver, which were compared to SLV for total metal results. Total aluminum was detected above the SLV in sample V-33. Total aluminum, copper, lead, and zinc were detected above the SLV in sample V-39. Dissolved metal concentrations detected in laboratory-filtered samples V-33 and V-39 did not exceed their respective SLV. TSS results are also reported on Table 1. There are no SLV for TSS.

PCB

PCB results are presented in Table 2. PCBs were not detected above the Method Detection Limit (MDL) in any of the samples collected during the January 14, 2008 sampling event. With the exception of Aroclor 1232, the MDL was below the SLV for all Aroclors. The MDL for Aroclor 1232 was 0.039 micrograms per liter ($\mu\text{g/l}$) for sample V-33 and 0.038 $\mu\text{g/l}$ for sample V-39. The SLV for Aroclor 1232 is 0.034 $\mu\text{g/l}$, a difference of 0.005 and 0.004 $\mu\text{g/l}$, respectively.

OC Pesticides

OC Pesticide results are presented in Table 3. OC Pesticides were not detected above the SLV in any of the samples collected during the January 14, 2008 sampling event, with the exception of Total DDT, which was detected above the SLV in both samples. For a number of OC pesticides, the MDL was above the SLV. The lowest achievable MDL for the laboratory were used.

Phthalate Esters

Phthalate Ester results are presented in Table 4. In sample V-33, the detected concentration of bis(2-Ethylhexyl)phthalate exceeded the SLV. Phthalate Esters were not detected above the MDL in sample V-39 during the January 14, 2008 sampling event.

PAH

PAH results are presented in Table 5. In sample V-33, detected concentrations of Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Fluorene, and Indeno(1,2,3-cd)pyrene exceeded the SLV. In sample V-39, detected concentrations of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene and Indeno(1,2,3-cd)pyrene exceeded the SLV.

VOC

VOC results are presented in Table 6. VOCs were not detected above the MDL in the storm water samples collected during the January 14, 2008 sampling event. For a number of VOCs, the MDL was above the SLV. The lowest achievable MDL for the laboratory were used.

TPH

TPH results are presented in Table 7. In sample V-33, detected concentrations of gasoline range, diesel range, and heavy range organics exceeded the MDLs. TPH were not detected above the MDL in sample V-39. There are no SLV for TPH.

January 26, 2008 Storm Water Sampling Event

Summary of Field Events

The third storm water sampling event at the Asphalt Facility was conducted on January 26, 2008 by ARCADIS personnel. During the 24 hours preceding the event, the NW Yeon Avenue rain gauge received no rainfall, which met the dry weather conditions established in the JSCS and defined in the Storm Water Sampling Plan (ARCADIS BBL, 2007). During the storm event, the gauge received 0.66 inches of rain over a 12 hour period. Sampling was initiated within 3 hours of the start of the storm event. The sampling event was conducted during a storm event as defined by the JSCS and the Storm Water Sampling Plan (ARCADIS BBL, 2007). Storm water samples were collected from the following locations:

- V-33: (sample ID 209293-V33)
- V-39: (sample ID 209293-V39)

Manhole AND864 was opened during the storm event for sample collection; however, no storm water flow was observed in the manhole. Figure 1 presents the storm water sampling locations. Storm water samples were collected in the same manner as those collected during the January 14, 2008 event and analyzed for the same constituents described previously.

Analytical Results

This section summarizes the analytical results of the second storm water sampling event. Table 8 presents the water quality parameters that were collected in-situ. Tables 1 through 7 present the analytical results of the storm water sampling. Each analytical result was screened against the JSCS SLV identified in Table 3-1 of the JSCS (USEPA/DEQ, 2005). The analytical reports from Lancaster Laboratories are presented in Attachment 1.

Metals and TSS

Metals results are presented in Table 1. Total and dissolved metal results were compared to the SLV for dissolved metal results with the exception of arsenic, selenium, and silver, which were compared to SLV for total metal results. In sample V-33, detected concentrations of total aluminum, copper, lead, and zinc exceeded the SLV. In sample V-39, detected concentrations of total lead and zinc exceeded the SLV. Dissolved zinc concentrations exceeded the SLV in laboratory-filtered samples V-33 and V-39. TSS results are also reported on Table 1. There are no SLV for TSS.

PCB

PCB results are presented in Table 2. PCBs were not detected above the MDL in any of the samples collected during the January 26, 2008 sampling event. With the exception of Aroclor 1232, the MDL was below the SLV for all Aroclors. The MDL for Aroclor 1232 was 0.038 micrograms per liter ($\mu\text{g/l}$) for samples V-33 and V-39. The SLV for Aroclor 1232 is 0.034 $\mu\text{g/l}$, a difference of 0.004 $\mu\text{g/l}$.

OC Pesticides

OC Pesticide results are presented in Table 3. In sample V-39, Dieldrin and Heptachlor were detected at concentrations exceeding the SLV. In sample V-33, detections of OC Pesticides did not exceed the SLV. For a number of OC pesticides, the MDL was above the SLV. The lowest achievable MDL for the laboratory were used.

Phthalate Esters

Phthalate Ester results are presented in Table 4. Phthalate Esters were not detected above the MDL in samples V-33 and V-39 during the January 26, 2008 sampling event.

PAH

PAH results are presented in Table 5. In sample V-39, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Fluorene,

Indeno(1,2,3-cd)pyrene, and Phenanthrene were detected above the SLV. PAH detections in sample V-33 did not exceed the SLV.

VOC

VOC results are presented in Table 6. VOCs were not detected above the MDL in the storm water samples collected during the January 26, 2008 sampling event with the exception of Acetone, which was detected above the MDL but below the SLV in sample V-39.

TPH

TPH results are presented in Table 7. In sample V-33, diesel range organics were detected above the MDL. In sample V-39, diesel range and heavy range organics were detected above the MDL. There are no SLV for TPH.

Next Steps

The final storm water sampling event was conducted by ARCADIS on March 28, 2008. The results of the event will be summarized in an additional technical memorandum to DEQ when they are received from the analytical laboratory.

References

ARCADIS, 2008. Response to Comments, Chevron Willbridge Distribution Center No. 1001868. January.

ARCADIS BBL, 2007, Storm Water Sampling Plan, Chevron Willbridge Distribution Center No. 100-1868. October.

USEPA/DEQ, 2005. Portland Harbor Joint Source Control Strategy. December. Revised July 16, 2007.

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Attachment

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Tables

TABLE 1
STORM WATER ANALYTICAL RESULTS - METALS

STORM WATER TECHNICAL MEMO NO. 2

FORMER CHEVRON ASPHALT PLANT NO. 209293
5501 NW FRONT AVENUE PORTLAND, OREGON

Sample ID		209293-20071002-V33		209293-V33		209293-V33		209293-V33		209293-20071002-V39		209293-V39		209293-V39		209293-V39		209293-V39	
Lab Sample ID		(Dissolved)		(Total)		(Dissolved)		(Total)		(Dissolved)		(Total)		(Dissolved)		(Total)		(Dissolved)	
Sample Date		5176351		5257717		5257718		5256527		5176353		5257719		5257720		5266525		5266526	
		10/2/2007		1/14/2008		1/14/2008		1/26/2008		1/26/2008		10/2/2007		1/14/2008		1/14/2008		1/26/2008	
Metals (µg/L)	SLV																		
Aluminum	(50-200)	80.2	U	170		80.2	U	248		80.2	U	80.2	U	446		80.2	U	80.2	U
Antimony	6	0.20		0.14		0.081		0.13		0.082		0.40		0.18		0.11		0.42	
Arsenic	0.045	0.70	U	0.70	U	0.70	U	0.70	U	0.70	U	0.70	U	0.70	U	0.70	U	0.70	U
Cadmium	0.094	0.17		0.099	U	0.099	U	0.13	U	0.099	U	0.099	U	0.099	U	0.099	U	0.099	U
Chromium	100	0.42	U	1.1		0.42	U	0.76		0.42	U	0.65		1.7		0.42	U	0.77	
Copper	2.7	8.8		2.2	U	2.2		3.6		2.2	U	7.2		5.6		2.2	U	2.2	U
Total Cyanide (water)	5.2	5 ¹	U	5.0	U	-		5.0	U	-		5.0 ¹	U	5.0	U	-		5.0	U
Lead	0.54	0.17		3.6		0.098		2.9		0.088		0.22		5.4		0.081		0.71	
Mercury	0.77	0.056	U	0.099		0.072		0.065		0.068		0.056	U	0.13		0.093		0.16	
Nickel	16	1.7		1.4		0.43	U	1.3		0.66		2.0		1.2		0.43	U	1.3	
Selenium	5 ^a	0.53	U	0.53	U	0.53	U	0.53	U	0.53	U	0.53	U	0.53	U	0.53	U	0.53	U
Silver	-	1.6 ¹	U	1.6	U	2.2	U	1.6	U	1.6	U	1.6 ¹	U	1.6	U	1.6	U	1.6	U
Zinc	36	107		42.8	U	1.6	U	122		109		41.7		38.4		21.4		41	
Total Suspended Solids	-	16,800 ¹		8,000		-		9,270,000		-		5,200 ¹		23,600		-		10,400	

Notes:

Samples were lab filtered to analyze dissolved fraction

U = analyte not detected above indicated detection limit

- = No Screening Level Value (SLV) available or sample not analyzed

µg/L = micrograms per liter

Bold font indicates exceedance of SLVs

EPA Method 7471A used for analysis of mercury

EPA Method 6010b used for analysis of aluminium, copper, silver and zinc

EPA Method 6020 used for analysis of antimony, arsenic, cadmium, chromium, lead, nickel and selenium

EPA Method SW-846 9012A used for analyses of Total Cyanide

SLV: DEQ/Portland Harbor Joint Source Control Strategy Screening Level Values

SLV values reflect the 7/16/07 revision table, where numbers highlighted in yellow are used for initial upland source control screening evaluation for water.

a. The SLV is expressed as total recoverable metal in the water column. For this analyte, only the dissolved fraction was analyzed. The total recoverable analysis will be included in subsequent events.

1. For the 10/2/07 sampling event, the metals results were reported as metals detected in the dissolved fraction, with the exception of silver, cyanide, and suspended solids, which were reported as total silver, total cyanide and total suspended solids in the sample.

TABLE 2
STORM WATER ANALYTICAL RESULTS - POLYCHLORINATED BIPHENYLS (PCBs)

STORM WATER TECHNICAL MEMO NO. 2

FORMER CHEVRON ASPHALT PLANT NO. 209293
5501 NW FRONT AVENUE PORTLAND, OREGON

Sample ID Lab Sample ID Sample Date		209293-20071002-V33 5176350 10/2/2007	209293-V33 5257717 1/14/2008	209293-V33 5266525 1/26/2008	209293-20071002-V39 5176352 10/2/2007	209293-V39 5257719 1/14/2008	209293-V39 5266527 1/26/2008
PCBs (µg/L)	SLV						
Aroclor-1268	-	0.096 U	0.020 U	0.019 U	0.11 U	0.019 U	0.019 U
Aroclor-1016	0.96	0.096 U	0.020 U	0.019 U	0.11 U	0.019 U	0.019 U
Aroclor-1221	0.034	0.11 U	0.020 U	0.019 U	0.12 U	0.019 U	0.019 U
Aroclor-1232	0.034	0.096 U	0.039 U	0.038 U	0.11 U	0.038 U	0.038 U
Aroclor-1242	0.034	0.096 U	0.020 U	0.019 U	0.11 U	0.019 U	0.019 U
Aroclor-1248	0.034	0.096 U	0.020 U	0.019 U	0.11 U	0.019 U	0.019 U
Aroclor-1254	0.033	0.14 U	0.020 U	0.019 U	0.15 U	0.019 U	0.019 U
Aroclor-1260	0.034	0.096 U	0.020 U	0.019 U	0.11 U	0.019 U	0.019 U
Aroclor-1262	-	0.096 U	0.039 U	0.038 U	0.11 U	0.038 U	0.038 U
Total PCB	0.000064	ND	ND	ND	ND	ND	ND

Notes:

U = analyte not detected above indicated detection limit

- = No Screening Level Value (SLV) available or sample not analyzed

µg/L = micrograms per liter

Bold font indicates exceedance of SLVs

EPA Method 8082 used for analysis of PCBs

SLV: DEQ/Portland Harbor Joint Source Control Strategy Screening Level Values

Total PCB is the summation of the individual Aroclors.

ND = not detected

TABLE 3
STORM WATER ANALYTICAL RESULTS - PESTICIDES

STORM WATER TECHNICAL MEMO NO. 2

FORMER CHEVRON ASPHALT PLANT NO. 209293
5501 NW FRONT AVENUE PORTLAND, OREGON

Sample ID Lab Sample ID Sample Date		209293-20071002-V33 5176350 10/2/2007	209293-V33 5257717 1/14/2008	209293-V33 5266525 1/26/2008	209293-20071002-V39 5176352 10/2/2007	209293-V39 5257719 1/14/2008	209293-V39 5266527 1/26/2008
Organochlorine Pesticides (µg/L)	SLV						
Endrin Ketone	-	0.0039 U	0.00079 U	0.00076 U	0.0039 U	0.00076 U	0.00076 U
Kepone	-	0.068 U	0.014 U	0.013 U	0.068 U	0.013 U	0.013 U
Alpha Chlordane	-	0.0029 U	0.00059 U	0.0024	0.0029 U	0.00057 U	0.0029 U
Gamma Chlordane	-	0.0029 U	0.00059 U	0.00057 U	0.0029 U	0.00062	0.00057 U
Endrin Aldehyde	-	0.019 U	0.0039 U	0.0038 U	0.019 U	0.0038 U	0.0038 U
Alpha BHC	0.0049	0.0026 U	0.00053 U	0.00052 U	0.0026 U	0.00096	0.00051 U
Beta BHC	0.017	0.0039 U	0.0010	0.00076 U	0.0039 U	0.00076 U	0.00076 U
Gamma BHC - Lindane	0.052	0.0019 U	0.00039 U	0.00038 U	0.0019 U	0.00038 U	0.00038 U
Heptachlor	0.000079	0.0032	0.00059 U	0.00057 U	0.0029 U	0.00057 U	0.0016
Aldrin	0.000005	0.0039 U	0.00079 U	0.00076 U	0.0029 U	0.00076 U	0.00076 U
Delta BHC	0.037	0.0029 U	0.00059 U	0.00068	0.0039 U	0.00098	0.00057 U
Heptachlor Epoxide	0.000039	0.0029 U	0.00059 U	0.00057 U	0.0029 U	0.00057 U	0.00057 U
p,p-DDE	-	0.0048 U	0.00099 U	0.00095 U	0.0049 U	0.00095 U	0.00095 U
p,p-DDD	-	0.0039 U	0.00079 U	0.00076 U	0.0039 U	0.00076 U	0.00076 U
p,p-DDT	-	0.0039 U	0.0011	0.00076 U	0.0039 U	0.00084	0.00076 U
HCB	-	0.0029 U	0.00059 U	0.00057 U	0.0029 U	0.00057 U	0.00097
Mirex	-	0.037 U	0.0075 U	0.0072 U	0.037 U	0.0072 U	0.0072 U
Methoxychlor	0.03	0.029 U	0.0059 U	0.0057 U	0.029 U	0.0057 U	0.0057 U
Dieldrin	0.000054	0.0039 U	0.00079 U	0.00076 U	0.0039 U	0.00076 U	0.00096
Endrin	0.036	0.0039 U	0.00079 U	0.00076 U	0.0039 U	0.00076 U	0.0019
Telodrin	-	0.0035 U	0.00071 U	0.00069 U	0.0035 U	0.00068 U	0.00068 U
Chlordane	0.00081	0.068 U	0.014 U	0.013 U	0.068 U	0.013 U	0.013 U
Toxaphene	0.0002	0.97 U	0.20 U	0.19 U	0.97 U	0.19 U	0.19 U
Endosulfan I	0.051	0.0029 U	0.00059 U	0.00057 U	0.0029 U	0.00057 U	0.00057 U
Endosulfan II	0.051	0.0039 U	0.0018	0.00076 U	0.0039 U	0.0011	0.00076 U
Endosulfan Sulfate	89	0.0039 U	0.00079 U	0.00076 U	0.0039 U	0.00079	0.00076 U
o,p-DDE	-	0.0039 U	0.00079 U	0.00076 U	0.0039 U	0.00076 U	0.00076 U
o,p-DDD	-	0.0039 U	0.00079 U	0.00076 U	0.0039 U	0.00076 U	0.00076 U
o,p-DDT	-	0.0039 U	0.0020	0.00076 U	0.0039 U	0.00094	0.00076 U
Total DDE	0.00022	ND	ND	ND	ND	ND	ND
Total DDD	0.00031	ND	ND	ND	ND	ND	ND
Total DDT	0.00022	ND	0.0031	ND	ND	0.00178	ND

Notes:
U = analyte not detected above indicated detection limit
- = No Screening Level Value (SLV) available or sample not analyzed
µg/L = micrograms per liter
Bold font indicates exceedance of SLVs
SLV: DEQ/Portland Harbor Joint Source Control Strategy Screening Level Values
EPA Method SW-846 8081A used for analysis of organochlorine pesticides

TABLE 4
STORM WATER ANALYTICAL RESULTS - PHTHALATE ESTERS

STORM WATER TECHNICAL MEMO NO. 2

FORMER CHEVRON ASPHALT PLANT NO. 209293
5501 NW FRONT AVENUE PORTLAND, OREGON

Sample ID		209293-20071002-V33		209293-V33		209293-V33		209293-20071002-V39		209293-V39		209293-V39	
Lab Sample ID		5176350		5257717		5266525		5176352		5257719		5266527	
Sample Date		10/2/2007		1/14/2008		1/26/2008		10/2/2007		1/14/2008		1/26/2008	
Phthalate Esters (µg/L)		SLV											
Dimethylphthalate	3	2	U	2	U	2	U	2	U	2	U	2	U
Diethylphthalate	3	2	U	2	U	2	U	2	U	2	U	2	U
Di-n-butylphthalate	3	2	U	2	U	2	U	2	U	2	U	2	U
Butylbenzylphthalate	3	2	U	2	U	2	U	2	U	2	U	2	U
bis(2-Ethylhexyl)phthalate	2.2	2		6		2	U	2	U	2	U	2	U
Di-n-octylphthalate	3	2	U	2	U	2	U	2	U	2	U	2	U

Notes:
U = analyte not detected above indicated detection limit
- = No Screening Level Value (SLV) available or sample not analyzed
µg/L = micrograms per liter
Bold font indicates exceedance of SLVs
EPA Method 8270 C used for analysis of Phthalate Esters
SLV: DEQ/Portland Harbor Joint Source Control Strategy Screening Level Values

TABLE 5
STORM WATER ANALYTICAL RESULTS - POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

STORM WATER TECHNICAL MEMO NO. 2

FORMER CHEVRON ASPHALT PLANT NO. 209293
5501 NW FRONT AVENUE PORTLAND, OREGON

Sample ID		209293-20071002-V33		209293-V33		209293-V33		209293-20071002-V39		209293-V39		209293-V39	
Lab Sample ID		5176350		52517717		5266525		5176352		5257719		5266527	
Sample Date		10/2/2007		1/14/2008		1/26/2008		10/2/2007		1/14/2008		1/26/2008	
PAHs (µg/L)		SLV											
Acenaphthene	0.2	0.0095	U	0.42		0.0095		U	0.010	U	0.011	0.21	
Acenaphthylene	0.2	0.0095	U	0.0096		U		0.0095	U	0.010	U	0.014	0.097
Anthracene	0.2	0.0095	U	0.0096		U		0.0095	U	0.010	U	0.010	0.13
Benzo(a)anthracene	0.018	0.0095	U	0.081		0.0095		U	0.010	U	0.027	0.037	
Benzo(a)pyrene	0.018	0.014		0.13		0.012			0.010	U	0.062	0.038	
Benzo(b)fluoranthene	0.018	0.029		0.21		0.012			0.010	U	0.083	0.043	
Benzo(g,h,i)perylene	0.2	0.027		0.038		0.012			0.010	U	0.079	0.038	
Benzo(k)fluoranthene	0.018	0.010		0.039		0.0095		U	0.010	U	0.036	0.036	
Chrysene	0.018	0.030		0.21		0.011			0.010	U	0.053	0.078	
Dibenz(a,h)anthracene	0.018	0.0095	U	0.010		0.0095		U	0.010	U	0.010	0.0095	
Fluoranthene	0.2	0.031		0.0096		U		0.010	0.010	U	0.081	0.15	
Fluorene	0.2	0.0095	U	0.87		0.0095		U	0.010	U	0.035	0.35	
Indeno(1,2,3-cd)pyrene	0.018	0.016		0.028		0.0095		U	0.010	U	0.052	0.023	
Naphthalene	0.2	0.010		0.0096		U		0.0095	U	0.010	U	0.028	0.19
Phenanthrene	0.2	0.029		3.6		0.0095		U	0.010	U	0.092	0.75	
Pyrene	0.2	0.041		0.45		0.025			0.010	U	0.098	0.17	

Notes:

U = analyte not detected above indicated detection limit
- = No Screening Level Value (SLV) available or sample not analyzed
µg/L = micrograms per liter
Bold font indicates exceedance of SLVs
EPA Method 8270 C used for analysis of PAHs. EPA Method 8270 C SIM used for analysis of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, and Indeno(1,2,3-cd)pyrene.
SLV: DEQ/Portland Harbor Joint Source Control Strategy Screening Level Values

TABLE 6
STORM WATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS (VOCs)

STORM WATER TECHNICAL MEMO NO. 2

FORMER CHEVRON ASPHALT PLANT NO. 209293
5501 NW FRONT AVENUE PORTLAND, OREGON

Sample ID		209293-V33		209293-V33		209293-V39		209293-V39
Lab Sample ID		5257717		5266525		5257719		5266527
Sample Date		1/14/2008		1/26/2008		1/14/2008		1/26/2008
Volatile Organic Compounds (µg/l)		SLV						
Methyl Tertiary Butyl Ether	37	0.5	U	0.5	U	0.5	U	0.5
Dichlorodifluoromethane	390	2	U	2	U	2	U	2
Chloromethane	2.1	1	U	1	U	1	U	1
Vinyl Chloride	0.015	1	U	1	U	1	U	1
Bromomethane	8.7	1	U	1	U	1	U	1
Chloroethane	23	1	U	1	U	1	U	1
Trichlorofluoromethane	1,300	2	U	2	U	2	U	2
Methylene Chloride	8.9	2	U	2	U	2	U	2
trans-1,2-Dichloroethene	110	0.8	U	0.8	U	0.8	U	0.8
1,1-Dichloroethane	47	1	U	1	U	1	U	1
cis-1,2-Dichloroethene	-	0.8	U	0.8	U	0.8	U	0.8
Chloroform	0.17	0.8	U	0.8	U	0.8	U	0.8
Bromochloromethane	-	1	U	1	U	1	U	1
1,1,1-Trichloroethane	11	0.8	U	0.8	U	0.8	U	0.8
Carbon Tetrachloride	0.51	1	U	1	U	1	U	1
Benzene	1.2	0.5	U	0.5	U	0.5	U	0.5
1,2-Dichloroethane	0.73	1	U	1	U	1	U	1
Trichloroethene	0.17	1	U	1	U	1	U	1
1,2-Dichloropropane	0.97	1	U	1	U	1	U	1
Dibromomethane	61	1	U	1	U	1	U	1
Bromodichloromethane	1.1	1	U	1	U	1	U	1
Toluene	9.8	0.7	U	0.7	U	0.7	U	0.7
1,1,2-Trichloroethane	1.2	0.8	U	0.8	U	0.8	U	0.8
Tetrachloroethene	0.12	0.8	U	0.8	U	0.8	U	0.8
Dibromochloromethane	-	1	U	1	U	1	U	1
1,2-Dibromoethane	0.033	1	U	1	U	1	U	1
Chlorobenzene	-	0.8	U	0.8	U	0.8	U	0.8
1,1,1,2-Tetrachloroethane	2.5	1	U	1	U	1	U	1
Ethylbenzene	7.3	0.8	U	0.8	U	0.8	U	0.8
m+p-Xylene	1.8	0.8	U	0.8	U	0.8	U	0.8
o-Xylene	13	0.8	U	0.8	U	0.8	U	0.8
Styrene	-	1	U	1	U	1	U	1
Bromoform	8.5	1	U	1	U	1	U	1
Isopropylbenzene	660	1	U	1	U	1	U	1
1,1,2,2-Tetrachloroethane	0.33	1	U	1	U	1	U	1
1,2,3-Trichloropropane	0.0095	1	U	1	U	1	U	1
Acetone	1,500	6	U	6	U	6	U	17
Carbon Disulfide	0.92	1	U	1	U	1	U	1
2-Butanone	7,100	3	U	3	U	3	U	3
trans-1,3-Dichloropropene	0.055	1	U	1	U	1	U	1
cis-1,3-Dichloropropene	0.055	1	U	1	U	1	U	1
4-Methyl-2-pentanone	170	3	U	3	U	3	U	3
2-Hexanone	99	3	U	3	U	3	U	3
Xylene (Total)	200	0.8	U	0.8	U	0.8	U	0.8
Methyl Iodide	-	1	U	1	U	1	U	1
Acrylonitrile	0.12	4	U	4	U	4	U	4
Vinyl Acetate	16	2	U	2	U	2	U	2
trans-1,4-Dichloro-2-butene	7,100	15	U	15	U	15	U	15
Acrolein	0.042	40	U	40	U	40	U	40
2-Chloroethyl Vinyl Ether	-	2	U	2	U	2	U	2

Notes:

U = analyte not detected above indicated detection limit

- = No Screening Level Value (SLV) available

µg/L = micrograms per liter

Bold font indicates exceedance of SLVs

SLV: DEQ/Portland Harbor Joint Source Control Strategy Screening Level Values

EPA Method SW-846 8081A used for analysis of organochlorine pesticides

TABLE 7
STORM WATER ANALYTICAL RESULTS - TOTAL PETROLEUM HYDROCARBONS (TPH)

STORM WATER TECHNICAL MEMO NO. 2

FORMER CHEVRON ASPHALT PLANT NO. 209293
5501 NW FRONT AVENUE PORTLAND, OREGON

Sample ID		209293-20071002-V33	209293-V33	209293-V33	209293-20071002-V39	209293-V39	209293-V39
Lab Sample ID		5176350	5257717	5266525	5176352	5257719	5266527
Sample Date		10/2/2007	1/14/2008	1/26/2008	10/2/2007	1/14/2008	1/26/2008
TPH (µg/L)	SLV						
Diesel Range Organics	-	160	230	81	81 U	50 U	1,600
Heavy Range Organics	-	240	11,000	96 U	100 U	76 U	560
Gasoline Range Organics	-	50 U	2,000	50 U	50 U	95 U	50 U

Notes:
U = analyte not detected above indicated detection limit
- = No Screening Level Value (SLV) available or sample not analyzed
µg/L = micrograms per liter
Bold font indicates exceedance of SLVs
NWTPH-Dx w/SiGel Method used for analysis of diesel and heavy range organics
NWTPH-Gx used for analysis of gasoline range organics
SLV: DEQ/Portland Harbor Joint Source Control Strategy Screening Level Values

TABLE 8
JANUARY 14 AND JANUARY 26, 2008 STORM WATER SAMPLING WATER QUALITY PARAMETERS

STORM WATER TECHNICAL MEMO NO. 2

FORMER CHEVRON ASPHALT PLANT NO. 209293
5501 NW FRONT AVENUE PORTLAND, OREGON

Sample Location	V-33	V-39	V-33	V-39	V-33	V-39
Sample Date	10/2/2007	10/2/2007	1/14/2008	1/14/2008	1/26/2008	1/26/2008
Sample Time	18:10	19:15	17:08	16:12	13:54	13:07
Water Quality Parameters						
Temperature (°C)	17.2	15.2	6.77	7.12	3.82	8.23
pH	8.0	6.91	6.57	7.77	6.33	5.53
Conductivity (mS/cm)	0.032	0.072	0.039	0.053	0.048	0.092
Dissolved Oxygen (mg/L)	10.42	9.31	8.81	5.35	10.65	6.67
Turbidity (NTU)	42.5	7.8	10.0	11.9	15.0	8.1
Oxidation Reduction Potential (mV)	375	407	192.8	214.3	193.3	204.9

Notes:

Water quality parameters were collected with a Horiba Water Quality Meter during the 10/2/2007 sampling event

Water quality parameters were collected with a YSI 6920 Sonde Water Quality Meter during the 1/14/2008 and 1/26/2008 sampling events

°C = degrees Celsius

mS/cm = millisiemens per centimeter

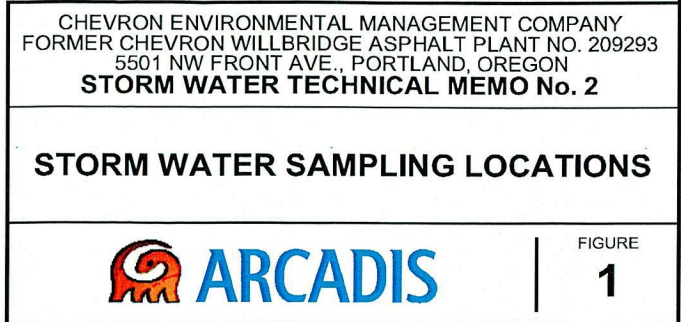
mg/L = milligrams per liter

NTU = nephelometric turbidity units

mV = millivolts

ARCADIS

Figure



ARCADIS

Attachment 1

Analytical Reports

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425SAMPLE GROUP

The sample group for this submittal is 1073482. Samples arrived at the laboratory on Wednesday, January 16, 2008. The PO# for this group is 0015014293 and the release number is SKANCE.

Client Description209293-V33 Grab Water Sample
209293-V33 Filtered Grab Water Sample
209293-V39 Grab Water Sample
209293-V39 Filtered Grab Water Sample
Trip Blank Water SampleLancaster Labs Number5257717
5257718
5257719
5257720
5257721ELECTRONIC Arcadis US, Inc.
COPY TO
ELECTRONIC ARCADIS U.S., Inc.
COPY TO
ELECTRONIC BB&L
COPY TO

Attn: Brooke Bonkoski

Attn: Colleen Martin

Attn: Grant Sprick



Analysis Report

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Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Chad Moline".

Chad A. Moline
Group Leader



Analysis Report

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Page 1 of 6

Lancaster Laboratories Sample No. WW5257717

Group No. 1073482

209293-V33 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008 16:30 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

55033

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00259	Mercury	7439-97-6	0.099		0.056	ug/l	1
01743	Aluminum	7429-90-5	170.		80.2	ug/l	1
06024	Antimony	7440-36-0	0.14		0.044	ug/l	1
06025	Arsenic	7440-38-2	N.D.		0.70	ug/l	1
06028	Cadmium	7440-43-9	N.D.		0.099	ug/l	1
06031	Chromium	7440-47-3	1.1		0.42	ug/l	1
06035	Lead	7439-92-1	3.6		0.047	ug/l	1
06039	Nickel	7440-02-0	1.4		0.43	ug/l	1
06041	Selenium	7782-49-2	N.D.		0.53	ug/l	1
07053	Copper	7440-50-8	N.D.		2.2	ug/l	1
07066	Silver	7440-22-4	N.D.		1.6	ug/l	1
07072	Zinc	7440-66-6	42.8		8.1	ug/l	1
00206	Total Suspended Solids	n.a.	8,000.		3,000.	ug/l	1
08255	Total Cyanide (water)	57-12-5	N.D.		5.0	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095	Diesel Range Organics	n.a.	11,000.		760.	ug/l	10
02096	Heavy Range Organics	n.a.	2,000.		950.	ug/l	10
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	230.		50.	ug/l	1
00177	OC Pesticides in Water						
00938	Endrin Ketone	53494-70-5	N.D.		0.00079	ug/l	1
01321	Kepon	143-50-0	N.D.		0.014	ug/l	1
01361	Alpha Chlordane	5103-71-9	N.D.		0.00059	ug/l	1
01362	Gamma Chlordane	5103-74-2	N.D.		0.00059	ug/l	1
01618	Endrin Aldehyde	7421-93-4	N.D.		0.0039	ug/l	1
01880	Alpha BHC	319-84-6	N.D.		0.00053	ug/l	1
01881	Beta BHC	319-85-7	0.0010		0.00079	ug/l	1
01882	Gamma BHC - Lindane	58-89-9	N.D.		0.00039	ug/l	1
01883	Delta BHC	319-86-8	N.D.		0.00059	ug/l	1
01884	Heptachlor	76-44-8	N.D.		0.00059	ug/l	1
01885	Aldrin	309-00-2	N.D.		0.00079	ug/l	1
01886	Heptachlor Epoxide	1024-57-3	N.D.		0.00059	ug/l	1
01887	p,p-DDE	72-55-9	N.D.		0.00099	ug/l	1
01888	p,p-DDD	72-54-8	N.D.		0.00079	ug/l	1
01889	p,p-DDT	50-29-3	0.0011		0.00079	ug/l	1



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Lancaster Laboratories Sample No. WW5257717

Group No. 1073482

209293-V33 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008 16:30 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

55033

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
01890	HCB	118-74-1	N.D.	0.00059	ug/l	1
01891	Mirex	2385-85-5	N.D.	0.0075	ug/l	1
01892	Methoxychlor	72-43-5	N.D.	0.0059	ug/l	1
01893	Dieldrin	60-57-1	N.D.	0.00079	ug/l	1
01894	Endrin	72-20-8	N.D.	0.00079	ug/l	1
01895	Telodrin	297-78-9	N.D.	0.00071	ug/l	1
01896	Chlordane	57-74-9	N.D.	0.014	ug/l	1
01897	Toxaphene	8001-35-2	N.D.	0.20	ug/l	1
01898	Endosulfan I	959-98-8	N.D.	0.00059	ug/l	1
01899	Endosulfan II	33213-65-9	0.0018	0.00079	ug/l	1
01900	Endosulfan Sulfate	1031-07-8	N.D.	0.00079	ug/l	1
07077	o,p-DDE	3424-82-6	N.D.	0.00079	ug/l	1
07078	o,p-DDD	53-19-0	N.D.	0.00079	ug/l	1
07079	o,p-DDT	789-02-6	0.0020	0.00079	ug/l	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this affect is attributed to the sample matrix and the data is reported.

The LCS recovery for endrin is outside the QC limits. There was not enough sample remaining to perform a second extraction. The client was notified and approved reporting data.

07394 PCBs in Water

07395	PCB-1016	12674-11-2	N.D.	0.020	ug/l	1
07397	PCB-1221	11104-28-2	N.D.	0.020	ug/l	1
07398	PCB-1232	11141-16-5	N.D.	0.039	ug/l	1
07399	PCB-1242	53469-21-9	N.D.	0.020	ug/l	1
07401	PCB-1248	12672-29-6	N.D.	0.020	ug/l	1
07403	PCB-1254	11097-69-1	N.D.	0.020	ug/l	1
07404	PCB-1260	11096-82-5	N.D.	0.020	ug/l	1
07405	PCB-1262	37324-23-5	N.D.	0.039	ug/l	1
07406	PCB-1268	11100-14-4	N.D.	0.020	ug/l	1

04678 TCL SW846 Semivolatiles/Waters

03952	Dimethylphthalate	131-11-3	N.D.	2.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	6.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW5257717

Group No. 1073482

209293-V33 Grab Water Sample

Facility# 209293

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Collected: 01/14/2008 16:30 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

55033

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08357	Selected SVOAs by 8270 SIM					
08362	Naphthalene	91-20-3	N.D.	0.0096	ug/l	1
08365	Acenaphthylene	208-96-8	N.D.	0.0096	ug/l	1
08366	Acenaphthene	83-32-9	0.42	0.0096	ug/l	1
08368	Fluorene	86-73-7	0.87	0.0096	ug/l	1
08369	Phenanthrene	85-01-8	3.6	0.0096	ug/l	1
08370	Anthracene	120-12-7	N.D.	0.0096	ug/l	1
08372	Fluoranthene	206-44-0	N.D.	0.0096	ug/l	1
08373	Pyrene	129-00-0	0.45	0.0096	ug/l	1
08374	Benzo(a)anthracene	56-55-3	0.081	0.0096	ug/l	1
08375	Chrysene	218-01-9	0.21	0.0096	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	0.21	0.0096	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	0.039	0.0096	ug/l	1
08378	Benzo(a)pyrene	50-32-8	0.13	0.0096	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	0.028	0.0096	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	0.010	0.0096	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	0.038	0.0096	ug/l	1
Phenanthrene was detected in the method blank at a concentration of .018 ug/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.						
05382	EPA SW846/8260 (water)					
05384	Dichlorodifluoromethane	75-71-8	N.D.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW5257717

Group No. 1073482

209293-V33 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008 16:30 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

55033

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
08202	EPA SW 846/8260 - Water					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
06302	Acetone	67-64-1	N.D.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.	2.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06888	Acrolein	107-02-8	N.D.	40.	ug/l	1
07583	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2.	ug/l	1
	2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.					

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



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Lancaster Laboratories Sample No. WW5257717

Group No. 1073482

209293-V33 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008 16:30 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

55033

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method Detection Limit	Units	Dilution Factor

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	02/01/2008 15:57	Nelli S Markaryan	1
01743	Aluminum	SW-846 6010B	1	01/22/2008 03:43	Choon Y Tian	1
06024	Antimony	SW-846 6020	1	02/04/2008 19:52	David K Beck	1
06025	Arsenic	SW-846 6020	1	02/04/2008 19:52	David K Beck	1
06028	Cadmium	SW-846 6020	1	02/04/2008 19:52	David K Beck	1
06031	Chromium	SW-846 6020	1	02/04/2008 19:52	David K Beck	1
06035	Lead	SW-846 6020	1	02/04/2008 19:52	David K Beck	1
06039	Nickel	SW-846 6020	1	02/04/2008 19:52	David K Beck	1
06041	Selenium	SW-846 6020	1	02/04/2008 19:52	David K Beck	1
07053	Copper	SW-846 6010B	1	01/22/2008 03:43	Choon Y Tian	1
07066	Silver	SW-846 6010B	1	01/22/2008 03:43	Choon Y Tian	1
07072	Zinc	SW-846 6010B	1	01/22/2008 03:43	Choon Y Tian	1
00206	Total Suspended Solids	SM20 2540 D	1	01/17/2008 21:43	Geraldine C Smith	1
08255	Total Cyanide (water)	SW-846 9012A	1	01/25/2008 13:34	William L Hamaker Jr	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	01/24/2008 09:20	Matthew E Barton	10
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	01/17/2008 16:02	Steven A Skiles	1
00177	OC Pesticides in Water	SW-846 8081A	1	01/21/2008 00:52	Lindsey K Lafferty	1
07394	PCBs in Water	SW-846 8082	1	01/25/2008 00:57	Jamie L Brillhart	1
04678	TCL SW846	SW-846 8270C	1	01/21/2008 02:09	William T Parker	1
08357	Semivolatiles/Waters Selected SVOAs by 8270 SIM	SW-846 8270C SIM	1	01/24/2008 15:54	Timothy J Trees	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	01/18/2008 00:08	Nicholas R Rossi	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	01/18/2008 00:08	Nicholas R Rossi	1
00813	BNA Water Extraction	SW-846 3510C	1	01/18/2008 10:40	Jessica Agosto	1
00813	BNA Water Extraction	SW-846 3510C	2	01/18/2008 12:00	Olivia Arosemena	1
00817	Water Sample Pest. Extraction	SW-846 3510C	1	01/18/2008 03:30	Sherry L Morrow	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/17/2008 16:02	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/18/2008 00:08	Nicholas R Rossi	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/21/2008 18:40	James L Mertz	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	01/21/2008 05:30	Tracy L Schickel	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	01/31/2008 16:00	Nelli S Markaryan	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	01/31/2008 19:55	James L Mertz	1
08256	Cyanide Water Distillation	SW-846 9012A	1	01/19/2008 03:15	Carolyn M Mastropietro	1



Analysis Report

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Lancaster Laboratories Sample No. WW5257717

Group No. 1073482

209293-V33 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008 16:30 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

55033



Analysis Report

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Lancaster Laboratories Sample No. WW5257718

Group No. 1073482

209293-V33 Filtered Grab Water Sample
Facility# 209293
5501 NW Front Ave - Portland, OR
Collected: 01/14/2008 16:30 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00
Reported: 02/05/2008 at 07:42
Discard: 03/07/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00259	Mercury	7439-97-6	0.072		0.056	ug/l	1
01743	Aluminum	7429-90-5	N.D.		80.2	ug/l	1
06024	Antimony	7440-36-0	0.081		0.044	ug/l	1
06025	Arsenic	7440-38-2	N.D.		0.70	ug/l	1
06028	Cadmium	7440-43-9	N.D.		0.099	ug/l	1
06031	Chromium	7440-47-3	N.D.		0.42	ug/l	1
06035	Lead	7439-92-1	0.098		0.047	ug/l	1
06039	Nickel	7440-02-0	N.D.		0.43	ug/l	1
06041	Selenium	7782-49-2	N.D.		0.53	ug/l	1
07053	Copper	7440-50-8	N.D.		2.2	ug/l	1
07066	Silver	7440-22-4	N.D.		1.6	ug/l	1
07072	Zinc	7440-66-6	33.8		8.1	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00259	Mercury	SW-846 7470A	1	01/18/2008 08:28		Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	01/22/2008 03:47		Choon Y Tian	1
06024	Antimony	SW-846 6020	1	01/22/2008 21:14		David K Beck	1
06025	Arsenic	SW-846 6020	1	01/22/2008 21:14		David K Beck	1
06028	Cadmium	SW-846 6020	1	01/22/2008 21:14		David K Beck	1
06031	Chromium	SW-846 6020	1	01/22/2008 21:14		David K Beck	1
06035	Lead	SW-846 6020	1	01/22/2008 21:14		David K Beck	1
06039	Nickel	SW-846 6020	1	01/22/2008 21:14		David K Beck	1
06041	Selenium	SW-846 6020	1	01/22/2008 21:14		David K Beck	1
07053	Copper	SW-846 6010B	1	01/22/2008 03:47		Choon Y Tian	1
07066	Silver	SW-846 6010B	1	01/22/2008 03:47		Choon Y Tian	1
07072	Zinc	SW-846 6010B	1	01/22/2008 03:47		Choon Y Tian	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/21/2008 18:40		James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	01/17/2008 18:15		Nelli S Markaryan	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	01/21/2008 18:07		James L Mertzt	1



Analysis Report

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Lancaster Laboratories Sample No. WW5257718

Group No. 1073482

209293-V33 Filtered Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

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Analysis Report

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Lancaster Laboratories Sample No. WW5257719

Group No. 1073482

209293-V39 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008 16:12 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

55039

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
00259	Mercury	7439-97-6	0.13	0.056	ug/l	1
01743	Aluminum	7429-90-5	446.	80.2	ug/l	1
06024	Antimony	7440-36-0	0.18	0.044	ug/l	1
06025	Arsenic	7440-38-2	N.D.	0.70	ug/l	1
06028	Cadmium	7440-43-9	N.D.	0.099	ug/l	1
06031	Chromium	7440-47-3	1.7	0.42	ug/l	1
06035	Lead	7439-92-1	5.4	0.047	ug/l	1
06039	Nickel	7440-02-0	1.2	0.43	ug/l	1
06041	Selenium	7782-49-2	N.D.	0.53	ug/l	1
07053	Copper	7440-50-8	5.6	2.2	ug/l	1
07066	Silver	7440-22-4	N.D.	1.6	ug/l	1
07072	Zinc	7440-66-6	38.4	8.1	ug/l	1
00206	Total Suspended Solids	n.a.	23,600.	3,000.	ug/l	1
08255	Total Cyanide (water)	57-12-5	N.D.	5.0	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	95.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
00177	OC Pesticides in Water					
00938	Endrin Ketone	53494-70-5	N.D.	0.00076	ug/l	1
01321	Kepone	143-50-0	N.D.	0.013	ug/l	1
01361	Alpha Chlordane	5103-71-9	N.D.	0.00057	ug/l	1
01362	Gamma Chlordane	5103-74-2	0.00062	0.00057	ug/l	1
01618	Endrin Aldehyde	7421-93-4	N.D.	0.0038	ug/l	1
01880	Alpha BHC	319-84-6	0.00096	0.00051	ug/l	1
01881	Beta BHC	319-85-7	N.D.	0.00076	ug/l	1
01882	Gamma BHC - Lindane	58-89-9	N.D.	0.00038	ug/l	1
01883	Delta BHC	319-86-8	0.00098	0.00057	ug/l	1
01884	Heptachlor	76-44-8	N.D.	0.00057	ug/l	1
01885	Aldrin	309-00-2	N.D.	0.00076	ug/l	1
01886	Heptachlor Epoxide	1024-57-3	N.D.	0.00057	ug/l	1
01887	p,p-DDE	72-55-9	N.D.	0.00095	ug/l	1
01888	p,p-DDD	72-54-8	N.D.	0.00076	ug/l	1
01889	p,p-DDT	50-29-3	0.00084	0.00076	ug/l	1

Lancaster Laboratories Sample No. WW5257719

Group No. 1073482

209293-V39 Grab Water Sample

Facility# 209293

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Account Number: 11964

Submitted: 01/16/2008 09:00

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Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

55039

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
01890	HCB	118-74-1	N.D.	0.00057	ug/l	1
01891	Mirex	2385-85-5	N.D.	0.0072	ug/l	1
01892	Methoxychlor	72-43-5	N.D.	0.0057	ug/l	1
01893	Dieldrin	60-57-1	N.D.	0.00076	ug/l	1
01894	Endrin	72-20-8	N.D.	0.00076	ug/l	1
01895	Telodrin	297-78-9	N.D.	0.00068	ug/l	1
01896	Chlordane	57-74-9	N.D.	0.013	ug/l	1
01897	Toxaphene	8001-35-2	N.D.	0.19	ug/l	1
01898	Endosulfan I	959-98-8	N.D.	0.00057	ug/l	1
01899	Endosulfan II	33213-65-9	0.0011	0.00076	ug/l	1
01900	Endosulfan Sulfate	1031-07-8	0.00079	0.00076	ug/l	1
07077	o,p-DDE	3424-82-6	N.D.	0.00076	ug/l	1
07078	o,p-DDD	53-19-0	N.D.	0.00076	ug/l	1
07079	o,p-DDT	789-02-6	0.00094	0.00076	ug/l	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this affect is attributed to the sample matrix and the data is reported.

The extraction blank was contaminated with delta-BHC. Delta-BHC was also detected in the sample. The sample was reextracted outside of hold time and delta-BHC was not found in the blank or sample. Results are reported from the original extract.

The LCS recovery for endrin is outside the QC limits.

Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

07394 PCBs in Water

07395	PCB-1016	12674-11-2	N.D.	0.019	ug/l	1
07397	PCB-1221	11104-28-2	N.D.	0.019	ug/l	1
07398	PCB-1232	11141-16-5	N.D.	0.038	ug/l	1
07399	PCB-1242	53469-21-9	N.D.	0.019	ug/l	1
07401	PCB-1248	12672-29-6	N.D.	0.019	ug/l	1
07403	PCB-1254	11097-69-1	N.D.	0.019	ug/l	1
07404	PCB-1260	11096-82-5	N.D.	0.019	ug/l	1
07405	PCB-1262	37324-23-5	N.D.	0.038	ug/l	1
07406	PCB-1268	11100-14-4	N.D.	0.019	ug/l	1

04678 TCL SW846 Semivolatiles/Waters

03952	Dimethylphthalate	131-11-3	N.D.	2.	ug/l	1
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Analysis Report

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Lancaster Laboratories Sample No. WW5257719

Group No. 1073482

209293-V39 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008 16:12 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

55039

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
03958	Diethylphthalate	84-66-2	N.D.	2.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	ug/l	1

08357 Selected SVOAs by 8270 SIM

08362	Naphthalene	91-20-3	0.028	0.0095	ug/l	1
08365	Acenaphthylene	208-96-8	0.014	0.0095	ug/l	1
08366	Acenaphthene	83-32-9	0.011	0.0095	ug/l	1
08368	Fluorene	86-73-7	0.035	0.0095	ug/l	1
08369	Phenanthrene	85-01-8	0.092	0.0095	ug/l	1
08370	Anthracene	120-12-7	0.010	0.0095	ug/l	1
08372	Fluoranthene	206-44-0	0.081	0.0095	ug/l	1
08373	Pyrene	129-00-0	0.098	0.0095	ug/l	1
08374	Benzo(a)anthracene	56-55-3	0.027	0.0095	ug/l	1
08375	Chrysene	218-01-9	0.053	0.0095	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	0.083	0.0095	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	0.036	0.0095	ug/l	1
08378	Benzo(a)pyrene	50-32-8	0.062	0.0095	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	0.052	0.0095	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	0.010	0.0095	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	0.079	0.0095	ug/l	1

Phenanthrene was detected in the method blank at a concentration of .018 ug/l.
The blank value was not subtracted from the analytical result. Sufficient
sample was unavailable to repeat the analysis.

05382 EPA SW846/8260 (water)

05384	Dichlorodifluoromethane	75-71-8	N.D.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1.	ug/l	1



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Group No. 1073482

San Ramon CA 94583

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1

08202 EPA SW 846/8260 - Water

02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
06302	Acetone	67-64-1	N.D.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.	2.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06888	Acrolein	107-02-8	N.D.	40.	ug/l	1
07583	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2.	ug/l	1

2-Chloroethyl vinyl ether is an acid labile compound and may not be



Analysis Report

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Lancaster Laboratories Sample No. WW5257719

Group No. 1073482

209293-V39 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008 16:12 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

55039

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
	recovered in an acid preserved sample.					

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	02/01/2008 15:58	Nelli S Markaryan	1
01743	Aluminum	SW-846 6010B	1	01/22/2008 03:52	Choon Y Tian	1
06024	Antimony	SW-846 6020	1	02/04/2008 19:56	David K Beck	1
06025	Arsenic	SW-846 6020	1	02/04/2008 19:56	David K Beck	1
06028	Cadmium	SW-846 6020	1	02/04/2008 19:56	David K Beck	1
06031	Chromium	SW-846 6020	1	02/04/2008 19:56	David K Beck	1
06035	Lead	SW-846 6020	1	02/04/2008 19:56	David K Beck	1
06039	Nickel	SW-846 6020	1	02/04/2008 19:56	David K Beck	1
06041	Selenium	SW-846 6020	1	02/04/2008 19:56	David K Beck	1
07053	Copper	SW-846 6010B	1	01/22/2008 03:52	Choon Y Tian	1
07066	Silver	SW-846 6010B	1	01/22/2008 03:52	Choon Y Tian	1
07072	Zinc	SW-846 6010B	1	01/22/2008 03:52	Choon Y Tian	1
00206	Total Suspended Solids	SM20 2540 D	1	01/17/2008 21:43	Geraldine C Smith	1
08255	Total Cyanide (water)	SW-846 9012A	1	01/25/2008 13:35	William L Hamaker Jr	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	01/22/2008 19:45	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	01/18/2008 11:28	Steven A Skiles	1
00177	OC Pesticides in Water	SW-846 8081A	1	01/21/2008 01:03	Lindsey K Lafferty	1
07394	PCBs in Water	SW-846 8082	1	01/23/2008 10:54	Jamie L Brillhart	1
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	01/21/2008 02:33	William T Parker	1
08357	Selected SVOAs by 8270 SIM	SW-846 8270C SIM	1	01/24/2008 16:21	Timothy J Trees	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	01/18/2008 00:31	Nicholas R Rossi	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	01/18/2008 00:31	Nicholas R Rossi	1
00813	BNA Water Extraction	SW-846 3510C	1	01/18/2008 10:40	Jessica Agosto	1
00813	BNA Water Extraction	SW-846 3510C	2	01/18/2008 12:00	Olivia Arosemena	1
00817	Water Sample Pest. Extraction	SW-846 3510C	1	01/18/2008 03:30	Sherry L Morrow	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/18/2008 11:28	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/18/2008 00:31	Nicholas R Rossi	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/21/2008 18:40	James L Mertz	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	01/21/2008 05:30	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW5257719

Group No. 1073482

209293-V39 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008 16:12 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

55039

05713	WW SW846 Hg Digest	SW-846 7470A	1	01/31/2008 16:00	Nelli S Markaryan	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	01/31/2008 19:55	James L Mertz	1
08256	Cyanide Water Distillation	SW-846 9012A	1	01/19/2008 03:15	Carolyn M Mastropietro	1



Analysis Report

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Lancaster Laboratories Sample No. WW5257720

Group No. 1073482

209293-V39 Filtered Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008 16:12 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
00259	Mercury	7439-97-6	0.093		0.056	1
01743	Aluminum	7429-90-5	N.D.		80.2	1
06024	Antimony	7440-36-0	0.11		0.044	1
06025	Arsenic	7440-38-2	N.D.		0.70	1
06028	Cadmium	7440-43-9	N.D.		0.099	1
06031	Chromium	7440-47-3	N.D.		0.42	1
06035	Lead	7439-92-1	0.081		0.047	1
06039	Nickel	7440-02-0	N.D.		0.43	1
06041	Selenium	7782-49-2	N.D.		0.53	1
07053	Copper	7440-50-8	N.D.		2.2	1
07066	Silver	7440-22-4	N.D.		1.6	1
07072	Zinc	7440-66-6	21.4		8.1	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00259	Mercury	SW-846 7470A	1	01/18/2008 08:30		Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	01/22/2008 03:56		Choon Y Tian	1
06024	Antimony	SW-846 6020	1	01/22/2008 21:18		David K Beck	1
06025	Arsenic	SW-846 6020	1	01/22/2008 21:18		David K Beck	1
06028	Cadmium	SW-846 6020	1	01/22/2008 21:18		David K Beck	1
06031	Chromium	SW-846 6020	1	01/22/2008 21:18		David K Beck	1
06035	Lead	SW-846 6020	1	01/22/2008 21:18		David K Beck	1
06039	Nickel	SW-846 6020	1	01/22/2008 21:18		David K Beck	1
06041	Selenium	SW-846 6020	1	01/22/2008 21:18		David K Beck	1
07053	Copper	SW-846 6010B	1	01/22/2008 03:56		Choon Y Tian	1
07066	Silver	SW-846 6010B	1	01/22/2008 03:56		Choon Y Tian	1
07072	Zinc	SW-846 6010B	1	01/22/2008 03:56		Choon Y Tian	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/21/2008 18:40		James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	01/17/2008 18:15		Nelli S Markaryan	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	01/21/2008 18:07		James L Mertz	1



Analysis Report

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Lancaster Laboratories Sample No. WW5257720

Group No. 1073482

209293-V39 Filtered Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008 16:12 by CSK

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583



Analysis Report

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Lancaster Laboratories Sample No. WW5257721

Group No. 1073482

Trip Blank Water Sample
Facility# 209293
5501 NW Front Ave - Portland, OR
Collected: 01/14/2008

Account Number: 11964

Submitted: 01/16/2008 09:00
Reported: 02/05/2008 at 07:42
Discard: 03/07/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

550TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
05382	EPA SW846/8260 (water)					
05384	Dichlorodifluoromethane	75-71-8	N.D.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW5257721

Group No. 1073482

Trip Blank Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/14/2008

Account Number: 11964

Submitted: 01/16/2008 09:00

Reported: 02/05/2008 at 07:42

Discard: 03/07/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

550TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
08202	EPA SW 846/8260 - Water					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
06302	Acetone	67-64-1	N.D.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.	2.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06888	Acrolein	107-02-8	N.D.	40.	ug/l	1
07583	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2.	ug/l	1

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	01/17/2008 03:36	Steven A Skiles	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	01/18/2008 13:16	Nicholas R Rossi	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	01/18/2008 13:16	Nicholas R Rossi	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/17/2008 03:36	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/18/2008 13:16	Nicholas R Rossi	1

Quality Control Summary

Client Name: Chevron

Group Number: 1073482

Reported: 02/05/08 at 07:42 AM

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08016A07B	Sample number(s): 5257719							
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	92	100	75-135	9	30
Batch number: 080170014A	Sample number(s): 5257717, 5257719							
PCB-1016	N.D.	0.020	ug/l	92	104	71-112	12	30
PCB-1221	N.D.	0.020	ug/l					
PCB-1232	N.D.	0.040	ug/l					
PCB-1242	N.D.	0.020	ug/l					
PCB-1248	N.D.	0.020	ug/l					
PCB-1254	N.D.	0.020	ug/l					
PCB-1260	N.D.	0.020	ug/l	132*	160*	51-124	19	30
PCB-1262	N.D.	0.040	ug/l					
PCB-1268	N.D.	0.020	ug/l					
Batch number: 080170021A	Sample number(s): 5257717, 5257719							
Endrin Ketone	N.D.	0.00080	ug/l	128	120	61-139	6	30
Kepona	N.D.	0.014	ug/l					
Alpha Chlordane	N.D.	0.00060	ug/l	110	105	77-127	5	30
Gamma Chlordane	N.D.	0.00060	ug/l	105	105	52-153	0	30
Endrin Aldehyde	N.D.	0.0040	ug/l	100	100	61-131	0	20
Alpha BHC	N.D.	0.00054	ug/l	115	105	71-123	9	30
Beta BHC	N.D.	0.00080	ug/l	125	120	79-130	4	30
Gamma BHC - Lindane	N.D.	0.00040	ug/l	115	100	71-124	14	30
Delta BHC	0.0010	0.00060	ug/l	120	105	72-132	13	30
Heptachlor	N.D.	0.00060	ug/l	105	95	65-123	10	30
Aldrin	N.D.	0.00080	ug/l	105	95	47-122	10	30
Heptachlor Epoxide	N.D.	0.00060	ug/l	110	100	73-141	10	30
p,p-DDE	N.D.	0.0010	ug/l	110	113	65-123	2	30
p,p-DDD	N.D.	0.00080	ug/l	93	110	65-125	17	30
p,p-DDT	N.D.	0.00080	ug/l	95	110	59-133	14	30
HCB	N.D.	0.00060	ug/l					
Mirex	N.D.	0.0076	ug/l					
Methoxychlor	N.D.	0.0060	ug/l	95	115	49-155	19	30
Dieldrin	N.D.	0.00080	ug/l	105	102	71-129	2	30
Endrin	N.D.	0.00080	ug/l	52*	95	69-120	58*	30
Telodrin	N.D.	0.00072	ug/l					
Chlordane	N.D.	0.014	ug/l					
Toxaphene	N.D.	0.20	ug/l					
Endosulfan I	N.D.	0.00060	ug/l	100	95	77-120	5	30
Endosulfan II	N.D.	0.00080	ug/l	105	108	75-124	2	30
Endosulfan Sulfate	N.D.	0.00080	ug/l	108	108	69-130	0	30
o,p-DDE	N.D.	0.00080	ug/l					
o,p-DDD	N.D.	0.00080	ug/l					
o,p-DDT	N.D.	0.00080	ug/l					
Batch number: 08017020601A	Sample number(s): 5257717, 5257719							
Total Suspended Solids	N.D.	3,000.	ug/l	87		56-128		

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron

Group Number: 1073482

Reported: 02/05/08 at 07:42 AM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 080175713002	Sample number(s): 5257718, 5257720							
Mercury	N.D.	0.056	ug/l	104		80-120		
Batch number: 08017A07A	Sample number(s): 5257717, 5257721							
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	93	98	75-135	5	30
Batch number: 08017WAD026	Sample number(s): 5257717, 5257719							
Naphthalene	N.D.	0.010	ug/l	86	91	68-120	5	30
Acenaphthylene	N.D.	0.010	ug/l	77	85	65-113	10	30
Acenaphthene	N.D.	0.010	ug/l	90	93	71-122	4	30
Fluorene	N.D.	0.010	ug/l	94	97	71-124	4	30
Phenanthrene	0.018	0.010	ug/l	97	98	70-125	1	30
Anthracene	N.D.	0.010	ug/l	78	84	64-126	7	30
Fluoranthene	N.D.	0.010	ug/l	97	99	69-131	2	30
Pyrene	N.D.	0.010	ug/l	94	98	69-130	4	30
Benzo(a)anthracene	N.D.	0.010	ug/l	90	93	68-129	3	30
Chrysene	N.D.	0.010	ug/l	96	101	69-128	5	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	105	106	56-138	1	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	105	108	62-135	3	30
Benzo(a)pyrene	N.D.	0.010	ug/l	80	85	61-124	6	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	105	107	62-129	1	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	106	107	39-130	1	30
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	105	107	64-126	2	30
Batch number: 08017WAF026	Sample number(s): 5257717, 5257719							
Dimethylphthalate	N.D.	2.	ug/l	83		69-106		
Diethylphthalate	N.D.	2.	ug/l	99		79-108		
Di-n-butylphthalate	2.	2.	ug/l	102		77-114		
Butylbenzylphthalate	N.D.	2.	ug/l	98		63-120		
bis(2-Ethylhexyl)phthalate	N.D.	2.	ug/l	102		62-126		
Di-n-octylphthalate	N.D.	2.	ug/l	100		71-125		
Batch number: 080190023A	Sample number(s): 5257717, 5257719							
Diesel Range Organics	N.D.	80.	ug/l	85	88	61-106	3	20
Heavy Range Organics	N.D.	100.	ug/l					
Batch number: 08019117101A	Sample number(s): 5257717, 5257719							
Total Cyanide (water)	N.D.	5.0	ug/l	99		90-110		
Batch number: 080211848002	Sample number(s): 5257717-5257720							
Aluminum	N.D.	80.2	ug/l	106		90-112		
Copper	N.D.	2.2	ug/l	105		90-112		
Silver	N.D.	1.6	ug/l	101		90-118		
Zinc	N.D.	8.1	ug/l	103		90-111		
Batch number: 080216050001A	Sample number(s): 5257718, 5257720							
Antimony	N.D.	0.044	ug/l	99		87-110		
Arsenic	N.D.	0.70	ug/l	98		86-111		
Cadmium	N.D.	0.099	ug/l	102		90-114		
Chromium	N.D.	0.42	ug/l	103		90-118		
Lead	N.D.	0.047	ug/l	104		90-115		
Nickel	N.D.	0.43	ug/l	106		90-113		
Selenium	N.D.	0.53	ug/l	100		85-114		

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron

Group Number: 1073482

Reported: 02/05/08 at 07:42 AM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 080315713002	Sample number(s): 5257717, 5257719							
Mercury	0.14	0.056	ug/l	103		80-120		
Batch number: 080316050001A	Sample number(s): 5257717, 5257719							
Antimony	N.D.	0.044	ug/l	98		87-110		
Arsenic	N.D.	0.70	ug/l	94		86-111		
Cadmium	N.D.	0.099	ug/l	98		90-114		
Chromium	N.D.	0.42	ug/l	105		90-118		
Lead	N.D.	0.047	ug/l	101		90-115		
Nickel	N.D.	0.43	ug/l	103		90-113		
Selenium	N.D.	0.53	ug/l	95		85-114		
Batch number: Y080172AA	Sample number(s): 5257717, 5257719							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	101		73-119		
Dichlorodifluoromethane	N.D.	2.	ug/l	89		33-125		
Chloromethane	N.D.	1.	ug/l	105		47-122		
Vinyl Chloride	N.D.	1.	ug/l	91		54-123		
Bromomethane	N.D.	1.	ug/l	94		49-117		
Chloroethane	N.D.	1.	ug/l	93		54-117		
Trichlorofluoromethane	N.D.	2.	ug/l	86		59-128		
Methylene Chloride	N.D.	2.	ug/l	99		85-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	103		83-117		
1,1-Dichloroethane	N.D.	1.	ug/l	106		83-127		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	103		84-117		
Chloroform	N.D.	0.8	ug/l	103		77-125		
Bromochloromethane	N.D.	1.	ug/l	106		83-121		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	102		83-127		
Carbon Tetrachloride	N.D.	1.	ug/l	98		77-130		
Benzene	N.D.	0.5	ug/l	103		78-119		
1,2-Dichloroethane	N.D.	1.	ug/l	106		69-135		
Trichloroethene	N.D.	1.	ug/l	102		87-117		
1,2-Dichloropropane	N.D.	1.	ug/l	104		80-117		
Dibromomethane	N.D.	1.	ug/l	105		87-117		
Bromodichloromethane	N.D.	1.	ug/l	106		83-121		
Toluene	N.D.	0.7	ug/l	97		85-115		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	98		86-113		
Tetrachloroethene	N.D.	0.8	ug/l	92		76-118		
Dibromochloromethane	N.D.	1.	ug/l	97		78-119		
1,2-Dibromoethane	N.D.	1.	ug/l	94		81-114		
Chlorobenzene	N.D.	0.8	ug/l	95		85-115		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	93		83-114		
Ethylbenzene	N.D.	0.8	ug/l	96		82-119		
m+p-Xylene	N.D.	0.8	ug/l	94		83-113		
o-Xylene	N.D.	0.8	ug/l	94		83-113		
Styrene	N.D.	1.	ug/l	91		82-111		
Bromoform	N.D.	1.	ug/l	85		69-118		
Isopropylbenzene	N.D.	1.	ug/l	93		80-113		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	94		72-119		
1,2,3-Trichloropropane	N.D.	1.	ug/l	94		78-117		
Acetone	N.D.	6.	ug/l	92		40-200		
Carbon Disulfide	N.D.	1.	ug/l	93		69-119		
2-Butanone	N.D.	3.	ug/l	99		52-163		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	93		79-114		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	98		78-114		
4-Methyl-2-pentanone	N.D.	3.	ug/l	97		70-130		

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron

Group Number: 1073482

Reported: 02/05/08 at 07:42 AM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
2-Hexanone	N.D.	3.	ug/l	91		61-140		
Xylene (Total)	N.D.	0.8	ug/l	94		83-113		
Methyl Iodide	N.D.	1.	ug/l	93		70-116		
Acrylonitrile	N.D.	4.	ug/l	95		67-128		
Vinyl Acetate	N.D.	2.	ug/l	146*		71-141		
trans-1,4-Dichloro-2-butene	N.D.	15.	ug/l	90		49-135		
Acrolein	N.D.	40.	ug/l	84		26-151		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	97		66-125		
Batch number: Y080181AA Sample number(s): 5257721								
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	103		73-119		
Dichlorodifluoromethane	N.D.	2.	ug/l	86		33-125		
Chloromethane	N.D.	1.	ug/l	101		47-122		
Vinyl Chloride	N.D.	1.	ug/l	90		54-123		
Bromomethane	N.D.	1.	ug/l	95		49-117		
Chloroethane	N.D.	1.	ug/l	93		54-117		
Trichlorofluoromethane	N.D.	2.	ug/l	87		59-128		
Methylene Chloride	N.D.	2.	ug/l	104		85-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	109		83-117		
1,1-Dichloroethane	N.D.	1.	ug/l	106		83-127		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	103		84-117		
Chloroform	N.D.	0.8	ug/l	106		77-125		
Bromochloromethane	N.D.	1.	ug/l	103		83-121		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	105		83-127		
Carbon Tetrachloride	N.D.	1.	ug/l	99		77-130		
Benzene	N.D.	0.5	ug/l	107		78-119		
1,2-Dichloroethane	N.D.	1.	ug/l	108		69-135		
Trichloroethene	N.D.	1.	ug/l	107		87-117		
1,2-Dichloropropane	N.D.	1.	ug/l	105		80-117		
Dibromomethane	N.D.	1.	ug/l	107		87-117		
Bromodichloromethane	N.D.	1.	ug/l	107		83-121		
Toluene	N.D.	0.7	ug/l	95		85-115		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	96		86-113		
Tetrachloroethene	N.D.	0.8	ug/l	93		76-118		
Dibromochloromethane	N.D.	1.	ug/l	100		78-119		
1,2-Dibromoethane	N.D.	1.	ug/l	92		81-114		
Chlorobenzene	N.D.	0.8	ug/l	95		85-115		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	93		83-114		
Ethylbenzene	N.D.	0.8	ug/l	94		82-119		
m+p-Xylene	N.D.	0.8	ug/l	94		83-113		
o-Xylene	N.D.	0.8	ug/l	94		83-113		
Styrene	N.D.	1.	ug/l	92		82-111		
Bromoform	N.D.	1.	ug/l	88		69-118		
Isopropylbenzene	N.D.	1.	ug/l	92		80-113		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	92		72-119		
1,2,3-Trichloropropane	N.D.	1.	ug/l	93		78-117		
Acetone	N.D.	6.	ug/l	96		40-200		
Carbon Disulfide	N.D.	1.	ug/l	96		69-119		
2-Butanone	N.D.	3.	ug/l	101		52-163		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	90		79-114		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	98		78-114		
4-Methyl-2-pentanone	N.D.	3.	ug/l	99		70-130		
2-Hexanone	N.D.	3.	ug/l	92		61-140		
Xylene (Total)	N.D.	0.8	ug/l	94		83-113		
Methyl Iodide	N.D.	1.	ug/l	97		70-116		

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 02/05/08 at 07:42 AM

Group Number: 1073482

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCS %REC	LCS/LCSD Limits	RPD	RPD Max
Acrylonitrile	N.D.	4.	ug/l	97		67-128		
Vinyl Acetate	N.D.	2.	ug/l	147*	145*	71-141	1	30
trans-1,4-Dichloro-2-butene	N.D.	15.	ug/l	86		49-135		
Acrolein	N.D.	40.	ug/l	80		26-151		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	95		66-125		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 08016A07B TPH by NWTPH-Gx waters	Sample number(s): 5257719 UNSPK: P255451 106 63-154								
Batch number: 08017020601A Total Suspended Solids	Sample number(s): 5257717, 5257719 BKG: P257207 956,000. 940,000. 2 20								
Batch number: 080175713002 Mercury	Sample number(s): 5257718, 5257720 UNSPK: P258144 BKG: P258144 99 99 80-120 0 20 0.075 0.060 22* (1) 20								
Batch number: 08017WAF026 Dimethylphthalate	Sample number(s): 5257717, 5257719 UNSPK: P257048 84 92 8-143 5 30								
Diethylphthalate	96	97	56-120	3	30				
Di-n-butylphthalate	101	102	62-111	2	30				
Butylbenzylphthalate	98	102	60-117	0	30				
bis(2-Ethylhexyl)phthalate	99	103	61-118	0	30				
Di-n-octylphthalate	100	101	68-124	3	30				
Batch number: 08019117101A Total Cyanide (water)	Sample number(s): 5257717, 5257719 UNSPK: P257705 BKG: P257705 102 83-111 N.D. N.D. 0 (1) 20								
Batch number: 080211848002 Aluminum	Sample number(s): 5257717-5257720 UNSPK: P258623 BKG: P258623 115 113 75-125 2 20 N.D. N.D. 0 (1) 20								
Copper	112	110	86-122	1	20	N.D.	N.D.	0 (1)	20
Silver	115	112	75-125	3	20	2.0	N.D.	200* (1)	20
Zinc	111	110	75-125	1	20	N.D.	N.D.	0 (1)	20
Batch number: 080216050001A Antimony	Sample number(s): 5257718, 5257720 UNSPK: P257470 BKG: P257470 97 99 75-125 1 20 0.15 0.098 44* (1) 20								
Arsenic	96	97	75-125	0	20	0.75	N.D.	200* (1)	20
Cadmium	100	100	87-110	0	20	N.D.	N.D.	0 (1)	20
Chromium	106	110	83-116	4	20	N.D.	N.D.	0 (1)	20
Lead	103	104	75-125	1	20	4.9	4.9	1 (1)	20
Nickel	105	105	85-117	0	20	3.7	3.7	2 (1)	20
Selenium	100	98	75-125	2	20	N.D.	N.D.	0 (1)	20
Batch number: 080315713002 Mercury	Sample number(s): 5257717, 5257719 UNSPK: P257707 BKG: P257707 101 102 80-120 1 20 0.13 0.12 11 (1) 20								
Batch number: 080316050001A Antimony	Sample number(s): 5257717, 5257719 UNSPK: P257703 BKG: P257703 90 90 75-125 1 20 0.22 0.24 10 (1) 20								

*- Outside of specification

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Quality Control Summary

Client Name: Chevron

Group Number: 1073482

Reported: 02/05/08 at 07:42 AM

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Arsenic	102	103	75-125	1	20	N.D.	N.D.	0 (1)	20
Cadmium	101	104	87-110	4	20	0.20	0.26	24* (1)	20
Chromium	108	103	83-116	5	20	2.9	3.6	20 (1)	20
Lead	106	110	75-125	2	20	10.3	11.1	7	20
Nickel	106	106	85-117	0	20	2.9	3.4	17 (1)	20
Selenium	98	103	75-125	5	20	N.D.	N.D.	0 (1)	20
Batch number: Y080172AA Sample number(s): 5257717, 5257719 UNSPK: P257383									
Methyl Tertiary Butyl Ether	103	101	69-127	2	30				
Dichlorodifluoromethane	118	120	41-149	2	30				
Chloromethane	106	107	47-133	1	30				
Vinyl Chloride	105	104	55-130	1	30				
Bromomethane	102	102	52-129	0	30				
Chloroethane	101	98	57-130	2	30				
Trichlorofluoromethane	107	106	67-150	1	30				
Methylene Chloride	112	109	79-133	2	30				
trans-1,2-Dichloroethene	112	109	82-133	3	30				
1,1-Dichloroethane	112	109	85-135	3	30				
cis-1,2-Dichloroethene	109	106	83-126	2	30				
Chloroform	111	108	83-139	3	30				
Bromochloromethane	106	102	82-129	4	30				
1,1,1-Trichloroethane	113	110	81-142	3	30				
Carbon Tetrachloride	113	108	82-149	4	30				
Benzene	-57 (2)	-162 (2)	83-128	2	30				
1,2-Dichloroethane	264*	262*	70-143	1	30				
Trichloroethene	113	111	83-136	2	30				
1,2-Dichloropropane	107	110	83-129	2	30				
Dibromomethane	110	106	82-128	4	30				
Bromodichloromethane	111	108	80-137	3	30				
Toluene	103	106	83-127	2	30				
1,1,2-Trichloroethane	102	103	77-125	1	30				
Tetrachloroethene	106	102	78-133	3	30				
Dibromochloromethane	103	102	82-119	1	30				
1,2-Dibromoethane	98	97	78-120	1	30				
Chlorobenzene	103	102	83-120	1	30				
1,1,1,2-Tetrachloroethane	98	93	83-119	5	30				
Ethylbenzene	105	108	82-129	2	30				
m+p-Xylene	104	104	82-130	0	30				
o-Xylene	101	99	82-130	1	30				
Styrene	100	99	69-131	1	30				
Bromoform	92	89	64-119	3	30				
Isopropylbenzene	102	101	81-130	1	30				
1,1,2,2-Tetrachloroethane	96	98	73-121	2	30				
1,2,3-Trichloropropane	95	99	73-125	4	30				
Acetone	80	85	48-143	7	30				
Carbon Disulfide	102	100	74-135	1	30				
2-Butanone	96	96	57-137	0	30				
trans-1,3-Dichloropropene	94	96	77-123	2	30				
cis-1,3-Dichloropropene	103	101	80-126	2	30				
4-Methyl-2-pentanone	97	96	68-133	0	30				
2-Hexanone	91	93	60-135	1	30				
Xylene (Total)	103	102	82-130	0	30				

*- Outside of specification

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Quality Control Summary

Client Name: Chevron

Group Number: 1073482

Reported: 02/05/08 at 07:42 AM

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Methyl Iodide	101	98	72-128	3	30				
Acrylonitrile	95	93	63-132	2	30				
Vinyl Acetate	159*	156	58-158	2	30				
trans-1,4-Dichloro-2-butene	91	94	44-138	3	30				
Acrolein	79	79	28-146	0	30				
2-Chloroethyl Vinyl Ether	97	96	1-156	1	30				
Batch number: Y080181AA Sample number(s): 5257721 UNSPK: P258387									
Methyl Tertiary Butyl Ether	105	107	69-127	2	30				
Dichlorodifluoromethane	116	126	41-149	8	30				
Chloromethane	109	112	47-133	3	30				
Vinyl Chloride	107	108	55-130	2	30				
Bromomethane	102	105	52-129	3	30				
Chloroethane	105	106	57-130	1	30				
Trichlorofluoromethane	112	113	67-150	1	30				
Methylene Chloride	117	116	79-133	1	30				
trans-1,2-Dichloroethene	116	116	82-133	0	30				
1,1-Dichloroethane	116	119	85-135	2	30				
cis-1,2-Dichloroethene	113	116	83-126	2	30				
Chloroform	113	116	83-139	2	30				
Bromochloromethane	108	110	82-129	2	30				
1,1,1-Trichloroethane	117	116	81-142	1	30				
Carbon Tetrachloride	117	116	82-149	1	30				
Benzene	114	115	83-128	1	30				
1,2-Dichloroethane	112	113	70-143	1	30				
Trichloroethene	112	117	83-136	3	30				
1,2-Dichloropropane	111	112	83-129	1	30				
Dibromomethane	111	114	82-128	3	30				
Bromodichloromethane	111	113	80-137	2	30				
Toluene	104	104	83-127	0	30				
1,1,2-Trichloroethane	101	100	77-125	1	30				
Tetrachloroethene	105	101	78-133	4	30				
Dibromochloromethane	104	104	82-119	1	30				
1,2-Dibromoethane	97	98	78-120	1	30				
Chlorobenzene	100	101	83-120	1	30				
1,1,1,2-Tetrachloroethane	99	99	83-119	1	30				
Ethylbenzene	102	103	82-129	1	30				
m+p-Xylene	102	102	82-130	0	30				
o-Xylene	101	102	82-130	1	30				
Styrene	95	96	69-131	1	30				
Bromoform	88	89	64-119	2	30				
Isopropylbenzene	100	101	81-130	1	30				
1,1,2,2-Tetrachloroethane	93	93	73-121	1	30				
1,2,3-Trichloropropane	93	95	73-125	3	30				
Acetone	95	88	48-143	8	30				
Carbon Disulfide	105	107	74-135	2	30				
2-Butanone	99	101	57-137	2	30				
trans-1,3-Dichloropropene	94	95	77-123	1	30				
cis-1,3-Dichloropropene	103	105	80-126	2	30				
4-Methyl-2-pentanone	100	101	68-133	1	30				
2-Hexanone	90	92	60-135	2	30				
Xylene (Total)	101	102	82-130	1	30				
Methyl Iodide	102	103	72-128	1	30				

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 02/05/08 at 07:42 AM

Group Number: 1073482

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acrylonitrile	98	99	63-132	0	30				
trans-1,4-Dichloro-2-butene	85	86	44-138	1	30				
Acrolein	77	78	28-146	1	30				
2-Chloroethyl Vinyl Ether	0*	0*	1-156	0	30				

Surrogate Quality Control

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

Analysis Name: TPH by NWTPH-Gx waters
Batch number: 08016A07B
Trifluorotoluene-F

5257719	100
Blank	101
LCS	111
LCSD	112
MS	112

Limits: 63-135

Analysis Name: PCBs in Water
Batch number: 080170014A
Tetrachloro-m-xylene Decachlorobiphenyl

5257717	102	144
5257719	99	145
Blank	91	109
LCS	99	112
LCSD	103	128

Limits: 30-150 30-150

Analysis Name: OC Pesticides in Water
Batch number: 080170021A
Tetrachloro-m-xylene Decachlorobiphenyl

5257717	59	64
5257719	69	79
Blank	90	105
LCS	107	85
LCSD	95	116

Limits: 55-130 44-146

Analysis Name: TPH by NWTPH-Gx waters
Batch number: 08017A07A
Trifluorotoluene-F

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 02/05/08 at 07:42 AM

Group Number: 1073482

Surrogate Quality Control

5257717 106
5257721 106
Blank 105
LCS 113
LCSD 114

Limits: 63-135

Analysis Name: Selected SVOAs by 8270 SIM

Batch number: 08017WAD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5257717	107	60	78
5257719	106	107	107
Blank	107	103	110
LCS	90	102	107
LCSD	106	103	111

Limits: 50-153

52-132

58-141

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 08017WAF026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5
5257717	49	32	89	82
5257719	52	34	82	86
Blank	57	39	93	85
LCS	64	43	98	91
MS	4*	3*	12*	90
MSD	4*	6*	12*	90

Limits: 10-103

10-82

20-159

51-123

	2-Fluorobiphenyl	Terphenyl-d14
5257717	83	74
5257719	84	75
Blank	83	77
LCS	90	80
MS	88	77
MSD	89	79

Limits: 63-118

52-151

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel

Batch number: 080190023A

Orthoterphenyl

5257717	197*
5257719	103
Blank	96
LCS	114
LCSD	118

Limits: 50-150

Analysis Name: EPA SW846/8260 (water)

Batch number: Y080172AA

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron

Group Number: 1073482

Reported: 02/05/08 at 07:42 AM

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5257717	93	92	89	87
5257719	94	91	90	87
Blank	93	92	91	89
LCS	92	88	91	91
MS	92	90	92	90
MSD	90	88	91	90
Limits:	80-116	77-113	80-113	78-113

Analysis Name: EPA SW846/8260 (water)

Batch number: Y080181AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5257721	95	91	91	90
Blank	96	94	90	91
LCS	94	92	90	91
MS	95	100	91	91
MSD	94	93	90	92
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

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

FedEx # 3098-7946-5

11964

Sample #: 5257717-721

220786

SCR#: 49550

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

3468 Rev. 8/6/01

Where quality is a science.

49079

☒ Yes ☐ No

Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA <0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2691 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1075098. Samples arrived at the laboratory on Tuesday, January 29, 2008. The PO# for this group is 0015014293 and the release number is ROUSE.

Client Description

209293_V39 Grab Water Sample
209293_V39 Filtered Grab Water Sample
209293_V33 Grab Water Sample
209293_V33 Filtered Grab Water Sample
Trip Blank Water Sample

Lancaster Labs Number

5266525
5266526
5266527
5266528
5266529

ELECTRONIC Arcadis US, Inc.
COPY TO
ELECTRONIC ARCADIS U.S., Inc.
COPY TO
ELECTRONIC BB&L
COPY TO

Attn: Brooke Bonkoski

Attn: Colleen Martin

Attn: Grant Sprick



Analysis Report

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Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Michele J. Smith".

Michele J. Smith
Group Leader



Analysis Report

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Page 1 of 5

Lancaster Laboratories Sample No. WW5266525

Group No. 1075098

209293_V39 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/26/2008 12:40 by BB

Account Number: 11964

Submitted: 01/29/2008 09:45

Reported: 02/15/2008 at 10:22

Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FRO39

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
00259	Mercury	7439-97-6	0.16	0.056	ug/l	1
01743	Aluminum	7429-90-5	N.D.	80.2	ug/l	1
06024	Antimony	7440-36-0	0.42	0.044	ug/l	1
06025	Arsenic	7440-38-2	N.D.	0.70	ug/l	1
06028	Cadmium	7440-43-9	N.D.	0.099	ug/l	1
06031	Chromium	7440-47-3	0.77	0.42	ug/l	1
06035	Lead	7439-92-1	0.71	0.047	ug/l	1
06039	Nickel	7440-02-0	1.3	0.43	ug/l	1
06041	Selenium	7782-49-2	N.D.	0.53	ug/l	1
07053	Copper	7440-50-8	N.D.	2.2	ug/l	1
07066	Silver	7440-22-4	N.D.	1.6	ug/l	1
07072	Zinc	7440-66-6	41.0	8.1	ug/l	1
00206	Total Suspended Solids	n.a.	10,400.	3,000.	ug/l	1
08255	Total Cyanide (water)	57-12-5	N.D.	5.0	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	81.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	96.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
00177	OC Pesticides in Water					
00938	Endrin Ketone	53494-70-5	N.D.	0.00076	ug/l	1
01321	Kepone	143-50-0	N.D.	0.013	ug/l	1
01361	Alpha Chlordane	5103-71-9	0.0024	0.00057	ug/l	1
01362	Gamma Chlordane	5103-74-2	N.D.	0.00057	ug/l	1
01618	Endrin Aldehyde	7421-93-4	N.D.	0.0038	ug/l	1
01880	Alpha BHC	319-84-6	N.D.	0.00052	ug/l	1
01881	Beta BHC	319-85-7	N.D.	0.00076	ug/l	1
01882	Gamma BHC - Lindane	58-89-9	N.D.	0.00038	ug/l	1
01883	Delta BHC	319-86-8	0.00068	0.00057	ug/l	1
01884	Heptachlor	76-44-8	N.D.	0.00057	ug/l	1
01885	Aldrin	309-00-2	N.D.	0.00076	ug/l	1
01886	Heptachlor Epoxide	1024-57-3	N.D.	0.00057	ug/l	1
01887	p,p-DDE	72-55-9	N.D.	0.00095	ug/l	1
01888	p,p-DDD	72-54-8	N.D.	0.00076	ug/l	1
01889	p,p-DDT	50-29-3	N.D.	0.00076	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW5266525

Group No. 1075098

209293_V39 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/26/2008 12:40 by BB

Account Number: 11964

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Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FRO39

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method Detection Limit		
01890	HCB	118-74-1	N.D.	0.00057	ug/l	1
01891	Mirex	2385-85-5	N.D.	0.0072	ug/l	1
01892	Methoxychlor	72-43-5	N.D.	0.0057	ug/l	1
01893	Dieldrin	60-57-1	N.D.	0.00076	ug/l	1
01894	Endrin	72-20-8	N.D.	0.00076	ug/l	1
01895	Telodrin	297-78-9	N.D.	0.00069	ug/l	1
01896	Chlordane	57-74-9	N.D.	0.013	ug/l	1
01897	Toxaphene	8001-35-2	N.D.	0.19	ug/l	1
01898	Endosulfan I	959-98-8	N.D.	0.00057	ug/l	1
01899	Endosulfan II	33213-65-9	N.D.	0.00076	ug/l	1
01900	Endosulfan Sulfate	1031-07-8	N.D.	0.00076	ug/l	1
07077	o,p-DDE	3424-82-6	N.D.	0.00076	ug/l	1
07078	o,p-DDD	53-19-0	N.D.	0.00076	ug/l	1
07079	o,p-DDT	789-02-6	N.D.	0.00076	ug/l	1
07394	PCBs in Water					
07395	PCB-1016	12674-11-2	N.D.	0.019	ug/l	1
07397	PCB-1221	11104-28-2	N.D.	0.019	ug/l	1
07398	PCB-1232	11141-16-5	N.D.	0.038	ug/l	1
07399	PCB-1242	53469-21-9	N.D.	0.019	ug/l	1
07401	PCB-1248	12672-29-6	N.D.	0.019	ug/l	1
07403	PCB-1254	11097-69-1	N.D.	0.019	ug/l	1
07404	PCB-1260	11096-82-5	N.D.	0.019	ug/l	1
07405	PCB-1262	37324-23-5	N.D.	0.038	ug/l	1
07406	PCB-1268	11100-14-4	N.D.	0.019	ug/l	1
04678	TCL SW846 Semivolatiles/Waters					
03952	Dimethylphthalate	131-11-3	N.D.	2.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	ug/l	1
08357	Selected SVOAs by 8270 SIM					
08362	Naphthalene	91-20-3	N.D.	0.0095	ug/l	1
08365	Acenaphthylene	208-96-8	N.D.	0.0095	ug/l	1
08366	Acenaphthene	83-32-9	N.D.	0.0095	ug/l	1
08368	Fluorene	86-73-7	N.D.	0.0095	ug/l	1

Lancaster Laboratories Sample No. WW5266525

Group No. 1075098

209293_V39 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/26/2008 12:40 by BB

Account Number: 11964

Submitted: 01/29/2008 09:45

Reported: 02/15/2008 at 10:22

Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FRO39

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08369	Phenanthrene	85-01-8	N.D.		0.0095	ug/l	1
08370	Anthracene	120-12-7	N.D.		0.0095	ug/l	1
08372	Fluoranthene	206-44-0	0.010		0.0095	ug/l	1
08373	Pyrene	129-00-0	0.025		0.0095	ug/l	1
08374	Benzo(a)anthracene	56-55-3	N.D.		0.0095	ug/l	1
08375	Chrysene	218-01-9	0.011		0.0095	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	0.012		0.0095	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	N.D.		0.0095	ug/l	1
08378	Benzo(a)pyrene	50-32-8	0.012		0.0095	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.0095	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	N.D.		0.0095	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	0.012		0.0095	ug/l	1
05382 EPA SW846/8260 (water)							
05384	Dichlorodifluoromethane	75-71-8	N.D.	2.		ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.		ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.		ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.		ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.		ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.		ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.		ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8		ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.		ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8		ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8		ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1.		ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8		ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.		ug/l	1
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5		ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.		ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.		ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.		ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8		ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8		ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.		ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5		ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8		ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.		ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW5266525

Group No. 1075098

209293_V39 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/26/2008 12:40 by BB

Account Number: 11964

Submitted: 01/29/2008 09:45

Reported: 02/15/2008 at 10:22

Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FRO39

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.5	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.5	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoforn	75-25-2	N.D.	1.	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
08202	EPA SW 846/8260 - Water					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
06302	Acetone	67-64-1	N.D.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.	2.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06888	Acrolein	107-02-8	N.D.	40.	ug/l	1
07583	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2.	ug/l	1

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
00259	Mercury	SW-846 7470A	1	01/31/2008 14:15	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	01/31/2008 14:03	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	02/01/2008 09:28	James R Williams II	1



Analysis Report

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Lancaster Laboratories Sample No. WW5266525

Group No. 1075098

209293 V39 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/26/2008 12:40 by BB

Account Number: 11964

Submitted: 01/29/2008 09:45

Reported: 02/15/2008 at 10:22

Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FRO39							
06025	Arsenic	SW-846 6020	1	02/01/2008 09:28	James R Williams II	1	
06028	Cadmium	SW-846 6020	1	02/01/2008 09:28	James R Williams II	1	
06031	Chromium	SW-846 6020	1	02/01/2008 09:28	James R Williams II	1	
06035	Lead	SW-846 6020	1	02/01/2008 09:28	James R Williams II	1	
06039	Nickel	SW-846 6020	1	02/01/2008 09:28	James R Williams II	1	
06041	Selenium	SW-846 6020	1	02/01/2008 09:28	James R Williams II	1	
07053	Copper	SW-846 6010B	1	01/31/2008 14:03	Joanne M Gates	1	
07066	Silver	SW-846 6010B	1	01/31/2008 14:03	Joanne M Gates	1	
07072	Zinc	SW-846 6010B	1	01/31/2008 14:03	Joanne M Gates	1	
00206	Total Suspended Solids	SM20 2540 D	1	01/29/2008 19:17	Geraldine C Smith	1	
08255	Total Cyanide (water)	SW-846 9012A	1	02/05/2008 11:02	William L Hamaker Jr	1	
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	02/05/2008 18:10	Heather E Williams	1	
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	01/30/2008 02:07	Steven A Skiles	1	
00177	OC Pesticides in Water	SW-846 8081A	1	02/01/2008 16:16	Mark E McNulty	1	
07394	PCBs in Water	SW-846 8082	1	01/31/2008 12:36	Jamie L Brillhart	1	
04678	TCL SW846	SW-846 8270C	1	02/01/2008 04:25	Linda M Hartenstine	1	
08357	Semivolatiles/Waters						
08357	Selected SVOAs by 8270 SIM	SW-846 8270C SIM	1	01/31/2008 04:24	Linda M Hartenstine	1	
05382	EPA SW846/8260 (water)	SW-846 8260B	1	02/07/2008 15:23	Nicholas R Rossi	1	
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	02/07/2008 15:23	Nicholas R Rossi	1	
00813	BNA Water Extraction	SW-846 3510C	1	01/30/2008 15:00	Mariam G Attalla	1	
00813	BNA Water Extraction	SW-846 3510C	2	01/30/2008 16:45	Kevin P Love	1	
00817	Water Sample Pest. Extraction	SW-846 3510C	1	01/31/2008 02:30	Roman Kuropatkin	1	
00817	Water Sample Pest. Extraction	SW-846 3510C	2	01/31/2008 17:15	JoElla L Rice	1	
01146	GC VOA Water Prep	SW-846 5030B	1	01/30/2008 02:07	Steven A Skiles	1	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/07/2008 15:23	Nicholas R Rossi	1	
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/29/2008 22:15	Helen L Schaeffer	1	
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	02/01/2008 12:00	Mariam G Attalla	1	
05713	WW SW846 Hg Digest	SW-846 7470A	1	01/30/2008 18:45	Nelli S Markaryan	1	
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	01/30/2008 23:10	Helen L Schaeffer	1	
08256	Cyanide Water Distillation	SW-846 9012A	2	02/02/2008 01:30	Carolyn M Mastropietro	1	



Analysis Report

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Lancaster Laboratories Sample No. WW5266526

Group No. 1075098

209293_V39 Filtered Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/26/2008 12:40 by BB

Account Number: 11964

Submitted: 01/29/2008 09:45

Reported: 02/15/2008 at 10:22

Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
00259	Mercury	7439-97-6	0.081	0.056	ug/l	1
01743	Aluminum	7429-90-5	N.D.	80.2	ug/l	1
06024	Antimony	7440-36-0	0.37	0.044	ug/l	1
06025	Arsenic	7440-38-2	N.D.	0.70	ug/l	1
06028	Cadmium	7440-43-9	N.D.	0.099	ug/l	1
06031	Chromium	7440-47-3	N.D.	0.42	ug/l	1
06035	Lead	7439-92-1	0.083	0.047	ug/l	1
06039	Nickel	7440-02-0	1.1	0.43	ug/l	1
06041	Selenium	7782-49-2	N.D.	0.53	ug/l	1
07053	Copper	7440-50-8	N.D.	2.2	ug/l	1
07066	Silver	7440-22-4	N.D.	1.6	ug/l	1
07072	Zinc	7440-66-6	39.5	8.1	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00259	Mercury	SW-846 7470A	1	01/31/2008 14:39		Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	01/31/2008 14:08		Joanne M Gates	1
06024	Antimony	SW-846 6020	1	02/01/2008 09:32		James R Williams II	1
06025	Arsenic	SW-846 6020	1	02/01/2008 09:32		James R Williams II	1
06028	Cadmium	SW-846 6020	1	02/01/2008 09:32		James R Williams II	1
06031	Chromium	SW-846 6020	1	02/01/2008 09:32		James R Williams II	1
06035	Lead	SW-846 6020	1	02/01/2008 09:32		James R Williams II	1
06039	Nickel	SW-846 6020	1	02/01/2008 09:32		James R Williams II	1
06041	Selenium	SW-846 6020	1	02/01/2008 09:32		James R Williams II	1
07053	Copper	SW-846 6010B	1	01/31/2008 14:08		Joanne M Gates	1
07066	Silver	SW-846 6010B	1	01/31/2008 14:08		Joanne M Gates	1
07072	Zinc	SW-846 6010B	1	01/31/2008 14:08		Joanne M Gates	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/29/2008 22:15		Helen L Schaeffer	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	01/30/2008 18:45		Nelli S Markaryan	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	01/30/2008 23:10		Helen L Schaeffer	1



Analysis Report

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Lancaster Laboratories Sample No. WW5266526

Group No. 1075098

209293 V39 Filtered Grab Water Sample

Facility# 209293

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Chevron

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San Ramon CA 94583



Analysis Report

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Lancaster Laboratories Sample No. WW5266527

Group No. 1075098

209293_V33 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/26/2008 13:20 by BB

Account Number: 11964

Submitted: 01/29/2008 09:45

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Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FRO33

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
00259	Mercury	7439-97-6	0.065	0.056	ug/l	1
01743	Aluminum	7429-90-5	248.	80.2	ug/l	1
06024	Antimony	7440-36-0	0.13	0.044	ug/l	1
06025	Arsenic	7440-38-2	N.D.	0.70	ug/l	1
06028	Cadmium	7440-43-9	0.13	0.099	ug/l	1
06031	Chromium	7440-47-3	0.76	0.42	ug/l	1
06035	Lead	7439-92-1	2.9	0.047	ug/l	1
06039	Nickel	7440-02-0	1.3	0.43	ug/l	1
06041	Selenium	7782-49-2	N.D.	0.53	ug/l	1
07053	Copper	7440-50-8	3.6	2.2	ug/l	1
07066	Silver	7440-22-4	N.D.	1.6	ug/l	1
07072	Zinc	7440-66-6	122.	8.1	ug/l	1
00206	Total Suspended Solids	n.a.	9,270,000.	75,000.	ug/l	1
08255	Total Cyanide (water)	57-12-5	N.D.	5.0	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	1,600.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	560.	95.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
00177	OC Pesticides in Water					
00938	Endrin Ketone	53494-70-5	N.D.	0.00076	ug/l	1
01321	Kepone	143-50-0	N.D.	0.013	ug/l	1
01361	Alpha Chlordane	5103-71-9	0.0029	0.00057	ug/l	1
01362	Gamma Chlordane	5103-74-2	N.D.	0.00057	ug/l	1
01618	Endrin Aldehyde	7421-93-4	N.D.	0.0038	ug/l	1
01880	Alpha BHC	319-84-6	N.D.	0.00051	ug/l	1
01881	Beta BHC	319-85-7	N.D.	0.00076	ug/l	1
01882	Gamma BHC - Lindane	58-89-9	N.D.	0.00038	ug/l	1
01883	Delta BHC	319-86-8	N.D.	0.00057	ug/l	1
01884	Heptachlor	76-44-8	0.0016	0.00057	ug/l	1
01885	Aldrin	309-00-2	N.D.	0.00076	ug/l	1
01886	Heptachlor Epoxide	1024-57-3	N.D.	0.00057	ug/l	1
01887	p,p-DDE	72-55-9	N.D.	0.00095	ug/l	1
01888	p,p-DDD	72-54-8	N.D.	0.00076	ug/l	1
01889	p,p-DDT	50-29-3	N.D.	0.00076	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW5266527

Group No. 1075098

209293 V33 Grab Water Sample

Facility# 209293

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Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FRO33

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
01890	HCB	118-74-1	0.00097	0.00057	ug/l	1
01891	Mirex	2385-85-5	N.D.	0.0072	ug/l	1
01892	Methoxychlor	72-43-5	N.D.	0.0057	ug/l	1
01893	Dieldrin	60-57-1	0.00096	0.00076	ug/l	1
01894	Endrin	72-20-8	0.0019	0.00076	ug/l	1
01895	Telodrin	297-78-9	N.D.	0.00068	ug/l	1
01896	Chlordane	57-74-9	N.D.	0.013	ug/l	1
01897	Toxaphene	8001-35-2	N.D.	0.19	ug/l	1
01898	Endosulfan I	959-98-8	N.D.	0.00057	ug/l	1
01899	Endosulfan II	33213-65-9	N.D.	0.00076	ug/l	1
01900	Endosulfan Sulfate	1031-07-8	N.D.	0.00076	ug/l	1
07077	o,p-DDE	3424-82-6	N.D.	0.00076	ug/l	1
07078	o,p-DDD	53-19-0	N.D.	0.00076	ug/l	1
07079	o,p-DDT	789-02-6	N.D.	0.00076	ug/l	1

The TCX surrogate data is outside the QC limits. There was not enough sample remaining to perform a reextraction.

07394 PCBs in Water

07395	PCB-1016	12674-11-2	N.D.	0.019	ug/l	1
07397	PCB-1221	11104-28-2	N.D.	0.019	ug/l	1
07398	PCB-1232	11141-16-5	N.D.	0.038	ug/l	1
07399	PCB-1242	53469-21-9	N.D.	0.019	ug/l	1
07401	PCB-1248	12672-29-6	N.D.	0.019	ug/l	1
07403	PCB-1254	11097-69-1	N.D.	0.019	ug/l	1
07404	PCB-1260	11096-82-5	N.D.	0.019	ug/l	1
07405	PCB-1262	37324-23-5	N.D.	0.038	ug/l	1
07406	PCB-1268	11100-14-4	N.D.	0.019	ug/l	1

04678 TCL SW846 Semivolatiles/Waters

03952	Dimethylphthalate	131-11-3	N.D.	2.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	ug/l	1

08357 Selected SVOAs by 8270 SIM

08362	Naphthalene	91-20-3	0.19	0.0095	ug/l	1
08365	Acenaphthylene	208-96-8	0.097	0.0095	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW5266527

Group No. 1075098

209293_V33 Grab Water Sample

Facility# 209293

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Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FRO33

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
				Detection Limit		
08366	Acenaphthene	83-32-9	0.21	0.0095	ug/l	1
08368	Fluorene	86-73-7	0.35	0.0095	ug/l	1
08369	Phenanthrene	85-01-8	0.75	0.0095	ug/l	1
08370	Anthracene	120-12-7	0.13	0.0095	ug/l	1
08372	Fluoranthene	206-44-0	0.15	0.0095	ug/l	1
08373	Pyrene	129-00-0	0.17	0.0095	ug/l	1
08374	Benzo(a)anthracene	56-55-3	0.037	0.0095	ug/l	1
08375	Chrysene	218-01-9	0.078	0.0095	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	0.043	0.0095	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	0.036	0.0095	ug/l	1
08378	Benzo(a)pyrene	50-32-8	0.038	0.0095	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	0.023	0.0095	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0095	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	0.038	0.0095	ug/l	1
05382	EPA SW846/8260 (water)					
05384	Dichlorodifluoromethane	75-71-8	N.D.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW5266527

Group No. 1075098

209293_V33 Grab Water Sample

Facility# 209293

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Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FRO33

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.5	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.5	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
08202	EPA SW 846/8260 - Water					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
06302	Acetone	67-64-1	17.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.	2.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06888	Acrolein	107-02-8	N.D.	40.	ug/l	1
07583	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2.	ug/l	1

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	01/31/2008 14:40	Damary Valentin	1



Analysis Report

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Lancaster Laboratories Sample No. WW5266527

Group No. 1075098

209293_V33 Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/26/2008 13:20 by BB

Account Number: 11964

Submitted: 01/29/2008 09:45

Reported: 02/15/2008 at 10:22

Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FRO33

01743	Aluminum	SW-846 6010B	1	01/31/2008 14:13	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	02/01/2008 09:37	James R Williams II	1
06025	Arsenic	SW-846 6020	1	02/01/2008 09:37	James R Williams II	1
06028	Cadmium	SW-846 6020	1	02/01/2008 09:37	James R Williams II	1
06031	Chromium	SW-846 6020	1	02/01/2008 09:37	James R Williams II	1
06035	Lead	SW-846 6020	1	02/01/2008 09:37	James R Williams II	1
06039	Nickel	SW-846 6020	1	02/01/2008 09:37	James R Williams II	1
06041	Selenium	SW-846 6020	1	02/01/2008 09:37	James R Williams II	1
07053	Copper	SW-846 6010B	1	01/31/2008 14:13	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	01/31/2008 14:13	Joanne M Gates	1
07072	Zinc	SW-846 6010B	1	01/31/2008 14:13	Joanne M Gates	1
00206	Total Suspended Solids	SM20 2540 D	1	01/29/2008 19:17	Geraldine C Smith	1
08255	Total Cyanide (water)	SW-846 9012A	1	02/05/2008 11:03	William L Hamaker Jr	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	02/05/2008 20:25	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	01/30/2008 02:37	Steven A Skiles	1
00177	OC Pesticides in Water	SW-846 8081A	1	02/01/2008 16:30	Mark E McNulty	1
07394	PCBs in Water	SW-846 8082	1	01/31/2008 12:44	Jamie L Brillhart	1
04678	TCL SW846	SW-846 8270C	1	02/01/2008 04:48	Linda M Hartenstine	1
08357	Semivolatiles/Waters					
	Selected SVOAs by 8270 SIM	SW-846 8270C SIM	1	01/31/2008 04:51	Linda M Hartenstine	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	02/07/2008 16:31	Nicholas R Rossi	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	02/07/2008 16:31	Nicholas R Rossi	1
00813	BNA Water Extraction	SW-846 3510C	1	01/30/2008 15:00	Mariam G Attalla	1
00813	BNA Water Extraction	SW-846 3510C	2	01/30/2008 16:45	Kevin P Love	1
00817	Water Sample Pest. Extraction	SW-846 3510C	1	01/31/2008 02:30	Roman Kuropatkin	1
00817	Water Sample Pest. Extraction	SW-846 3510C	2	01/31/2008 17:15	JoElla L Rice	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/30/2008 02:37	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/07/2008 16:31	Nicholas R Rossi	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/29/2008 22:15	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	02/01/2008 12:00	Mariam G Attalla	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	01/30/2008 18:45	Nelli S Markaryan	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	01/30/2008 23:10	Helen L Schaeffer	1
08256	Cyanide Water Distillation	SW-846 9012A	2	02/02/2008 01:30	Carolyn M Mastropietro	1



Analysis Report

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Lancaster Laboratories Sample No. WW5266528

Group No. 1075098

209293_V33 Filtered Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/26/2008 13:20 by BB

Account Number: 11964

Submitted: 01/29/2008 09:45

Reported: 02/15/2008 at 10:22

Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00259	Mercury	7439-97-6	0.068		0.056	ug/l	1
01743	Aluminum	7429-90-5	N.D.		80.2	ug/l	1
06024	Antimony	7440-36-0	0.082		0.044	ug/l	1
06025	Arsenic	7440-38-2	N.D.		0.70	ug/l	1
06028	Cadmium	7440-43-9	N.D.		0.099	ug/l	1
06031	Chromium	7440-47-3	N.D.		0.42	ug/l	1
06035	Lead	7439-92-1	0.088		0.047	ug/l	1
06039	Nickel	7440-02-0	0.66		0.43	ug/l	1
06041	Selenium	7782-49-2	N.D.		0.53	ug/l	1
07053	Copper	7440-50-8	N.D.		2.2	ug/l	1
07066	Silver	7440-22-4	N.D.		1.6	ug/l	1
07072	Zinc	7440-66-6	109.		8.1	ug/l	1

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00259	Mercury	SW-846 7470A	1	01/31/2008 14:42		Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	01/31/2008 14:17		Joanne M Gates	1
06024	Antimony	SW-846 6020	1	02/01/2008 09:41		James R Williams II	1
06025	Arsenic	SW-846 6020	1	02/01/2008 09:41		James R Williams II	1
06028	Cadmium	SW-846 6020	1	02/01/2008 09:41		James R Williams II	1
06031	Chromium	SW-846 6020	1	02/01/2008 09:41		James R Williams II	1
06035	Lead	SW-846 6020	1	02/01/2008 09:41		James R Williams II	1
06039	Nickel	SW-846 6020	1	02/01/2008 09:41		James R Williams II	1
06041	Selenium	SW-846 6020	1	02/01/2008 09:41		James R Williams II	1
07053	Copper	SW-846 6010B	1	01/31/2008 14:17		Joanne M Gates	1
07066	Silver	SW-846 6010B	1	01/31/2008 14:17		Joanne M Gates	1
07072	Zinc	SW-846 6010B	1	01/31/2008 14:17		Joanne M Gates	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/29/2008 22:15		Helen L Schaeffer	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	01/30/2008 18:45		Nelli S Markaryan	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	01/30/2008 23:10		Helen L Schaeffer	1



Analysis Report

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Lancaster Laboratories Sample No. WW5266528

Group No. 1075098

209293_V33 Filtered Grab Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/26/2008 13:20 by BB

Account Number: 11964

Submitted: 01/29/2008 09:45

Reported: 02/15/2008 at 10:22

Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583



Analysis Report

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Lancaster Laboratories Sample No. WW5266529

Group No. 1075098

Trip Blank Water Sample
Facility# 209293
5501 NW Front Ave - Portland, OR
Collected: 01/26/2008

Account Number: 11964

Submitted: 01/29/2008 09:45
Reported: 02/15/2008 at 10:22
Discard: 03/17/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FROTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.		ug/l	1
05382	EPA SW846/8260 (water)						
05384	Dichlorodifluoromethane	75-71-8	N.D.	2.		ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.		ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.		ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.		ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.		ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.		ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.		ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8		ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.		ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8		ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8		ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1.		ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8		ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.		ug/l	1
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5		ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.		ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.		ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.		ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8		ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8		ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.		ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5		ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8		ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.5		ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.5		ug/l	1
05418	Styrene	100-42-5	N.D.	1.		ug/l	1
05419	Bromoform	75-25-2	N.D.	1.		ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1.		ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.		ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW5266529

Group No. 1075098

Trip Blank Water Sample

Facility# 209293

5501 NW Front Ave - Portland, OR

Collected: 01/26/2008

Account Number: 11964

Submitted: 01/29/2008 09:45

Reported: 02/15/2008 at 10:22

Discard: 03/17/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FROTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
08202	EPA SW 846/8260 - Water					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
06302	Acetone	67-64-1	N.D.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.	2.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06888	Acrolein	107-02-8	N.D.	40.	ug/l	1
07583	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2.	ug/l	1
	2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.					

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	01/30/2008 01:38	Steven A Skiles	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	02/07/2008 16:53	Nicholas R Rossi	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	02/07/2008 16:53	Nicholas R Rossi	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/30/2008 01:38	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/07/2008 16:53	Nicholas R Rossi	1

Quality Control Summary

Client Name: Chevron

Group Number: 1075098

Reported: 02/15/08 at 10:22 AM

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08021A07B	Sample number(s): 5266525, 5266527, 5266529							
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	109	109	75-135	0	30
Batch number: 08029020601B	Sample number(s): 5266525, 5266527							
Total Suspended Solids	N.D.	3,000.	ug/l	91		56-128		
Batch number: 080300018A	Sample number(s): 5266525, 5266527							
PCB-1016	N.D.	0.020	ug/l	87	78	71-112	11	30
PCB-1221	N.D.	0.020	ug/l					
PCB-1232	N.D.	0.040	ug/l					
PCB-1242	N.D.	0.020	ug/l					
PCB-1248	N.D.	0.020	ug/l					
PCB-1254	N.D.	0.020	ug/l					
PCB-1260	N.D.	0.020	ug/l	95	89	51-124	7	30
PCB-1262	N.D.	0.040	ug/l					
PCB-1268	N.D.	0.020	ug/l					
Batch number: 080301848001	Sample number(s): 5266525-5266528							
Aluminum	N.D.	80.2	ug/l	97		90-112		
Copper	N.D.	2.2	ug/l	102		90-112		
Silver	N.D.	1.6	ug/l	99		90-118		
Zinc	N.D.	8.1	ug/l	102		90-111		
Batch number: 080305713004	Sample number(s): 5266525-5266528							
Mercury	0.098	0.056	ug/l	105		80-120		
Batch number: 080306050001A	Sample number(s): 5266525-5266528							
Antimony	N.D.	0.044	ug/l	97		87-110		
Arsenic	N.D.	0.70	ug/l	100		86-111		
Cadmium	N.D.	0.099	ug/l	100		90-114		
Chromium	N.D.	0.42	ug/l	112		90-118		
Lead	N.D.	0.047	ug/l	106		90-115		
Nickel	N.D.	0.43	ug/l	112		90-113		
Selenium	N.D.	0.53	ug/l	103		85-114		
Batch number: 08030WAB026	Sample number(s): 5266525, 5266527							
Dimethylphthalate	N.D.	2.	ug/l	89		69-106		
Diethylphthalate	N.D.	2.	ug/l	94		79-108		
Di-n-butylphthalate	N.D.	2.	ug/l	97		77-114		
Butylbenzylphthalate	N.D.	2.	ug/l	94		63-120		
bis(2-Ethylhexyl)phthalate	N.D.	2.	ug/l	98		62-126		
Di-n-octylphthalate	N.D.	2.	ug/l	103		71-125		
Batch number: 08030WAE026	Sample number(s): 5266525, 5266527							
Naphthalene	N.D.	0.010	ug/l	92	93	68-120	1	30
Acenaphthylene	N.D.	0.010	ug/l	91	93	65-113	2	30
Acenaphthene	N.D.	0.010	ug/l	93	94	71-122	2	30

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron

Group Number: 1075098

Reported: 02/15/08 at 10:22 AM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCS D Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Fluorene	N.D.	0.010	ug/l	96	99	71-124	4	30
Phenanthrene	N.D.	0.010	ug/l	94	97	70-125	3	30
Anthracene	N.D.	0.010	ug/l	94	98	64-126	4	30
Fluoranthene	N.D.	0.010	ug/l	95	98	69-131	3	30
Pyrene	N.D.	0.010	ug/l	93	93	69-130	0	30
Benzo(a)anthracene	N.D.	0.010	ug/l	95	96	68-129	1	30
Chrysene	N.D.	0.010	ug/l	97	99	69-128	2	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	96	98	56-138	2	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	107	108	62-135	1	30
Benzo(a)pyrene	N.D.	0.010	ug/l	95	97	61-124	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	102	104	62-129	2	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	104	104	39-130	1	30
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	102	104	64-126	2	30
Batch number: 080310015A Sample number(s): 5266525,5266527								
Endrin Ketone	N.D.	0.00080	ug/l	100	95	61-139	5	30
Kepone	N.D.	0.014	ug/l					
Alpha Chlordane	N.D.	0.00060	ug/l	88	87	77-127	1	30
Gamma Chlordane	N.D.	0.00060	ug/l	85	81	52-153	5	30
Endrin Aldehyde	N.D.	0.0040	ug/l	90	85	61-131	6	20
Alpha BHC	N.D.	0.00054	ug/l	90	85	71-123	6	30
Beta BHC	N.D.	0.00080	ug/l	89	83	79-130	7	30
Gamma BHC - Lindane	N.D.	0.00040	ug/l	87	82	71-124	6	30
Delta BHC	N.D.	0.00060	ug/l	91	84	72-132	8	30
Heptachlor	N.D.	0.00060	ug/l	80	77	65-123	4	30
Aldrin	N.D.	0.00080	ug/l	75	74	47-122	1	30
Heptachlor Epoxide	N.D.	0.00060	ug/l	87	83	73-141	5	30
p,p-DDE	N.D.	0.0010	ug/l	95	90	65-123	5	30
p,p-DDD	N.D.	0.00080	ug/l	95	90	65-125	5	30
p,p-DDT	N.D.	0.00080	ug/l	90	86	59-133	5	30
HCB	N.D.	0.00060	ug/l					
Mirex	N.D.	0.0076	ug/l					
Methoxychlor	N.D.	0.0060	ug/l	100	92	49-155	8	30
Dieldrin	N.D.	0.00080	ug/l	90	86	71-129	5	30
Endrin	N.D.	0.00080	ug/l	90	86	69-120	5	30
Telodrin	N.D.	0.00072	ug/l					
Chlordane	N.D.	0.014	ug/l					
Toxaphene	N.D.	0.20	ug/l					
Endosulfan I	N.D.	0.00060	ug/l	86	84	77-120	2	30
Endosulfan II	N.D.	0.00080	ug/l	100	90	75-124	11	30
Endosulfan Sulfate	N.D.	0.00080	ug/l	95	85	69-130	11	30
o,p-DDE	N.D.	0.00080	ug/l					
o,p-DDD	N.D.	0.00080	ug/l					
o,p-DDT	N.D.	0.00080	ug/l					
Batch number: 080320003A Sample number(s): 5266525,5266527								
Diesel Range Organics	N.D.	80.	ug/l	83	86	61-106	4	20
Heavy Range Organics	N.D.	100.	ug/l					
Batch number: 08033117101A Sample number(s): 5266525,5266527								
Total Cyanide (water)	N.D.	5.0	ug/l	102		90-110		
Batch number: Y080381AA Sample number(s): 5266525,5266527,5266529								
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	87		73-119		
Dichlorodifluoromethane	N.D.	2.	ug/l	39		33-125		

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron

Group Number: 1075098

Reported: 02/15/08 at 10:22 AM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Chloromethane	N.D.	1.	ug/l	62		47-122		
Vinyl Chloride	N.D.	1.	ug/l	70		54-123		
Bromomethane	N.D.	1.	ug/l	76		49-117		
Chloroethane	N.D.	1.	ug/l	79		54-117		
Trichlorofluoromethane	N.D.	2.	ug/l	118		59-128		
Methylene Chloride	N.D.	2.	ug/l	98		85-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	93		83-117		
1,1-Dichloroethane	N.D.	1.	ug/l	90		83-127		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	94		84-117		
Chloroform	N.D.	0.8	ug/l	89		77-125		
Bromochloromethane	N.D.	1.	ug/l	95		83-121		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	88		83-127		
Carbon Tetrachloride	N.D.	1.	ug/l	86		77-130		
Benzene	N.D.	0.5	ug/l	93		78-119		
1,2-Dichloroethane	N.D.	0.5	ug/l	83		69-135		
Trichloroethene	N.D.	1.	ug/l	90		87-117		
1,2-Dichloropropane	N.D.	1.	ug/l	93		80-117		
Dibromomethane	N.D.	1.	ug/l	92		87-117		
Bromodichloromethane	N.D.	1.	ug/l	91		83-121		
Toluene	N.D.	0.5	ug/l	95		85-115		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	98		86-113		
Tetrachloroethene	N.D.	0.8	ug/l	92		76-118		
Dibromochloromethane	N.D.	1.	ug/l	97		78-119		
1,2-Dibromoethane	N.D.	0.5	ug/l	96		81-114		
Chlorobenzene	N.D.	0.8	ug/l	95		85-115		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	89		83-114		
Ethylbenzene	N.D.	0.5	ug/l	92		82-119		
m+p-Xylene	N.D.	0.5	ug/l	94		83-113		
o-Xylene	N.D.	0.5	ug/l	94		83-113		
Styrene	N.D.	1.	ug/l	91		82-111		
Bromoform	N.D.	1.	ug/l	89		69-118		
Isopropylbenzene	N.D.	1.	ug/l	90		80-113		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	95		72-119		
1,2,3-Trichloropropane	N.D.	1.	ug/l	96		78-117		
Acetone	N.D.	6.	ug/l	152		40-200		
Carbon Disulfide	N.D.	1.	ug/l	89		69-119		
2-Butanone	N.D.	3.	ug/l	114		52-163		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	87		79-114		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	88		78-114		
4-Methyl-2-pentanone	N.D.	3.	ug/l	87		70-130		
2-Hexanone	N.D.	3.	ug/l	100		61-140		
Xylene (Total)	N.D.	0.5	ug/l	94		83-113		
Methyl Iodide	N.D.	1.	ug/l	93		70-116		
Acrylonitrile	N.D.	4.	ug/l	90		67-128		
Vinyl Acetate	N.D.	2.	ug/l	123	125	71-141	2	30
trans-1,4-Dichloro-2-butene	N.D.	15.	ug/l	77		49-135		
Acrolein	N.D.	40.	ug/l	70		26-151		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	88		66-125		

Sample Matrix Quality Control

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

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron

Group Number: 1075098

Reported: 02/15/08 at 10:22 AM

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 08021A07B TPH by NWTPH-Gx waters	Sample number(s): 5266525, 5266527, 5266529 UNSPK: P260686 108 63-154								
Batch number: 08029020601B Total Suspended Solids	Sample number(s): 5266525, 5266527 BKG: P264192 3,290,000. 3,350,000. 2 20								
Batch number: 080301848001 Aluminum	Sample number(s): 5266525-5266528 UNSPK: P265639 BKG: P265639 102 101 75-125 1 20 N.D. N.D. 0 (1) 20								
Copper	107	106	86-122	1	20	N.D.	N.D.	0 (1)	20
Silver	103	103	75-125	0	20	N.D.	N.D.	0 (1)	20
Zinc	103	103	75-125	0	20	21.7	22.9	5 (1)	20
Batch number: 080305713004 Mercury	Sample number(s): 5266525-5266528 UNSPK: P265774 BKG: P265774 104 104 80-120 0 20 0.14 0.12 14 (1) 20								
Batch number: 080306050001A Antimony	Sample number(s): 5266525-5266528 UNSPK: P256771 BKG: P256771 96 97 75-125 0 20 0.25 0.22 11 (1) 20								
Arsenic	102	104	75-125	2	20	N.D.	N.D.	0 (1)	20
Cadmium	98	101	87-110	3	20	0.11	N.D.	200* (1)	20
Chromium	108	112	83-116	4	20	N.D.	N.D.	0 (1)	20
Lead	104	106	75-125	2	20	1.2	1.2	2 (1)	20
Nickel	109	112	85-117	3	20	0.62	0.64	3 (1)	20
Selenium	103	103	75-125	0	20	N.D.	N.D.	0 (1)	20
Batch number: 08030WAB026 Dimethylphthalate	Sample number(s): 5266525, 5266527 UNSPK: P266542 93 95 8-143 3 30								
Diethylphthalate	93	96	56-120	3	30				
Di-n-butylphthalate	95	94	62-111	1	30				
Butylbenzylphthalate	96	96	60-117	1	30				
bis(2-Ethylhexyl)phthalate	110	102	61-118	7	30				
Di-n-octylphthalate	107	109	68-124	1	30				
Batch number: 08033117101A Total Cyanide (water)	Sample number(s): 5266525, 5266527 UNSPK: P268739 BKG: P268739 94 17-158 N.D. N.D. 0 (1) 20								
Batch number: Y080381AA Methyl Tertiary Butyl Ether	Sample number(s): 5266525, 5266527, 5266529 UNSPK: 5266525 87 93 69-127 7 30								
Dichlorodifluoromethane	49	48	41-149	1	30				
Chloromethane	68	71	47-133	4	30				
Vinyl Chloride	76	81	55-130	6	30				
Bromomethane	81	85	52-129	5	30				
Chloroethane	84	88	57-130	5	30				
Trichlorofluoromethane	87	93	67-150	7	30				
Methylene Chloride	103	105	79-133	3	30				
trans-1,2-Dichloroethene	99	103	82-133	4	30				
1,1-Dichloroethane	95	101	85-135	6	30				
cis-1,2-Dichloroethene	97	105	83-126	8	30				
Chloroform	92	98	83-139	6	30				
Bromochloromethane	96	99	82-129	2	30				
1,1,1-Trichloroethane	93	101	81-142	7	30				
Carbon Tetrachloride	95	100	82-149	6	30				
Benzene	99	104	83-128	5	30				
1,2-Dichloroethane	87	90	70-143	4	30				
Trichloroethene	97	103	83-136	6	30				
1,2-Dichloropropane	97	103	83-129	5	30				
Dibromomethane	94	97	82-128	3	30				
Bromodichloromethane	91	97	80-137	6	30				

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron

Group Number: 1075098

Reported: 02/15/08 at 10:22 AM

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Toluene	97	101	83-127	4	30				
1,1,2-Trichloroethane	97	102	77-125	5	30				
Tetrachloroethene	100	103	78-133	3	30				
Dibromochloromethane	97	100	82-119	3	30				
1,2-Dibromoethane	94	98	78-120	4	30				
Chlorobenzene	96	100	83-120	4	30				
1,1,1,2-Tetrachloroethane	92	94	83-119	2	30				
Ethylbenzene	95	98	82-129	4	30				
m+p-Xylene	96	99	82-130	3	30				
o-Xylene	95	98	82-130	3	30				
Styrene	92	95	69-131	3	30				
Bromoform	88	91	64-119	3	30				
Isopropylbenzene	94	96	81-130	2	30				
1,1,2,2-Tetrachloroethane	94	98	73-121	4	30				
1,2,3-Trichloropropane	92	97	73-125	5	30				
Acetone	80	94	48-143	16	30				
Carbon Disulfide	97	103	74-135	6	30				
2-Butanone	86	93	57-137	8	30				
trans-1,3-Dichloropropene	86	89	77-123	4	30				
cis-1,3-Dichloropropene	90	94	80-126	5	30				
4-Methyl-2-pentanone	84	90	68-133	7	30				
2-Hexanone	84	89	60-135	6	30				
Xylene (Total)	96	99	82-130	3	30				
Methyl Iodide	96	102	72-128	6	30				
Acrylonitrile	86	95	63-132	9	30				
trans-1,4-Dichloro-2-butene	75	75	44-138	0	30				
Acrolein	70	69	28-146	0	30				
2-Chloroethyl Vinyl Ether	0*	0*	1-156	0	30				

Surrogate Quality Control

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

Analysis Name: TPH by NWTPH-Gx waters

Batch number: 08021A07B

Trifluorotoluene-F

5266525	101
5266527	100
5266529	98
Blank	102
LCS	117
LCSD	115
MS	116

Limits: 63-135

Analysis Name: PCBs in Water

Batch number: 080300018A

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 02/15/08 at 10:22 AM

Group Number: 1075098

Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
5266525	111	106
5266527	83	99
Blank	121	103
LCS	103	101
LCSD	81	86
Limits:	30-150	30-150

Analysis Name: TCL SW846 Semivolatiles/Waters
Batch number: 08030WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5
5266525	56	36	96	94
5266527	55	37	95	92
Blank	60	40	89	93
LCS	63	43	92	97
MS	59	48	94	90
MSD	64	50	97	88
Limits:	10-103	10-82	20-159	51-123

	2-Fluorobiphenyl	Terphenyl-d14
5266525	81	63
5266527	79	67
Blank	81	73
LCS	86	72
MS	82	70
MSD	82	68
Limits:	63-118	52-151

Analysis Name: Selected SVOAs by 8270 SIM

Batch number: 08030WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5266525	98	108	101
5266527	109	97	95
Blank	96	108	99
LCS	100	110	104
LCSD	102	112	104
Limits:	50-153	52-132	58-141

Analysis Name: OC Pesticides in Water

Batch number: 080310015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
5266525	58	69
5266527	47*	58
Blank	59	80
LCS	71	93
LCSD	69	87
Limits:	55-130	44-146

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 02/15/08 at 10:22 AM

Group Number: 1075098

Surrogate Quality Control

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 080320003A
Orthoterphenyl

5266525	104
5266527	115
Blank	106
LCS	108
LCSD	113

Limits: 50-150

Analysis Name: EPA SW846/8260 (water)
Batch number: Y080381AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5266525	90	91	92	85
5266527	88	90	93	84
5266529	90	91	91	86
Blank	89	90	91	85
LCS	89	92	94	89
MS	88	92	93	87
MSD	91	88	91	86
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

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

FedEx# 3098-7946-5

Acct. #: 11964

For Lancaster Laboratories use only
Sample #: 5266525-529

SCR#:

Group 1675098

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

3468 Rev. 8/6/01

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories
Where quality is a science.

FedEx# 3098-7946-5

Acct. #: 11964

For Lancaster Laboratories use only

Sample #: 5266525-529

SCR#:

Group 1075098

Analyses Requested

Preservation Codes

Preservative Codes

H = HCl T = Thiosulfate
N = HNO₃ B = NaOH
S = H₂SO₄ O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation

☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy s on highest hit
☐ Run ____ oxy s on all hits

Comments / Remarks

Please Send Results to:
Grant Sprick @
ARCADIS-US.COM
Brooke Bonkoski @
ARCADIS-US.COM
Colleen Martin @
ARCADIS-US.COM
LAB FILTER
METALS

Facility #: 209293 (Willbridge Asphalt)
Site Address: 5501 NW Front Ave, Portland, OR
Chevron PM: Darin Rouse Lead Consultant: Grant Sprick
Consultant/Office: ARCADIS
Consultant Prj. Mgr.: Grant Sprick
Consultant Phone #: 503-220-8201 Fax #: 503-220-8209
Sampler: Bonkoski/Kochiss
Service Order #: ☐ Non SAR:

Matrix

☐ Potable
☐ NPDES
☐ Water
☐ Air
☐ Soil

Total Number of Containers

H	T	H	H	T	B	N
☐	☐	☐	☐	☐	☐	☐
BTEX + MTBE 8021	☐	8260	☐	Naphth	☐	☐
8260 full scan	☐	8270	☐	SIM	☐	☐
Oxygenates	☐		☐		☐	☐
NW TPH G _x Waters	☐		☐		☐	☐
NW TPH G _x Extended Rng.	☐		☐		☐	☐
Lead Total	☐		☐		☐	☐
OC pesticides in water	☐		☐		☐	☐
NWTPH HClID quantification	☐		☐		☐	☐
Total cyanide (H ₂ O)	☐		☐		☐	☐
Total Susp. Solids	☐		☐		☐	☐
Residual Metals (lab filter)	☐		☐		☐	☐
Silver Total Metals	☐		☐		☐	☐

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260	Naphth	8260 full scan	8270	SIM	Oxygenates	NW TPH G _x Waters	NW TPH G _x Extended Rng.	Lead Total	OC pesticides in water	NWTPH HClID quantification	Total cyanide (H ₂ O)	Total Susp. Solids	Residual Metals (lab filter)	Silver Total Metals
209293 V33	01.26.2008	1320	✓			✓			3	X															
									2		X														
									1																
									3								X								
									2									X							
									2											X					
									1													X			
									2															X	
Trip Blank						✓			1																X
									1	X															

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk Other.

Relinquished by:

Christa

Date: 01.28.08
Time: 1100

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by Commercial Carrier:

UPS FedEx Other

Received by:

[Signature]

Date: 1/29/08
Time: 0945

Temperature Upon Receipt: 2.3 °C

Custody Seals Intact?

Yes No

Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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