#### Golder Associates Ltd.

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#### REPORT ON

## RESULTS OF THE OCTOBER 2004 GROUNDWATER MONITORING PROGRAM WHITE PASS AND YUKON ROUTE MAINTENANCE YARD, SKAGWAY, ALASKA

#### Submitted to:

White Pass & Yukon Route P.O. Box 435 Skagway, Alaska 99840

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March 1, 2005 96-1412-853B





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E/05/4647 96-1412-853B

March 1, 2005

White Pass & Yukon Route P.O. Box 435 Skagway, Alaska 99840

Attention: Mr. Gary Danielson

RE: REPORT ON THE OCTOBER 2004 GROUNDWATER MONITORING PROGRAM, WHITE PASS AND YUKON ROUTE MAINTENANCE YARD, SKAGWAY, ALASKA

Dear Mr. Danielson:

This letter describes the results of the October 2004 groundwater sampling program completed at the White Pass and Yukon Route Maintenance Yard, henceforth referred to as the "Shops" or the "Site". The October 2004 groundwater monitoring program was the second monitoring program in 2004, and was conducted in response to a request made by the Alaska Department of Environmental Conservation (ADEC) in their letter, dated February 6, 2004.

#### 1.0 INTRODUCTION

Golder Associates Ltd. (Golder) was on-Site at the Shops during the period of October 19 to 23, 2004. Groundwater samples from 24 wells plus three field duplicate samples were obtained during the October 2004 field program, as follows:

- MW-1HC, MW-1AHC, MW-2HC, MW-3HC, MW4-HC;
- MW97-1, MW97-2, MW97-6 Medium, MW97-6 Deep, MW97-7 Shallow, MW97-7 Medium, MW97-7 Deep;



- MW98-1, MW98-2;
- MW00-31, MW00-32, MW00-33, MW00-34; and,
- Air Sparging (AS) wells AS-2, 4, 6, 8, 10 and 12.

The locations of monitoring wells and AS wells are shown on Figure 1. The AS wells are constructed with short screens completed roughly 50 feet below ground surface. The AS wells were intended primarily for groundwater remediation, and not for groundwater monitoring. While the AS wells are slightly deeper than optimal for monitoring of the chlorinated solvent plume, sampling of these wells in 2004 was conducted to provide additional information along the south property boundary.

Groundwater from four of the on-Site wells was not included in the monitoring program for the following reasons:

- MW97-4 and MW97-5 have been abandoned;
- MW00-35 was dry, and,
- MW97-3 has historically contained separate-phase product above the water table.

Groundwater samples collected from the monitoring wells were analyzed for gasoline range organics (GRO), diesel range organics (DRO), residual range organics (RRO) and volatile organic compounds (VOCs) by North Creek Analytical Laboratory (NCA) of Portland, Oregon. Three field duplicates samples of groundwater were collected and analyzed for quality control purposes.

#### 2.0 METHODOLGY

During the October 2004 monitoring program groundwater samples were collected using standard Golder procedures, which have been employed for the duration of the monitoring effort at the Site and are generally consistent with ADEC guidance. At most wells, the depth to groundwater was initially measured, using a water level meter, in order to calculate the volume of water in the well. In the case of the AS wells, it was not possible to use a water level meter since a piping system is still in place in these wells. As such, the volume of water in the AS wells was estimated based on the groundwater level in adjacent wells and on installation records.

A peristaltic pump was used to remove water from each well, with 1/4 in. diameter high density polyethylene (HDPE) tubing lowered to the approximate midpoint of each well screen. Approximately three well volumes were removed with the pump set at a moderate flow rate of less than 0.5 Liters per minute (Lpm). Physical parameters consisting of pH, temperature and conductivity were monitored in real time as water was pumped through a flow-through cell. Once three well volumes were removed, or the parameters had stabilized (i.e., changes in pH, temperature and conductivity measurements between three successive readings were less than ten percent), samples were collected in pre-cleaned containers supplied by North Creek Analytical Laboratory (NCA) of Portland, Oregon. The collected samples were stored in coolers with ice and shipped to NCA under standard Golder chain-of-custody (COC) procedures.

#### 3.0 RESULTS

#### 3.1 Groundwater Elevations

Groundwater elevations measured during the October 2004 monitoring program are shown in Table 1 and on Figure 2. The elevations shown on Figure 2 are of the shallow well installations only. Based on the elevations, the groundwater flow direction during the October 2004 monitoring program was to the south, parallel to the Skagway River. The horizontal hydraulic gradient in the shallow aquifer is estimated to have been approximately 0.008 ft./ft. during the October 2004 monitoring event. Assuming an effective porosity of 0.3, and a hydraulic conductivity of 6.6 x 10<sup>-2</sup> ft./s (determined using the Hazen method as discussed in our previous report dated October 30, 2003 entitled, "Cleanup Corrective Action, White Pass and Yukon Route Maintenance Yard, Skagway Alaska") the average linear groundwater velocity is estimated to have been approximately 150 ft./day. Vertical hydraulic gradients, as measured at three monitoring well pairs during the October 2004 monitoring event, ranged between approximately 0.01 and 0.1 ft./ft. downward.

Groundwater elevations were measured over a three day period, during which some variation in the elevation of the water table is expected. The elevation of the water table during the October 2004 monitoring was low in comparison to past monitoring events.

#### 3.2 Product in MW97-3

On October 21, 2004 a disposable bailer was used to determine if product was present in MW97-3. The bailer was lowered to the water table, without allowing it to become fully submerged, in order to collect a sample at the top of the water table that included separate-phase product. The bailer was brought to the surface and through visual inspection the product was estimated to be roughly 0.2 inches thick. The product was dark brown in color and had odor resembling diesel fuel.

#### 3.3 Groundwater

The results of the October 2004 groundwater testing at the Shops are shown in Table 2, alongside historical data in order to assess the change in concentrations over time. Figures showing the concentrations of TCE and DRO in groundwater in samples collected during the October 2004 monitoring program are presented in Figures 3 and 4, respectively. Figures showing the historical changes of TCE and DRO concentrations in downgradient wells with time are shown in Figures 5 and 6.

Groundwater samples collected during the monitoring program from down-gradient, off-site wells MW-1HC (deep well installation), MW-1AHC (shallow well installation), and MW-4HC were below the Alaska Department of Environmental Conservation (ADEC) groundwater standards for the parameters analyzed. Detectable concentrations of cis-1, 2-Dichloroethene (DCE) and TCE were present in wells MW-1HC and MW-1AHC. TCE was also detected in well MW-4HC. The maximum TCE concentration in the off-site wells was 0.00348 mg/L (3.48  $\mu$ g/L) measured in the sample collected from MW-1HC (deep well).

Groundwater samples collected from on-Site monitoring wells MW-2HC, MW97-2, MW97-6M, MW98-1 and MW00-34 exceeded the ADEC standard for TCE of 0.005 mg/L (5  $\mu$ g/L). The highest concentration of TCE was measured in the sample collected from MW98-1 with a concentration of 0.029 mg/L (29.0  $\mu$ g/L). Groundwater samples collected from the other on-Site wells had concentrations below the ADEC standards for the parameters analyzed.

During the October 2004 field program, groundwater samples were also collected from six of the twelve AS wells (AS-2, 4, 6, 8, 10 and 12) in order assess the potential for off-site migration of the TCE plume. As noted above, the AS wells were designed for the remediation of groundwater with well screens that are slightly deeper than optimal for plume monitoring. Of the groundwater samples collected from the AS wells, three of the six samples were above the ADEC groundwater standard for TCE. Of the AS wells, the highest TCE concentration was detected in the groundwater sample collected from AS-2, which had a TCE concentration of 0.00948 mg/L (9.48  $\mu$ g/L), which was 1.9 times the ADEC standard for TCE. The groundwater sample collected from AS-4 had a TCE concentration of 0.00525 mg/L (5.25  $\mu$ g/L), which was 1.05 times the ADEC standard, and the groundwater sample collected from AS-6 had a TCE concentration of 0.00600 mg/L (6.00  $\mu$ g/L), which was 1.2 times the ADEC standard. Groundwater samples collected from the six AS wells had concentrations below the ADEC standards for the other parameters analyzed.

#### 3.4 Quality Assurance/Quality Control

As part of the October 2004 monitoring program duplicate groundwater samples were collected from wells MW97-2, MW97-6M and MW98-1 for quality assurance and quality control (QA/QC). The results of the duplicate sample analysis are shown in Table 3 along with the calculated relative percent differences (RPD). As shown the calculated RPD values were well below the acceptable limit for groundwater of 20 percent.

#### 4.0 STATISTICAL TREND ANALYSIS

The groundwater chemistry provides a means to assess water quality trends for the same point in an aquifer through time. However, the chemistry results are subject to variability because of factors other than real changes occurring in the contaminant plume. Such factors may include, for example, subtle changes in sample acquisition techniques or laboratory protocols, variation caused by seasonal or other cycles, and correlated data which can occur when successive data are collected over a relatively short period of time. The consequent variability must be addressed and/or accounted for in order to establish significant or real trends in aquifer conditions.

Statistical analysis was performed on the collective chemistry data set of TCE concentrations in groundwater between January 1999 and October 2004. This data set represents the groundwater chemistry data collected by Golder since the remedial excavation was conducted at the Site during the Fall of 1998. The Mann-Kendall non-parametric test for trend is considered to test the null hypothesis of no trend, versus the alternative hypothesis of a significant trend. For this assessment, the ten percent significance level was selected to infer a significant trend or, in other words, there should be less than a ten percent chance that the statistical inference of trend is incorrect. This test uses the relative magnitudes of the data (i.e. increase or decrease in concentration), as opposed to using actual concentrations. For results reported as being below the laboratory detection limits, half of the detection limit was used for the test. For samples where a field duplicate was collected, the average of the two values was used. Statistical analysis was not conducted for wells where the TCE concentration in groundwater is typically below laboratory detection limits.

The results of the statistical Mann-Kendall test for trend are presented in Table 4 and on Figure 3. Locations where the probability (p) was less than or equal to ten percent were indicated to define either a significant upward or downward trend. As shown, four locations (MW-1AHC, MW97-1, MW-3HC and MW00-33) were determined to have a downward trend of TCE concentrations in groundwater; one location (MW98-1) was determined to have an increasing trend of TCE concentrations in groundwater, and nine locations were determined to have no significant trends of TCE concentrations in groundwater.

#### 5.0 DISCUSSION AND RECOMMENDATIONS

The October 2004 monitoring indicated that the TCE groundwater concentrations in off-site wells were below the ADEC standard, as they had been during previous monitoring in 2004. The results of the statistical Mann-Kendall test for trend indicated that concentrations of TCE in off-site wells are either decreasing (i.e. MW-1HC) or remaining fairly constant over time (i.e. MW-1AHC and MW-4HC) since the remedial excavation was conducted in Fall 1998. On-Site, results of the Mann-Kendall test for trend indicated overall that concentrations of TCE were either decreasing (MW-97-1, MW-3HC and MW00-33) or showed no significant changes over time since the remedial excavation was conducted in Fall 1998. Once exception to this was at MW98-1 where statistical analysis indicated that the concentration of TCE in groundwater has increased over time since Fall 1998. Further investigation (i.e. test-pitting) of this area is scheduled in 2005 in order to determine if soil in this area is impacted.

The historical concentrations of DRO in groundwater for five wells (MW-1HC, MW-1AHC, MW-2HC, MW97-1 and MW97-6) are shown in Figure 6. As shown in Figure 6, the DRO concentrations in groundwater at the off-site well MW-1AHC were relatively low in 2000, increased in 2001, and then have decreased since that time. The concentrations of DRO in groundwater at MW-1AHC were below the laboratory detection limit on both monitoring events in 2004.

During both monitoring events in 2004, only a thin product layer (0.2 inches) was measured in monitoring well MW97-3. Based on the relatively small thickness and viscous nature of the product, it is not considered practical to recover product from this well. As discussed in our previous monitoring report, dated September 16, 2004, entitled "Current Status of the Cleanup Corrective Action, White Pass and Yukon Route Maintenance Yard, Skagway Alaska", TCE was not detected during the chemical analysis of the product and therefore the product in MW97-3 is unlikely to represent a significant source for the TCE-impacted groundwater plume. The monitoring of the thickness of product in MW97-3 will be continued in 2005.

The AS wells, located near the south property boundary, provided useful information on the chlorinated solvent plume delineation. Of the samples collected from the AS wells, the highest TCE concentration in groundwater was measured in the sparge well located at the western end of the line of AS wells (AS-2). The two other sparge wells for which the concentration of TCE in groundwater slightly exceeded the ADEC standard were also located on the west end of the line of sparge wells. In these AS wells, the concentration of cis-1,2-dichloroethene in groundwater was also elevated, suggesting that biotransformation and natural attenuation of the TCE plume is occurring.

Although re-instatement of the Soil Vapor Extraction (SVE) and AS system had been planned for Summer 2004, based on the current groundwater chemistry data, it is not clear whether re-instatement of the SVE/AS system is required at this time to meet remedial objectives.

We trust that this report provides you the information you require at this time. Should you have any further questions or concerns, please do not hesitate to call the undersigned (direct line 604-296-4233).

Yours very truly,

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### Water Level Elevations, October 2004 Maintenance Yard Shops, Skagway, AK White Pass & Yukon Route

Monitoring Well Location	TOC Elevation (ft) (2)	Depth to Water (ft) (3)	Water Table Elevation (ft)
MW-1A <sup>HC</sup>	69.17	7.82	61.35
MW-1 <sup>HC</sup>	68.93	14.12	54.81
MW-2 <sup>HC</sup>	76.94	11.14	65.80
MW-3 <sup>HC</sup>	75.14	6.59	68.55
MW-4 <sup>HC</sup>	_	7.73	-
MW97-1	74.72	10.65	64.07
MW97-2	77.02	10.07	66.95
MW97-6M	76.80	11.42	65.38
MW97-6D	76.82	13.22	63.60
MW97-7S	74.24	10.04	64.20
MW97-7M	73.65	9.71	63.94
MW97-7D	73.61	9.94	63.67
MW98-1	76.64	9.88	66.76
MW98-2	87.22	12.80	74.42
MW00-31	88.46	16.24	72.22
MW00-32	83.98	12.75	71.23
MW00-33	83.36	12.76	70.60

#### **Notes:**

- 1. 0.2 inch layer of product was detected at MW97-3
- 2. TOC = Top of Well Casing
- 3. Depth to Water Measured from TOC
- 4. Water level measurements recorded during October 2004 groundwater sampling program

	Location		MW-1AHC	MW-1AHC	MW-1AHC	MW-1AHC	MW-1AHC	MW-1A HC	MW-1A HC	MW-1A HC	MW-1AHC	MW-1AHC	MW-1AHC	MW-1AHC	MW-1AHC	MW-1HC	MW-1HC	MW-1HC	MW-1HC	MW-1HC	MW-1 HC	MW-1 HC
	SCN	STANDARD <sup>1</sup>	0840-01	A9800524-14	A9900238-3	A9900715-1	A9900854-3	P005200-02	P0K0452-02	0862-01	0886-12	0903-01	8220-03	9029-04	041021-04	0840-03	A9800524-15	A9900238-2	A9900715-2	A9900854-2	P005200-01	P005488-01
	Date		23-Aug-97	29-Jul-98	10-Jun-99	24-Sep-99	2-Nov-99	6-May-00	14-Nov-00	28-Jun-01	12-Oct-01	19-Sep-02	15-Sep-03	29-May-04	21-Oct-04	23-Aug-97	29-Jul-98	10-Jun-99	24-Sep-99	2-Nov-99	6-May-00	20-May-00
	QA/QC		FDA			•						•	•	•				FDA	FDA			FDA
BTEX																						
Benzene		0.005	_	0.046	0.005	ND (0.001)	ND (0.001)	_	ND (0.0005)	0.000531	ND (0.0003)	0.000618	ND (0.0005)	ND (0.0005)	_	_	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	_	_
Ethylbenzene		0.7	_	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	_	ND (0.0005)		ND (0.0003)	ND (0.0005)	(/	ND (0.0005)	_	_	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	_	_
Toluene		1.0	_	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	_	(010000)	ND (0.0005)	(,	ND (0.0005)	(010000)	(0.0000)	_	_	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	_	_
Xylene (total m,p,o)		10.0	-	0.001	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.0006)	ND (0.001)	. (/	ND (0.001)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	_	-
					, ,		. ,				, ,	, ,						, ,		, ,		
Petroleum Hydrocarbons																						
Diesel Range Organics (DRO)		1.5	-	0.84	0.63	ND (0.1)	0.22	ND (0.250)	0.999	0.817	0.510	0.321	0.28	ND (0.320)	ND (0.435)	-	ND (0.1)	0.15	ND (0.1)	0.11	-	ND (0.250)
Gasoline Range Organics (GRO)		1.3*	-	0.187	ND (0.050)	ND (0.05)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	-	ND (0.05)	ND (0.050)	ND (0.05)	ND (0.05)	ND (0.08)	_
Residual Range Organics (RRO)		1.1	-	-	ND (1)	ND (1.0)	ND (1.0)	ND (0.500)	-	-	-	-		ND (0.400)	ND (0.522)	-	-	ND (1)	ND (1.0)	ND (1.0)	-	ND (0.500)
Volatile Organic Compounds (VOCs)																						
Benzene		0.005	0.0343	0.041	0.0043	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	_
1,1-Dichloroethane		3.65	0.0015	0.0021	0.0013	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND(0.0005)	ND (0.0005)	0.0005	ND (0.0005)	ND (0.0005)	ND (0.001)	-
1,1-Dichloroethene		0.007	ND (0.0005)	) ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	_
cis-1,2-Dichloroethene		0.07	0.0067	0.011	0.0091	0.0016	0.0014	0.00313	0.0047	0.00791	0.00505	0.0086	0.00872	0.00317	0.00403	ND (0.0005)	ND (0.0005)	0.0034	0.0012	0.0008	0.00179	_
Ethylbenzene		0.7	ND (0.0005)	) ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	-
Methylene Chloride		0.005	ND (0.0005)	) ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	-
Naphthalene		0.7	ND(0.0005)	0.006	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)	ND (0.002)	ND (0.002)	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND(0.0005)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)	_
Styrene		0.1	ND (0.0005)	) ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	- !
Tetrachloroethene (PCE)		0.005	0.0045	ND (0.0005)	ND (0.0005)	0.0013	0.0016	0.00191	ND (0.001)	ND (0.001)	ND (0.00027)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	0.0006	0.0014	0.0011	0.0009	0.00116	-
Toluene		1.0	ND (0.0005)	0.0005	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	_
1,1,1-Trichloroethane (TCA)		0.2	ND(0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND(0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	-
Trichloroethene (TCE)		0.005	0.0038	0.0014	0.0039	0.0032	0.0034	0.00543	0.00199	0.00293	0.00245	0.00222	0.00219	0.00202	0.00209	ND(0.0005)	0.0008	0.0054	0.0029	0.0022	0.00471	-
Vinyl Chloride		0.002	0.0007	0.0015	0.001	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND(0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	-
Total Xylene [Calc.]		10.0	ND (0.0005)	) ND (0.0005)	[ND (0.001)]	0.001	[ND (0.001)]	[ND (0.003)]	ND (0.003)	ND (0.003)	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)	ND (0.0005)	ND (0.0005)	[ND (0.001)]	ND (0.0005)	[ND (0.001)]	[ND (0.003)]	-

Date Printed: 2/21/2005

All concentrations are in milligrams per litre (mg/L).

- \*Standard based on estimated solubility.
- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- 2. Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900175 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P210604 (Sept. 2002), P310738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

	Location		MW-1 HC	MW1 HC	MW-1 HC	MW-1HC	MW-1HC	MW-1HC	MW-1HC	MW-1HC	MW-2HC	MW-2HC	MW-2HC	MW-2HC	MW-2HC	MW-2HC	MW-2HC	MW-2HC	MW-2HC	MW-2HC	MW-2HC	MW-2HC
	SCN	STANDARD <sup>1</sup>	P0K0452-01	0862-02	0862-03	0886-11	0903-02	8220-02	9029-03	041021-03	0839-02	A9800524-4	A9900271-10	A9900854-13	P005200-03	P0K0452-03	0862-05	0886-01	0903-12	8220-10	9029-09	041022-04
	Date	•	14-Nov-00	28-Jun-01	28-Jun-01	12-Oct-01	19-Sep-02	15-Sep-03	28-May-04	21-Oct-04	6-Aug-97	30-Jul-98	15-Jun-99	2-Nov-99	8-May-00	14-Nov-00	28-Jun-01	11-Oct-01	20-Sep-02	16-Sep-03	1-Jun-04	22-Oct-04
	QA/QC			FDA	FD																	
BTEX																						
Benzene		0.005	ND (0.0005)	ND (0.0005)	) ND (0.0005)	ND (0.0003)	0.000729	ND (0.0005)	ND (0.0005)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-
Ethylbenzene		0.7	ND (0.0005)	ND (0.0005)	) ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-
Toluene		1.0	ND (0.0005)	ND (0.0005)	) ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-
Xylene (total m,p,o)		10.0	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	-
Petroleum Hydrocarbons																						
Diesel Range Organics (DRO)		1.5	0.321	ND (0.250)	ND (0.250)	ND (0.250)	ND (0.250)	ND (0.250)	ND (0.320)	ND (0.417)	_	3.2	2.34	11.8	2.46	1.27	0.832	0.836	0.299	0.684	ND (0.320)	ND (0.435)
Gasoline Range Organics (GRO)		1.3*	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	-	0.056	ND (0.050)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)
Residual Range Organics (RRO)		1.1	- ′	-	- ′	-	-	` ′	ND (0.400)	ND (0.500)	-	-	ND (1)	1.8	ND (0.500)	-	- ′	-	- ′	` ,	ND (0.400)	ND (0.522)
Volatile Organic Compounds (VOCs)																						
Benzene		0.005	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0007	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethane		3.65	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0234	0.016	0.0018	0.0007	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethene		0.007	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	0.0016	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene		0.07	0.00273	0.00387	0.00374	0.0036	0.00432	0.00324	0.00121	0.00163	0.0271	0.038	0.027	0.0068	0.0283	0.0247	0.0375	0.0379	0.0349	0.0278	0.00751	0.0135
Ethylbenzene		0.7	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001) I	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Methylene Chloride		0.005	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Naphthalene		0.7	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND(0.0005)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)	ND (0.002)	(/	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)
Styrene		0.1	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001) I	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Tetrachloroethene (PCE)		0.005	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.00027)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0318	0.0068	0.0027	0.0016	0.00201	0.00113	ND (0.001)	ND (0.00027)	ND (0.001)	ND (0.001)	0.00126	ND (0.001)
Toluene		1.0	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,1-Trichloroethane (TCA)		0.2	. (,		ND (0.001)	(	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0672	0.021	0.0011	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichloroethene (TCE)		0.005	0.00331	0.00505	0.00498	0.0056	0.00566	0.00725	0.00256	0.00348	0.0585	0.027	0.023	0.0016	0.0244	0.00947	0.013	0.0117	0.0164	0.0159	0.00817	0.0133
Vinyl Chloride		0.002	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND(0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Total Xylene [Calc.]		10.0	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)	ND (0.0005)	ND (0.0005)	[ND (0.001)]	[ND (0.001)]	[ND (0.003)]	ND (0.003)	ND (0.003) I	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)

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All concentrations are in milligrams per litre (mg/L).

ND (0.001) - Not detected at concentrations above laboratory reporting limit (LRL) shown in parentheses.

- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- 2. Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P2I0604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

	Location	MW-3HC	MW-3HC	MW-3HC	MW-3HC	MW-3HC	MW-3HC	MW-3HC	MW-3HC	MW-4HC	MW-4HC	MW-4HC	MW-4HC	MW-4HC	MW-4HC	MW-4HC	MW-4HC	MW-4HC	MW-4HC	MW-4HC
	SCN STANDARD <sup>1</sup>	0839-01	A9800524-13	A9900238-6	A9900854-6	P005200-04	P0K0452-04	9030-03	041020-05	0839-04	A9800524-16	A9900238-1	A9900854-1	P005200-05	0862-11	0885-01	0903-03	8220-01	9029-01	041021-01
	Date	6-Aug-97	30-Jul-98	10-Jun-99	2-Nov-99	8-May-00	14-Nov-00	2-Jun-04	20-Oct-04	6-Aug-97	29-Jul-98	10-Jun-99	2-Nov-99	6-May-00	29-Jun-01	5-Oct-01	19-Sep-02	15-Sep-03	28-May-04	21-Oct-04
	QA/QC					-								FDA			-		-	
BTEX																				
Benzene	0.005	_	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)	ND (0.0005)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	_	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	, -
Ethylbenzene	0.7	_	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)	ND (0.0005)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	_	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	, -
Toluene	1.0	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)	ND (0.0005)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	_	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	, -
Xylene (total m,p,o)	10.0	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.001)	ND (0.001)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.001)	ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	-
Petroleum Hydrocarbons																				
Diesel Range Organics (DRO)	1.5	_	0.37	ND (0.1)	ND (0.1)	ND (0.250)	ND (0.250)	ND (0.320)	ND (0.417)	-	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.250)	ND (0.250)	ND (0.125)	ND (0.250)	ND (0.250)	ND (0.320)	ND (0.435)
Gasoline Range Organics (GRO)	1.3*	_	0.087	ND (0.050)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	-	ND (0.05)	ND (0.050)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)
Residual Range Organics (RRO)	1.1	-	-	ND (1)	ND (1.0)	ND (0.500)	-	ND (0.400)	ND (0.500)	-	-	ND (1)	ND (1.0)	ND (0.500)	-		-	, ,	ND (0.400)	ND (0.522)
Volatile Organic Compounds (VOCs)																				
Benzene	0.005	ND (0.0005)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	0.0008	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	3.65	ND(0.0005)	0.002	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0006	0.0006	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.007	ND (0.0005)	0.013	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.07	0.0020	0.006	0.0088	0.0067	0.00668	0.00351	0.0011	ND (0.001)	0.0011	0.0010	ND (0.0005)	0.0006	0.00112	0.00228	0.00152	0.00118	0.00168	ND (0.001)	ND (0.001)
Ethylbenzene	0.7	ND (0.0005)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Methylene Chloride	0.005	ND (0.0005)	ND (0.01)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Naphthalene	0.7	ND(0.0005)	ND (0.004)	ND (0.002)	ND (0.002)	ND (0.001)	ND (0.002)	ND (0.002)	ND (0.002)	ND(0.0005)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)	. (,	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)
Styrene	0.1	ND (0.0005)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Tetrachloroethene (PCE)	0.005	0.0460	0.12	0.014	0.015	0.00938	0.0134	0.00318	0.00294	0.0011	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.00027)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Toluene	1.0	ND (0.0005)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,1-Trichloroethane (TCA)	0.2	ND(0.0005)	0.11	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0005	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichloroethene (TCE)	0.005	0.0124	0.044	0.03	0.015	0.0183	0.0073	0.00179	ND (0.001)	0.0124	0.0037	ND (0.0005)	0.0014	0.00235	0.00424	0.00228	0.00227	0.00338	0.00211	0.00167
Vinyl Chloride	0.002	ND(0.0005)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND(0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Total Xylene [Calc.]	10.0	ND (0.0005)	ND (0.001)	[ND (0.001)]	[ND (0.001)]	[ND (0.003)]	ND (0.003)	ND (0.001)	ND (0.003)	ND (0.0005)	ND (0.0005)	[ND (0.001)]	[ND (0.001)]	[ND (0.003)]	[ND (0.003)]	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)

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All concentrations are in milligrams per litre (mg/L).

ND (0.001) - Not detected at concentrations above laboratory reporting limit (LRL) shown in parentheses.

- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P210604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

Location		MW-5HC	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1	MW97-1
SCN	STANDARD <sup>1</sup>	0839-03	A709046-01	A9800524-7	A9900271-7	A9900854-10	P005200-06	P0K0452-05	0862-04	0886-09	0886-10	0905-02	0903-03	8221-05	8221-06	9030-06	9030-07	041020-06
Date		6-Aug-97	6-Sep-97	30-Jul-98	15-Jun-99	2-Nov-99	8-May-00	14-Nov-00	28-Jun-01	11-Oct-01	11-Oct-01	20-Sep-02	20-Sep-02	16-Sep-03	16-Sep-03	3-Jun-04	3-Jun-04	20-Oct-04
QA/QC		_	-							FDA	FD	FDA	FD	FDA	FD	FDA	FD	
DECK																		
BTEX	0.005			0.12	0.045	T NID (0.001)		0.0140	1 0 00465	0.00760	0.00460	0.00156	0.00152	0.00220	0.00252	0.00261	0.0006	
Benzene	0.005	-	-	0.13	0.045	ND (0.001)	-	0.0148	0.00465	0.00568	0.00468	0.00156	0.00153	0.00239	0.00252	0.00261	0.0026	-
Ethylbenzene	0.7	-	-	0.27	0.2	ND (0.001)	-	0.0108	0.0476	0.0603	0.0568	0.0295	0.0274	0.0193	0.0201	0.0117	0.0125	-
Toluene	1.0	-	-	0.12	0.046	ND (0.001)	-	0.0981	0.0037	0.00584	0.00479	0.000828	0.000718	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-
Xylene (total m,p,o)	10.0	-	-	0.750	0.58	ND (0.001)	-	0.141	0.0257	0.0514	0.0384	0.00277	0.00234	0.00163	0.00193	ND (0.001)	ND (0.001)	-
Petroleum Hydrocarbons																		
Diesel Range Organics (DRO)	1.5	-	8.4	1.3	5.04	7.1	4.1	2.82	2.92	2.37	2.64	1.71	1.67	1.07	1.22	2.98	2.96	1.48
Gasoline Range Organics (GRO)	1.3*	-	-	3.4	1.8	1.45	0.664	1.36	0.464	1.47	1.19	0.322	0.295	0.315	0.34	ND (0.08)	ND (0.08)	0.0858
Residual Range Organics (RRO)	1.1	-	-	-	ND (1)	1.0	ND (0.500)	-	-		_	-	-			3.57	ND (0.400)	ND (0.522)
Volatile Organic Compounds (VOCs)																		
Benzene	0.005	ND (0.0005)	0.430	0.17	0.044	0.032	0.0118	0.0113	0.00406	0.00294	0.00294	0.00104	0.00106	ND (0.001)	ND (0.001)	0.00208	0.00212	0.00115
1,1-Dichloroethane	3.65	ND(0.0005)	ND (0.05)	0.0082	ND (0.005)	0.0015	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.000214	)ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.007	ND (0.0005)	ND (0.05)	ND (0.0025)	ND (0.005)	ND (0.0005)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.000151	)ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.07	ND (0.0005)	ND (0.03)	0.0056	0.016	0.0043	0.00803	ND (0.005)	0.00762	0.00517	0.00528	0.00652	0.00651	0.00593	0.00703	0.00394	0.00425	0.00559
Ethylbenzene	0.7	ND (0.0005)	0.450	0.280	0.26	0.11	0.134	0.103	0.0544	0.0619	0.0604	0.0283	0.0288	0.0194	0.0188	0.0108	0.0111	0.00584
Methylene Chloride	0.005	ND (0.0005)	0.022	ND (0.005)	ND (0.01)	ND (0.001)	ND (0.005)	ND (0.025)	ND (0.005)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Naphthalene	0.7	ND(0.0005)	0.051	0.030	0.038	0.022	0.0321	0.0221	0.00603	0.0108	0.00963	0.00449	0.00463	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)
Styrene	0.1	ND (0.0005)	ND (0.03)	ND (0.0025)	0.0051	ND (0.0005)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.000154	)ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Tetrachloroethene (PCE)	0.005	ND (0.0005)	ND (0.03)	ND (0.0025)	ND (0.005)	0.0008	ND (0.001)	ND (0.005)	, ,	ND (0.00027)	ND (0.00027)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Toluene	1.0	ND (0.0005)	0.640	0.13	0.051	0.023	0.00697	0.00945	0.00329	0.00333	0.00313	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,1-Trichloroethane (TCA)	0.2	ND(0.0005)	ND (0.05)	ND (0.0025)	ND (0.005)	ND (0.0005)	ND (0.001)	ND (0.005)	ND (0.001)	ND (0.0001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichloroethene (TCE)	0.005	ND(0.0005)	ND (0.03)	ND (0.0025)	ND (0.005)	0.0019	0.00341	ND (0.005)	0.00458	0.00163	0.00174	0.00211	0.00203	0.0012	0.00123	0.00193	0.00187	0.00125
Vinyl Chloride	0.002	ND(0.0005)	ND (0.02)	0.0037	0.015	0.0018	0.00924	ND (0.005)	0.00411	0.00226	0.00225	0.00426	0.00423	0.0043	0.00451	0.00143	0.00138	0.00149
Total Xylene [Calc.]	10.0	ND (0.0005)	[1.6]	0.770	[0.83]	[0.214]	[0.1948]	0.138	0.02686	0.046	0.0381	ND (0.003)	0.00136	0.00458	0.0045	0.00154	ND (0.001)	ND (0.003)

#### Notes:

All concentrations are in milligrams per litre (mg/L).

- \*Standard based on estimated solubility.
- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- 2. Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P210604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

Locat	ion	MW97-2	MW97-2	MW97-2	MW97-2	MW97-2	MW97-2	MW97-2	MW97-2	MW97-2	MW97-2	MW97-2	MW97-2	MW97-2	MW97-2	MW97-3	MW97-4	MW97-4
S	CN STANDARD <sup>1</sup>	A709046-02	A9800524-11	A9900271-9	A9900854-17	P005200-07	P005488-03	P0K0452-06	0862-07	0885-08	0903-09	8220-09	9030-04	041022-05	041022-06	A709046-03	A709046-04	A9800524-9
D	ate	6-Sep-97	30-Jul-98	15-Jun-99	2-Nov-99	5-May-00	20-May-00	14-Nov-00	29-Jun-01	8-Oct-01	19-Sep-02	16-Sep-03	2-Jun-04	22-Oct-04	22-Oct-04	6-Sep-97	6-Sep-97	30-Jul-98
QA/	QC	_	FDA		FD	FDA								FDA	FD			
BTEX																		
Benzene	0.005	_	ND (0.001)	ND (0.001)	ND (0.001)	_	_	ND (0.0005)	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	_	_	_	_	ND (0.001)
Ethylbenzene	0.7	_	ND (0.001)	ND (0.001)	ND (0.001)	-	_	(/	(,	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	_	_	_	_	ND (0.001)
Toluene	1.0	_	ND (0.001)	ND (0.001)	ND (0.001)	-	_	, ,	, ,	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	_	_	_	_	ND (0.001)
Xylene (total m,p,o)	10.0	_	ND (0.001)	ND (0.001)	ND (0.001)	_	_	, ,	` ,	ND (0.0006)	ND (0.001)	ND (0.000)	ND (0.001)	_	_	_	_	ND (0.001)
Ayrene (total m,p,o)	10.0		11D (0.001)	(0.001)	(0.001)			ND (0.001)	11D (0.001)	(0.0000)	ND (0.001)	ND (0.001)	11D (0.001)					(0.001)
Petroleum Hydrocarbons																		
Diesel Range Organics (DRO)	1.5	6.8	0.91	1.87	6.74	-	3.02	0.327	0.474	0.368	0.441	ND (0.250)	0.508	ND (0.417)	ND (0.400)	3.1	1.8	0.74
Gasoline Range Organics (GRO)	1.3*	-	0.051	0.06	0.071	0.238	-	ND (0.08)	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	-	-	ND (0.05)
Residual Range Organics (RRO)	1.1	-	-	7.5	24.2	-	12.3	_	-		-		0.956	ND (0.500)	ND (0.480)	-	-	-
Volatile Organic Compounds (VOCs)																		
Benzene	0.005	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0058	ND (0.0005)
1,1-Dichloroethane	3.65	ND (0.005)	0.004	0.0009	ND (0.0005)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.0005)
1,1-Dichloroethene	0.007	ND (0.005)	0.0021	ND (0.0005)	ND (0.0005)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.0005)
cis-1,2-Dichloroethene	0.07	0.0100	0.021	0.026	0.0073	0.0183	-	0.0152	0.0244	0.0197	0.0154	0.0157	0.00635	0.00902	0.00954	ND (0.003)	0.066	0.0025
Ethylbenzene	0.7	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0035	ND (0.0005)
Methylene Chloride	0.005	ND (0.01)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	-	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	0.012	0.0023	ND (0.001)
Naphthalene	0.7	ND (0.005)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)	-	ND (0.002)	ND (0.002)	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)	0.011	ND (0.002)
Styrene	0.1	ND (0.003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.003)	ND (0.0005)
Tetrachloroethene (PCE)	0.005	0.014	0.017	0.0057	0.011	0.0046	-	0.00416	0.00375	0.00323	0.00335	0.00256	0.00183	0.00239	0.00248	0.083	0.036	0.01
Toluene	1.0	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.015	ND (0.0005)
1,1,1-Trichloroethane (TCA)	0.2	0.021	0.025	0.0009	0.0006	ND (0.001)	-	(	ND (0.001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.063	ND (0.005)	ND (0.0005)
Trichloroethene (TCE)	0.005	0.016	0.047	0.06	0.0048	0.0374	-	0.0185	0.0349	0.0255	0.0372	0.0303	0.0104	0.0163	0.0173	0.019	0.013	0.012
Vinyl Chloride	0.002	ND (0.002)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.002)	ND (0.002)	ND (0.0005)
Total Xylene [Calc.]	10.0	[ND (0.002)]	ND (0.0005)	[ND (0.001)]	[ND (0.001)]	[ND (0.003)]	-	ND (0.003)	ND (0.003)	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)	ND (0.003)	[ND (0.002)]	[0.113]	ND (0.0005)

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All concentrations are in milligrams per litre (mg/L).

- \*Standard based on estimated solubility.
- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P210604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

Location	i	MW97-5	MW97-5	MW97-5	MW97-5	MW97-5	MW97-6M	MW97-6M	MW97-6M	MW97-6M	MW97-6M	MW97-6M	MW97-6N	MW97-6M	MW97-6M	MW97-6M	MW97-6M	MW97-6M	MW97-6M
SCN	STANDARD <sup>1</sup>	A709046-05	A9800524-8	A9900271-6	A9900854-15	P005200-08	A709046-07	A9800524-3	A9900271-11	A9900854-12	P005200-10	P0K0452-07	0862-06	0886-02	0903-10	8220-12	9029-10	041022-02	041022-03
Date	:	6-Sep-97	30-Jul-98	15-Jun-99	2-Nov-99	5-May-00	6-Sep-97	30-Jul-98	15-Jun-99	2-Nov-99	8-May-00	14-Nov-00	29-Jun-01	11-Oct-01	20-Sep-02	16-Sep-03	1-Jun-04	22-Oct-04	22-Oct-04
QA/QC	!	FDA	FDA															FDA	FD
BTEX																			
Benzene	0.005	_ 1	0.22	0.36	ND (0.001)	_	_	ND (0.001)	ND (0.001)	ND (0.001)	_	ND (0.0005)	ND (0.0005	) ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	_	_
Ethylbenzene	0.7	_ '	0.29	0.44	ND (0.001)	_	_	ND (0.001)	ND (0.001)	ND (0.001)	_	(/		) ND (0.0003)	ND (0.0005)	ND (0.0005)	(,	_	_
Toluene	1.0	_	0.23	0.3	ND (0.001)	_	_	ND (0.001)	ND (0.001)	ND (0.001)	_	(/		) ND (0.0003)	ND (0.0005)	ND (0.0005)	(,	_	_
Xylene (total m,p,o)	10.0	_	1.4	2.4	ND (0.001)	_	_	ND (0.001)	ND (0.001)	ND (0.001)	_	(/		ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	_	_
refrence (total in,p,o)	10.0		1.1	2.1	112 (0.001)			112 (0.001)	112 (0.001)	112 (0.001)		112 (0.001)	110 (0.001	(0.0000)	112 (0.001)	112 (0.001)	112 (0.001)		
Petroleum Hydrocarbons																			
Diesel Range Organics (DRO)	1.5	13	8.2	1.69	6.0	1.56	ND (0.25)	0.22	ND (0.100)	0.78	ND (0.250)	ND (0.250)	ND (0.250	ND (0.000156)	ND (0.250)	ND (0.250)	ND (0.320)	ND (0.435)	ND (0.417)
Gasoline Range Organics (GRO)	1.3*	-	6.5	7.1	0.142	3.430	-	ND (0.05)	ND (0.050)	0.066	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)
Residual Range Organics (RRO)	1.1	- '	-	ND (1)	54	ND (0.500)	-	-	ND (1)	ND (1.0)	ND (0.500)	-	-		-		ND (0.400)	ND (0.522)	ND (0.500)
Volatile Organic Compounds (VOCs)					_			_											
Benzene	0.005	0.160	0.36	0.35	0.0036	0.162	0.009	ND (0.0005)	ND (0.0005)	0.0014	ND (0.001)	ND (0.001)	ND (0.001	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	3.65	ND (0.025)	ND (0.01)	ND (0.05)	ND (0.0005)	ND (0.01)	ND (0.005)	0.0034	ND (0.0005)	0.0011	ND (0.001)	ND (0.001)	ND (0.001	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.007	ND (0.025)	ND (0.01)	ND (0.05)	ND (0.0005)	ND (0.01)	ND (0.005)	0.0014	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.07	0.024	0.045	0.053	0.0009	0.0321	0.017	0.019	0.015	0.021	0.0203	0.019	0.0241	0.0216	0.0148	0.0139	0.0109	0.0109	0.0107
Ethylbenzene	0.7	0.180	0.31	0.45	0.0066	0.199	0.010	ND (0.0005)	ND (0.0005)	0.0005	ND (0.001)	ND (0.001)	ND (0.001	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Methylene Chloride	0.005	0.037	ND (0.02)	ND (0.1)	ND (0.001)	ND (0.05)	0.0076	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Naphthalene	0.7	0.025	0.043	ND (0.2)	ND (0.002)	0.0205	ND (0.005)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)	ND (0.002)	ND (0.002	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)
Styrene	0.1	0.27	ND (0.01)	ND (0.05)	ND (0.0005)	ND (0.01)	ND (0.003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)		ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Tetrachloroethene (PCE)	0.005	ND (0.015)	ND (0.01)	ND (0.05)	0.0009	ND (0.01)	0.012	0.011	0.0062	0.0027	0.00395	0.00404	0.00283	0.00248	0.00228	0.00158	0.00227	0.00164	0.00166
Toluene	1.0	0.270	0.34	0.26	0.0014	0.0649	0.022	ND (0.0005)	ND (0.0005)	0.0009	ND (0.001)	ND (0.001)		ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,1-Trichloroethane (TCA)	0.2	ND (0.025)	ND (0.01)	ND (0.05)	ND (0.0005)	ND (0.01)	0.019	0.018	0.0011	0.0006	ND (0.001)	ND (0.001)		ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichloroethene (TCE)	0.005	ND (0.015)	ND (0.01)	ND (0.05)	0.0006	ND (0.01)	0.030	0.045	0.041	0.012	0.0398	0.0241	0.0375	0.0292	0.0361	0.0322	0.0196	0.0206	0.0204
Vinyl Chloride	0.002	ND (0.01)	ND (0.01)	ND (0.05)	ND (0.0005)	ND (0.01)	ND (0.002)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	()	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Total Xylene [Calc.]	10.0	[0.78]	1.8	[2.84]	[0.0201]	[1.042]	[0.042]	ND (0.0005)	[ND (0.001)]	[0.0058]	[ND (0.003)]	ND (0.003)	ND (0.003	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)	ND (0.003)

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All concentrations are in milligrams per litre (mg/L).

- \*Standard based on estimated solubility.
- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P2I0604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

Locatio	n	MW97-6D	MW97-6D	MW97-6D	MW97-6D	MW97-6D	MW97-6D	MW97-6D	MW97-6D	MW97-6D	MW97-6D	MW97-6D	MW97-6D	MW97-7S	MW97-7S	MW97-7S	MW97-7S	MW97-7S	MW97-7S
SC	N STANDARD <sup>1</sup>	A709046-08	A9800524-5	A9900271-8	A9900854-11	P005200-09	P0K0452-08	0878-06	0886-03	0903-11	8220-11	9029-11	041022-01	A709046-09	A9800524-6	A9900271-1	A9900854-9	P005200-13	P0K0452-09
Dat	e	6-Sep-97	30-Jul-98	15-Jun-99	2-Nov-99	8-May-00	14-Nov-00	28-Jul-01	11-Oct-01	20-Sep-02	16-Sep-03	1-Jun-04	22-Oct-04	6-Sep-97	30-Jul-98	15-Jun-99	2-Nov-99	5-May-00	10-Nov-00
QA/Q	C													_		FDA			
DECLY																			
BTEX			***** (0.004)					3.775 (O.O.O.O.F.)			******								
Benzene	0.005	-	ND (0.001)	ND (0.001)	ND (0.001)	-	(/	(/	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.001)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)
Ethylbenzene	0.7	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)	(,	(/	ND (0.0005)	ND (0.0005)	ND (0.001)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)
Toluene	1.0	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)	(/	(/	ND (0.0005)	ND (0.0005)	ND (0.001)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)
Xylene (total m,p,o)	10.0	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.001)
Petroleum Hydrocarbons																			
Diesel Range Organics (DRO)	1.5	ND (0.25)	0.28	ND (0.100)	ND (0.1)	ND (0.250)	ND (0.250)	ND (0.250)	ND (0.000156)	ND (0.250)	ND (0.250)	ND (0.320)	ND (0.417)	0.47	0.14	ND (0.100)	0.12	ND (0.250)	ND (0.250)
Gasoline Range Organics (GRO)	1.3*	-	ND (0.05)	ND (0.050)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	-	ND (0.05)	ND (0.050)	ND (0.05)	ND (0.08)	ND (0.08)
Residual Range Organics (RRO)	1.1	_	-	ND (1)	ND (1.0)	ND (0.500)	- (0.00)	-	112 (0.03)	-	112 (0.00)	ND (0.400)	ND (0.500)	_	-	ND (1)	ND (1.0)	ND (0.500)	-
				(-)	()	(0.000)						()	(*****)			(-)	()	(0.000)	
Volatile Organic Compounds (VOCs)	l ———		т																
Benzene	0.005	0.0082	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	. (,	. (,	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	3.65	ND (0.005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	` ′	, ,	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.0005)	(0.0000)	ND (0.0005)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.007	ND (0.005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.07	0.015	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	. (,	. (,	ND (0.000187)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.0005)	(010000)	ND (0.0005)	ND (0.001)	. (,
Ethylbenzene	0.7	0.0089	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)
Methylene Chloride	0.005	0.0049	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	0.0067	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)
Naphthalene	0.7	ND (0.005)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)	ND (0.002)	ND (0.002)	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)	ND (0.002)
Styrene	0.1	ND (0.003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)
Tetrachloroethene (PCE)	0.005	0.011	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.00027)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0020	0.0006	0.0028	0.0022	0.00280	0.00148
Toluene	1.0	0.020	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)
1,1,1-Trichloroethane (TCA)	0.2	0.015	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)
Trichloroethene (TCE)	0.005	0.029	0.0012	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000359)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.0005)	0.002	0.0016	0.00271	ND (0.001)
Vinyl Chloride	0.002	ND (0.002)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.002)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)
Total Xylene [Calc.]	10.0	[0.038]	ND (0.0005)	[ND (0.001)]	[ND (0.001)]	[ND (0.003)]	ND (0.003)	ND (0.003)	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)	[ND (0.002)]	ND (0.0005)	[ND (0.001)]	[ND (0.001)]	[ND (0.003)]	ND (0.003)

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All concentrations are in milligrams per litre (mg/L).

ND (0.001) - Not detected at concentrations above laboratory reporting limit (LRL) shown in parentheses.

- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P210604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

Loca	ation	MW97-7S	MW97-7S	MW97-7S	MW97-7S	MW97-7S	MW97-7S	MW97-7S	MW97-7S	MW97-7S	MW97-7M	MW97-7M	MW97-7M	MW97-7M	MW97-7M	MW97-7M
	SCN STANDARD <sup>1</sup>	0862-12	0886-05	0886-06	0903-13	0903-14	8221-01	8221-02	9030-02	041021-07	A709046-10	A9800524-2	A9900271-3	A9900854-8	P005200-12	P0K0452-10
	Date	29-Jun-01	11-Oct-01	11-Oct-01	20-Sep-02	20-Sep-02	16-Sep-03	16-Sep-03	2-Jun-04	21-Oct-04	6-Sep-97	30-Jul-98	15-Jun-99	2-Nov-99	5-May-00	10-Nov-00
QA	A/QC		FDA	FD	FDA	FD	FDA	FD								
BTEX																
Benzene	0.005	ND (0.0005)	ND (0.0003)	ND (0.0003)	ND (0.0005)	_	_	ND (0.001)	ND (0.001)	ND (0.001)	_	ND (0.0005)				
Ethylbenzene	0.7	ND (0.0005)	` ,	ND (0.0003)	ND (0.0005)	_	_	ND (0.001)	ND (0.001)	ND (0.001)	_	ND (0.0005)				
Toluene	1.0	ND (0.0005)	ND (0.0003)	ND (0.0003)	ND (0.0005)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)				
Xylene (total m,p,o)	10.0	ND (0.001)	ND (0.0006)	ND (0.0006)	ND (0.001)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.001)				
Petroleum Hydrocarbons																
Diesel Range Organics (DRO)	1.5	ND (0.250) N	ID (0.000156)	ND (0.000156)	ND (0.250)	ND (0.250)	ND (0.250)	ND (0.250)	0.481	ND (0.417)	ND (0.25)	0.22	ND (0.100)	ND (0.1)	ND (0.250)	ND (0.250)
Gasoline Range Organics (GRO)	1.3*	ND (0.08)	ND (0.05)	ND (0.05)	ND (0.08)	ND (0.08)	- (0.25)	ND (0.05)	ND (0.050)	ND (0.05)	ND (0.08)	ND (0.08)				
Residual Range Organics (RRO)	1.1	-	112 (0.00)	112 (0.05)	-	-	112 (0.00)	112 (0.00)	ND (0.400)	ND (0.500)	-	-	ND (1)	ND (1.0)	ND (0.500)	-
Volatile Organic Compounds (VOCs)																
Benzene	0.005	ND (0.001) N	ID (0.000121)	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)				
1,1-Dichloroethane	3.65	ND (0.001) N	ID (0.000214)	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)				
1,1-Dichloroethene	0.007	ND (0.001) N	ID (0.000151)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)				
cis-1,2-Dichloroethene	0.07	ND (0.001) N	ID (0.000187)	ND (0.000187)	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)				
Ethylbenzene	0.7	ND (0.001) N	ID (0.000143)	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)				
Methylene Chloride	0.005	ND (0.005)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	0.0080	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)				
Naphthalene	0.7	ND (0.002) N	ID (0.000104)	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)	ND (0.002)				
Styrene	0.1	ND (0.001) N	ID (0.000154)	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)				
Tetrachloroethene (PCE)	0.005	0.00198	0.0025	0.00249	0.00204	0.00205	0.00114	0.00106	ND (0.001)	ND (0.001)	0.0049	0.0014	0.0024	0.0018	0.00234	0.00179
Toluene	1.0	ND (0.001) N	ID (0.000115)	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)				
1,1,1-Trichloroethane (TCA)	0.2	ND (0.001)	ND (0.0001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)				
Trichloroethene (TCE)	0.005	0.0016	0.00226	0.00225	0.00249	0.00258	0.0021	0.002	ND (0.001)	ND (0.001)	ND (0.003)	0.0012	0.0021	0.0013	0.00280	0.00132
Vinyl Chloride	0.002	ND (0.001)	ND (0.00031)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.002)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)				
Total Xylene [Calc.]	10.0	ND (0.003) N	ND (0.000353)	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)	[ND (0.002)]	ND (0.0005)	[ND (0.001)]	[ND (0.001)]	[ND (0.003)]	ND (0.003)

#### Notes:

All concentrations are in milligrams per litre (mg/L).

ND (0.001) - Not detected at concentrations above laboratory reporting limit (LRL) shown in parentheses.

- \*Standard based on estimated solubility.
- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P210604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

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Locati	on	MW97-7M	MW97-7M	MW97-7M	MW97-7M	MW97-7M	MW97-7M	MW97-7D	MW97-7D	MW97-7D	MW97-7D	MW97-7D	MW97-7D	MW97-7D	MW97-7D	MW97-7D	MW97-7D	MW97-7D	MW97-7D
SC	N STANDARD <sup>1</sup>	0878-04	0886-07	0903-15	8221-03	9029-12	041021-06	A709046-11	A9800524-1	A9900271-2	A9900854-7	P005200-11	P0K0452-11	0878-05	0886-08	0905-01	8221-04	9030-01	041021-05
Da	te	27-Jul-01	11-Oct-01	20-Sep-02	16-Sep-03	1-Jun-04	21-Oct-04	6-Sep-97	30-Jul-98	15-Jun-99	2-Nov-99	5-May-00	10-Nov-00	27-Jul-01	11-Oct-01	20-Sep-02	16-Sep-03	1-Jun-04	21-Oct-04
QA/O	c			•	•			•								•	•		ļ
BTEX																			ľ
Benzene	0.005	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)	ND (0.0005	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-
Ethylbenzene	0.7	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)	ND (0.0005	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-
Toluene	1.0	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.0005)	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-
Xylene (total m,p,o)	10.0	ND (0.001)	ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	-	-	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	-
																			ľ
Petroleum Hydrocarbons																			ľ
Diesel Range Organics (DRO)	1.5	0.381	ND (0.000156)	ND (0.250)	ND (0.250)	ND (0.320)	ND (0.417)	0.34	0.28	ND (0.100)	ND (0.1)	ND (0.250)	ND (0.250)	1.03	ND (0.000156)	ND (0.250)	ND (0.250)	ND (0.320)	ND (0.435)
Gasoline Range Organics (GRO)	1.3*	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	-	ND (0.05)	ND (0.050)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)
Residual Range Organics (RRO)	1.1	-		-		ND (0.400)	ND (0.500)	-	-	ND (1)	ND (1.0)	ND (0.500)	-	-		-		ND (0.400)	ND (0.522)
Volatile Organic Compounds (VOCs)																			ľ
Benzene	0.005	ND (0.001) I	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	3.65	ND (0.001) 1	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.007	ND (0.001) 1	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.07	ND (0.001) I	ND (0.000187)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000187)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Ethylbenzene	0.7	ND (0.001) 1	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Methylene Chloride	0.005	ND (0.005)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	0.0083	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Naphthalene	0.7	ND (0.002) 1	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)	ND (0.002)	ND (0.002)	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)
Styrene	0.1	ND (0.001) 1	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Tetrachloroethene (PCE)	0.005	0.00235	0.00251	0.00187	0.00109	ND (0.001)	ND (0.001)	0.0034	0.0019	0.0018	0.0017	0.00179	0.00143	0.00136	0.00183	0.00131	ND (0.001)	ND (0.001)	ND (0.001)
Toluene	1.0	ND (0.001) 1	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,1-Trichloroethane (TCA)	0.2	ND (0.001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichloroethene (TCE)	0.005	0.00242	0.00258	0.00277	0.0023	ND (0.001)	ND (0.001)	ND (0.003)	0.0008	0.0015	0.0013	0.00208	0.00107	0.00159	0.00186	0.00171	0.00149	ND (0.001)	ND (0.001)
Vinyl Chloride	0.002	ND (0.001)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.002)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Total Xylene [Calc.]	10.0	ND (0.003) 1	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)	[ND (0.002)]	ND (0.0005)	[ND (0.001)]	[ND (0.001)]	[ND (0.003)]	ND (0.003)	ND (0.003)	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)

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All concentrations are in milligrams per litre (mg/L).

- \*Standard based on estimated solubility.
- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P2I0604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

Location		MW98-1	MW98-1	MW98-1	MW98-1	MW-98-1	MW98-1	MW98-1	MW98-1	MW98-1	MW98-1	MW98-1	MW98-1	MW98-2	MW98-2	MW98-2	MW-98-2	MW98-2	MW98-2	MW98-2	MW98-2	MW98-2	MW98-2
SCN	STANDARD <sup>1</sup>	A9800683-1	A9900238-5	A9900854-5	P005200-14	P0K0452-1	2 0862-10	0885-07	0903-05	8220-05	9029-08	041021-08	041021-09	A9900271-5	A9900854-4	P005200-15	P0K0452-13	0878-03	0885-03	0903-04	8220-04	9029-02	041020-01
Date		1-Sep-98	10-Jun-99	2-Nov-99	6-May-00	14-Nov-00	29-Jun-01	8-Oct-01	19-Sep-02	15-Sep-03	1-Jun-04	21-Oct-04	21-Oct-04	15-Jun-99	2-Nov-99	8-May-00	10-Nov-00	27-Jul-01	7-Oct-01	19-Sep-02	15-Sep-03	28-May-04	20-Oct-04
QA/QC												FDA	FD										
2000																							
BTEX																							
Benzene	0.005	(/	ND (0.001)	ND (0.001)	-	. (	,	5) ND (0.0003)	ND (0.0005)	ND (0.0005)	(,	-	-	ND (0.001)	ND (0.001)	-	(/	ND (0.0005)	(/	ND (0.0005)	(/	ND (0.0005)	-
Ethylbenzene	0.7	ND (0.001)	ND (0.001)	ND (0.001)	-	. (	,	5) ND (0.0003)	ND (0.0005)	ND (0.0005)	. (,	-	-	ND (0.001)	ND (0.001)	-	(/	ND (0.0005)	(/	ND (0.0005)	, ,	ND (0.0005)	-
Toluene	1.0	ND (0.001)	ND (0.001)	ND (0.001)	-	,	,	5) ND (0.0003)	ND (0.0005)	ND (0.0005)	(,	-	-	ND (0.001)	ND (0.001)	-	(/	ND (0.0005)	(/	ND (0.0005)	` ,	ND (0.0005)	-
Xylene (total m,p,o)	10.0	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.001)	ND (0.001)	) ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	-	-	ND (0.001)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	-
Petroleum Hydrocarbons																							
Diesel Range Organics (DRO)	1.5	_	ND (0.1)	0.41	ND (0.250)	ND (0.250)	ND (0.250)	) ND (0.125)	ND (0.250)	ND (0.250)	ND (0.320)	ND (0.500)	ND (0.435)	ND (0.100)	ND (0.1)	ND (0.250)	ND (0.250)	ND (0.250)	ND (0.125)	ND (0.250)		ND (0.320)	ND (0.435)
Gasoline Range Organics (GRO)	1.3*	-	ND (0.050)	ND (0.05)	ND (0.230)	ND (0.230)	(	, , , , , , , , , , , , , , , , , , , ,	ND (0.08)	ND (0.230)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.050)	ND (0.05)	ND (0.230)	ND (0.230)	ND (0.230)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)
Residual Range Organics (RRO)	1.1	_	ND (1)	ND (1.0)	ND (0.500)	11D (0.00)	TTD (0.00)	TVD (0.03)	(0.00)	11D (0.00)	ND (0.400)	ND (0.600)	ND (0.522)	ND (1)	ND (1.0)	ND (0.500)	TVD (0.00)	(0.00)	TTD (0.03)	(0.00)	14D (0.00)	ND (0.400)	ND (0.522)
	1.1		ND (1)	14D (1.0)	14D (0.500)						ND (0.400)	(0.000)	ND (0.322)	110 (1)	(1.0)	ND (0.500)						11D (0.400)	ND (0.322)
Volatile Organic Compounds (VOCs)	<u></u>																						
Benzene	0.005	-	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	) ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	. (,	. (,	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	3.65	-	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	) ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.007	-	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	) ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.07	-	ND (0.0005)	ND (0.0005)	0.00306	0.0327	0.00231	0.0129	0.00439	0.0026	0.00529	0.013	0.0129	ND (0.0005)	0.029	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000187)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Ethylbenzene	0.7	-	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)		) ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Methylene Chloride	0.005	-	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	) ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.001)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Naphthalene	0.7	-	ND (0.002)	ND (0.002)	ND (0.001)	ND (0.002)	ND (0.002)	) ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.001)	ND (0.002)	ND (0.002)	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)
Styrene	0.1	-	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	) ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Tetrachloroethene (PCE)	0.005	-	ND (0.0005)	ND (0.0005)	ND (0.001)	0.00316	ND (0.001)	) ND (0.00027)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	0.0062	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.00027)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Toluene	1.0	-	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	) ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,1-Trichloroethane (TCA)	0.2	-	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	) ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichloroethene (TCE)	0.005	-	0.0019	ND (0.0005)	0.00551	0.0277	0.00532	0.015	0.0107	0.00598	0.0197	0.0289	0.029	ND (0.0005)	0.026	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000359)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Vinyl Chloride	0.002	-	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	) ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Total Xylene [Calc.]	10.0	-	[ND (0.001)]	[ND (0.001)]	[ND (0.003)]	ND (0.003)	ND (0.003	) ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)	ND (0.003)	[ND (0.001)]	[ND (0.001)]	[ND (0.003)]	ND (0.003)	ND (0.003)	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)

#### Notes:

All concentrations are in milligrams per litre (mg/L).

ND (0.001) - Not detected at concentrations above laboratory reporting limit (LRL) shown in parentheses.

\*Standard based on estimated solubility.

- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- 2. Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P210604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

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TABLE 2

Location	ı	MW00-31	MW00-31	MW00-31	MW00-31	MW00-31	MW00-31	MW00-31	MW00-32	MW00-32	MW00-32	MW00-32	MW00-32	MW00-32	MW00-32
SCN	STANDARD <sup>1</sup>	P0K0452-14	0878-02	0885-02	0903-06	8220-06	9029-05	041020-03	P0K0452-14	0878-01	0885-05	0903-07	8220-07	9029-06	041020-02
Date		10-Nov-00	27-Jul-01	5-Oct-01	19-Sep-02	15-Sep-03	29-May-04	20-Oct-04	10-Nov-00	27-Jul-01	7-Oct-01	19-Sep-02	15-Sep-03	29-May-04	20-Oct-04
QA/QC					_	-								-	
BTEX															
Benzene	0.005	ND (0.0005)	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	_	ND (0.0005)	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	_
Ethylbenzene	0.7	ND (0.0005)	,	, ,	ND (0.0005)	ND (0.0005)	ND (0.0005)	_	ND (0.0005)	ND (0.0005)	` ′	ND (0.0005)	ND (0.0005)	ND (0.0005)	_
Toluene	1.0	ND (0.0005)	` /	` /	ND (0.0005)	ND (0.0005)	ND (0.0005)	_	(/	ND (0.0005)	` /	ND (0.0005)	ND (0.0005)	ND (0.0005)	_
Xylene (total m,p,o)	10.0	ND (0.001)	ND (0.0003)	ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	_	ND (0.001)	` /	ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	_
Try tene (total m,p,o)	1010	1.2 (0.001)	112 (0.001)	112 (0.0000)	112 (0.001)	1.2 (0.001)	1.2 (0.001)		112 (0.001)	112 (0.001)	1.2 (0.0000)	1.2 (0.001)	112 (0.001)	1.2 (0.001)	
Petroleum Hydrocarbons															
Diesel Range Organics (DRO)	1.5	0.626	ND (0.250)	ND (0.125)	ND (0.250)	ND (0.250)	0.420	ND (0.417)	1.28	0.381	0.790	ND (0.250)	ND (0.250)	ND (0.320)	ND (0.417)
Gasoline Range Organics (GRO)	1.3*	0.137	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	0.0851	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)
Residual Range Organics (RRO)	1.1	-	-	, ,	-		0.583	ND (0.500)	-	-		- '	, ,	ND (0.400)	ND (0.500)
Volatile Organic Compounds (VOCs)															
Benzene	0.005	ND (0.001)	ND (0.001)	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethane	3.65	ND (0.001)	ND (0.001)	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1-Dichloroethene	0.007	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
cis-1,2-Dichloroethene	0.07	ND (0.001)	ND (0.001)	ND (0.000187)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000187)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Ethylbenzene	0.7	ND (0.001)	ND (0.001)	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Methylene Chloride	0.005	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Naphthalene	0.7	ND (0.002)	ND (0.002)	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)
Styrene	0.1	ND (0.001)	ND (0.001)	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Tetrachloroethene (PCE)	0.005	ND (0.001)	ND (0.001)	ND (0.00027)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.00027)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Toluene	1.0	ND (0.001)	ND (0.001)	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
1,1,1-Trichloroethane (TCA)	0.2	ND (0.001)	ND (0.001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Trichloroethene (TCE)	0.005	ND (0.001)	ND (0.001)	ND (0.000359)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000359)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Vinyl Chloride	0.002	ND (0.001)	ND (0.001)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Total Xylene [Calc.]	10.0	ND (0.003)	ND (0.003)	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)

#### Notes:

All concentrations are in milligrams per litre (mg/L).

ND (0.001) - Not detected at concentrations above laboratory reporting limit (LRL) shown in parentheses.

- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P2I0604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

TABLE 2

Location		MW00-33	MW00-33	MW00-33	MW00-33	MW00-33	MW00-33	MW00-33	MW00-34	MW00-34	MW00-34	MW00-34	MW00-35	MW00-35	MW00-35
SCN	STANDARD <sup>1</sup>	P0K0452-16	0862-13	0885-04	0903-08	8220-08	9029-07	041020-04	P0K0452-17	0862-09	0885-06	041021-02	P0K0452-18	0862-08	0886-04
Date		10-Nov-00	29-Jun-01	7-Oct-01	19-Sep-02	15-Sep-03	1-Jun-04	20-Oct-04	14-Nov-00	29-Jun-01	7-Oct-01	21-Oct-04	14-Nov-00	29-Jun-01	11-Oct-01
QA/QC															
BTEX															
Benzene	0.005	ND (0.0005)	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-	ND (0.0005)	ND (0.0005)	ND (0.0003)	-	0.0779	0.0335	0.0268
Ethylbenzene	0.7	ND (0.0005)	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-	ND (0.0005)	ND (0.0005)	ND (0.0003)	-	0.0611	0.106	0.09
Toluene	1.0	ND (0.0005)	ND (0.0005)	ND (0.0003)	ND (0.0005)	ND (0.0005)	ND (0.0005)	-	ND (0.0005)	ND (0.0005)	ND (0.0003)	-	0.19	0.0247	0.0227
Xylene (total m,p,o)	10.0	ND (0.001)	ND (0.001)	ND (0.0006)	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.0006)	-	0.761	0.222	0.335
Petroleum Hydrocarbons															
Diesel Range Organics (DRO)	1.5	ND (0.250)	ND (0.250)	ND (0.125)	ND (0.250)	ND (0.250)	ND (0.320)	ND (0.417)	ND (0.250)	ND (0.250)	ND (0.125)	ND (0.500)	5.15	3.25	3.49
Gasoline Range Organics (GRO)	1.3*	ND (0.08)	ND (0.08)	ND (0.05)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	0.0977	ND (0.08)	5.34	2.06	4.07
Residual Range Organics (RRO)	1.1	-	-		-		ND (0.400)	ND (0.500)	-			ND (0.600)	-		
Volatile Organic Compounds (VOCs)															
Benzene	0.005	ND (0.001)	ND (0.001)	ND (0.000121)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000121)	ND (0.001)	0.0599	0.0281	0.0258
1,1-Dichloroethane	3.65	ND (0.001)	ND (0.001)	ND (0.000214)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000214)	ND (0.001)	ND (0.005)	ND (0.002)	ND (0.000428)
1,1-Dichloroethene	0.007	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000151)	ND (0.001)	ND (0.005)	ND (0.002)	ND (0.000302)
cis-1,2-Dichloroethene	0.07	0.00784	0.0108	0.0193	0.00464	0.00243	0.00547	ND (0.001)	0.0197	0.0303	0.0222	0.0144	0.00655	0.0137	0.0073
Ethylbenzene	0.7	ND (0.001)	ND (0.001)	ND (0.000143)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.000143)	ND (0.001)	0.204	0.118	0.118
Methylene Chloride	0.005	ND (0.005)	` /	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	(/	ND (0.005)	ND (0.025)	ND (0.01)	ND (0.004)
Naphthalene	0.7	ND (0.002)	ND (0.002)	ND (0.000104)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.000104)	ND (0.002)	0.0545	0.0361	0.0443
Styrene	0.1	ND (0.001)		ND (0.000154)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)		ND (0.000154)	ND (0.001)	ND (0.005)	` ′	ND (0.000308)
Tetrachloroethene (PCE)	0.005	0.0125	0.00867	0.013	0.00429	0.00227	0.00508	0.00482	0.00469	0.0056	0.00437	0.00283	ND (0.005)	` /	ND (0.00054)
Toluene	1.0	ND (0.001)	` /	ND (0.000115)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	, ,	ND (0.000115)	ND (0.001)	0.0492	0.0219	0.0268
1,1,1-Trichloroethane (TCA)	0.2	ND (0.001)		ND (0.0001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)		ND (0.001)	ND (0.005)	ND (0.002)	ND (0.0002)
Trichloroethene (TCE)	0.005	0.0158	0.0338	0.0338	0.0156	0.0102	0.0106	ND (0.001)	0.0278	0.0578	0.0354	0.0219	ND (0.005)		ND (0.000718)
Vinyl Chloride	0.002	ND (0.001)	` /	ND (0.00031)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	,	ND (0.00031)	ND (0.001)	0.0052	0.00778	0.00392
Total Xylene [Calc.]	10.0	ND (0.003)	ND (0.003)	ND (0.000353)	ND (0.003)	ND (0.003)	ND (0.001)	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.000353)	ND (0.003)	0.763	0.2625	0.441

#### Notes:

All concentrations are in milligrams per litre (mg/L).

ND (0.001) - Not detected at concentrations above laboratory reporting limit (LRL) shown in parentheses.

- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P2I0604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

### Date Printed: 2/21/2005

#### Results of Chemical Analysis - Groundwater Maintenance Yard Shops, Skagway, AK White Pass Yukon Route

TABLE 2

Location		AS-2	AS-2	AS-4	AS-4	AS-6	AS-6	AS-8	AS-8	AS-10	AS-10	AS-10	AS-12	AS-12
SCN	STANDARD <sup>1</sup>	9030-08	041022-07	9030-09	041023-01	9030-10	041023-02	9030-11	041022-08	9031-01	9031-02	041022-09	9031-03	041022-10
Date	:	4-Jun-04	22-Oct-04	4-Jun-04	23-Oct-04	4-Jun-04	23-Oct-04	4-Jun-04	22-Oct-04	9-Jun-04	9-Jun-04	22-Oct-04	9-Jun-04	22-Oct-04
QA/QC	!									FDA	FD			
BTEX														
Benzene	0.005	ND (0.0005)	_	ND (0.0005)	ND (0.0005)	-	ND (0.0005)	_						
Ethylbenzene	0.7	ND (0.0005)	_	ND (0.0005)	ND (0.0005)	_	ND (0.0005)	_						
Toluene	1.0	ND (0.0005)	_	ND (0.0005)	ND (0.0005)	_	ND (0.0005)	_						
Xylene (total m,p,o)	10.0	ND (0.001)	_	ND (0.001)	ND (0.001)	_	ND (0.001)	_						
Tytone (total m,p,o)	1000	1.2 (0.001)		1,2 (0.001)		112 (0.001)		1.2 (0.001)		112 (0.001)	1.2 (0.001)		112 (0.001)	
Petroleum Hydrocarbons														
Diesel Range Organics (DRO)	1.5	ND (0.320)	ND (0.500)	ND (0.320)	ND (0.417)	ND (0.320)	ND (0.500)	ND (0.320)	ND (0.417)	ND (0.320)	ND (0.320)	ND (0.417)	ND (0.320)	ND (0.400)
Gasoline Range Organics (GRO)	1.3*	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)								
Residual Range Organics (RRO)	1.1	ND (0.400)	ND (0.600)	ND (0.400)	ND (0.500)	ND (0.400)	ND (0.600)	ND (0.400)	ND (0.500)	ND (0.400)	ND (0.400)	ND (0.500)	ND (0.400)	ND (0.480)
Volatile Organic Compounds (VOCs)														
Benzene	0.005	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)								
1,1-Dichloroethane	3.65	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)								
1,1-Dichloroethene	0.007	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)								
cis-1,2-Dichloroethene	0.07	0.0046	0.00412	0.00222	0.00208	0.00257	0.00264	ND (0.001)	ND (0.001)	0.0012	0.0013	0.00122	ND (0.001)	ND (0.001)
Ethylbenzene	0.7	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)								
Methylene Chloride	0.005	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)								
Naphthalene	0.7	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)								
Styrene	0.1	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)								
Tetrachloroethene (PCE)	0.005	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)								
Toluene	1.0	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)								
1,1,1-Trichloroethane (TCA)	0.2	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)								
Trichloroethene (TCE)	0.005	0.00762	0.00948	0.00427	0.00525	0.00509	0.00600	ND (0.001)	ND (0.001)	0.00283	0.00287	0.00333	0.00141	0.00232
Vinyl Chloride	0.002	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)								
Total Xylene [Calc.]	10.0	ND (0.001)	ND (0.003)	ND (0.001)	ND (0.001)	ND (0.003)	ND (0.001)	ND (0.003)						

#### Notes:

All concentrations are in milligrams per litre (mg/L).

ND (0.001) - Not detected at concentrations above laboratory reporting limit (LRL) shown in parentheses.

- Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.
- Data reported from Analytical Laboratory & Consultants, Oregan Lab Reports #81714 through 81720 and 81126 through 81133 (Aug. 1997); Analytica Alaska Inc. Order A7-09-046 and Analytical Environmental Laboratory Order 97-09-069 (Sept. 1997); Columbia Analytical Services Inc., Anchorage, AK Service Request Orders A9800683 (Sept. 1998), A9800524 (July 1998), A9900271 and A9900238 (June 1999), A9900715 (Sept. 1999), and A9900854 (Nov. 1999); and North Creek Analytical, Portland, OR Files P005200 and P005488 (May 2000), P0K0452 (Nov. 2000), P1J0346 and P1J0528 (Oct. 2001), P2I0604 (Sept. 2002), P3I0738 (Sept. 2003), P4F0112, P4F0225, and P4F0455 (June 2004), P4J1121, P4J1122, and P4J11123 (Oct. 2004).

Loc	tion	MW97-2	MW97-2	RPD	MW97-6M	MW97-6M	RPD	MW98-1	MW98-1	RPD
	SCN STANDARD <sup>1</sup>	041022-05	041022-06	%	041022-02	041022-03	%	041021-08	041021-09	%
	Date	22-Oct-04	22-Oct-04		22-Oct-04	22-Oct-04		21-Oct-04	21-Oct-04	
QA	/QC	FDA	FD		FDA	FD				
Petroleum Hydrocarbons										
Diesel Range Organics (DRO)	1.5	ND (0.417)	ND (0.400)	nc	ND (0.435)	ND (0.417)	nc	ND (0.500)	ND (0.435)	nc
Gasoline Range Organics (GRO)	1.3*	ND (0.08)	ND (0.08)	nc	ND (0.08)	ND (0.08)	nc	ND (0.08)	ND (0.08)	nc
Residual Range Organics (RRO)	1.1	ND (0.500)	ND (0.480)	nc	ND (0.522)	ND (0.500)	nc	ND (0.600)	ND (0.522)	nc
Volatile Organic Compounds (VOCs)		_								
Benzene	0.005	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc
1,1-Dichloroethane	3.65	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc
1,1-Dichloroethene	0.007	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc
cis-1,2-Dichloroethene	0.07	0.00902	0.00954	6%	0.0109	0.0107	2%	0.013	0.0129	1%
Ethylbenzene	0.7	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc
Methylene Chloride	0.005	ND (0.005)	ND (0.005)	nc	ND (0.005)	ND (0.005)	nc	ND (0.005)	ND (0.005)	nc
Naphthalene	0.7	ND (0.002)	ND (0.002)	nc	ND (0.002)	ND (0.002)	nc	ND (0.002)	ND (0.002)	nc
Styrene	0.1	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc
Tetrachloroethene (PCE)	0.005	0.00239	0.00248	4%	0.00164	0.00166	1%	ND (0.001)	ND (0.001)	nc
Toluene	1.0	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc
1,1,1-Trichloroethane (TCA)	0.2	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc
Trichloroethene (TCE)	0.005	0.0163	0.0173	6%	0.0206	0.0204	1%	0.0289	0.029	0%
Vinyl Chloride	0.002	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc	ND (0.001)	ND (0.001)	nc
Total Xylene [Calc.]	10.0	ND (0.003)	ND (0.003)	nc	ND (0.003)	ND (0.003)	nc	ND (0.003)	ND (0.003)	nc

#### Notes:

All concentrations are in milligrams per litre (mg/L).

ND (0.001) - Not detected at concentrations above laboratory reporting limit (LRL) shown in parentheses.

RPD - Relative Percent Difference

<sup>\*</sup>Standard based on estimated solubility.

Table C of "18 AAC 75, Articles 3 and 9, Oil and Other Hazardous Substances Pollution Control" Regulations as amended through May 2004.

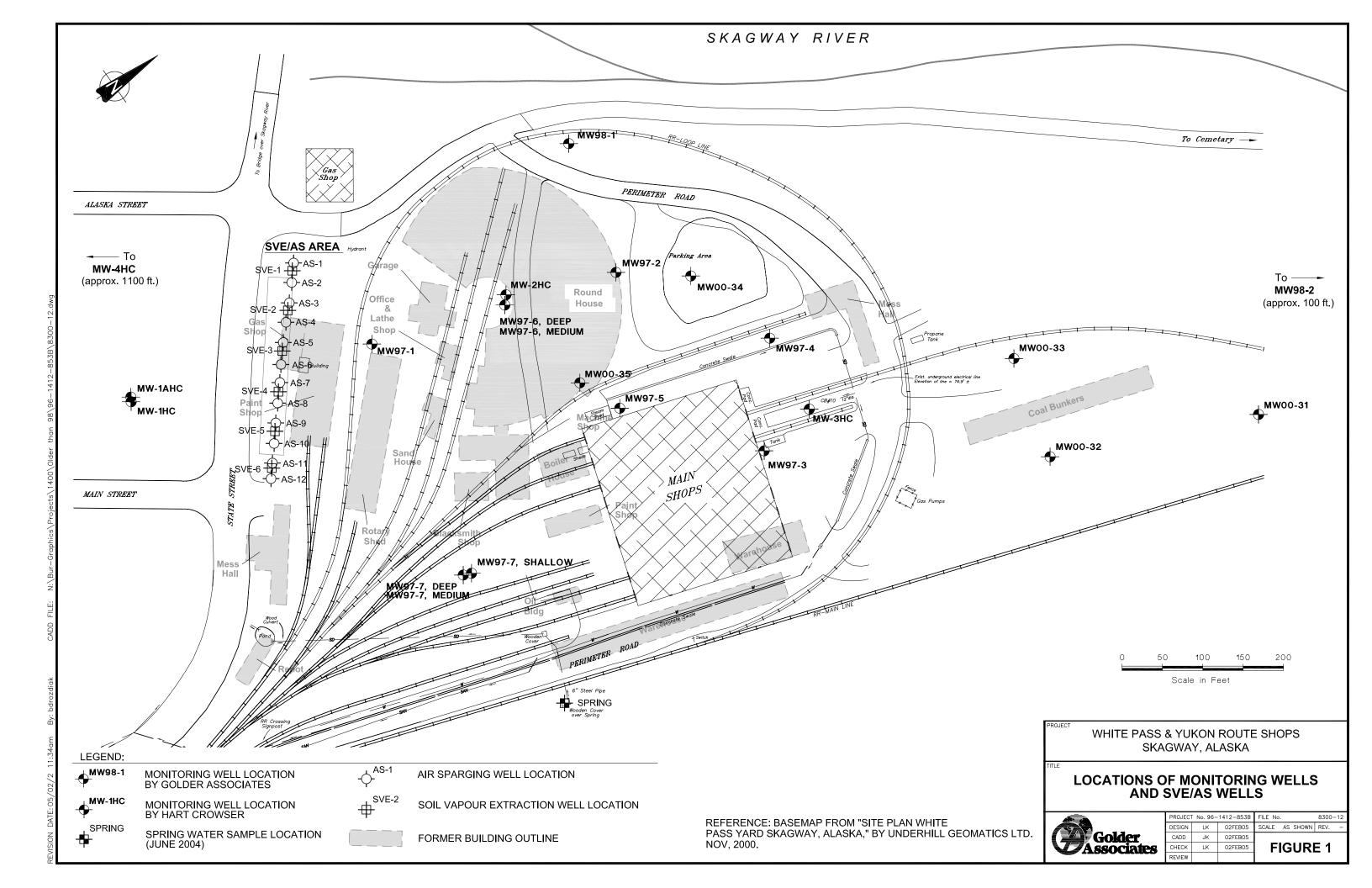
<sup>2.</sup> Data reported from North Creek Analytical, Portland OR Files P4J1122 and P4J1123 (October 2004).

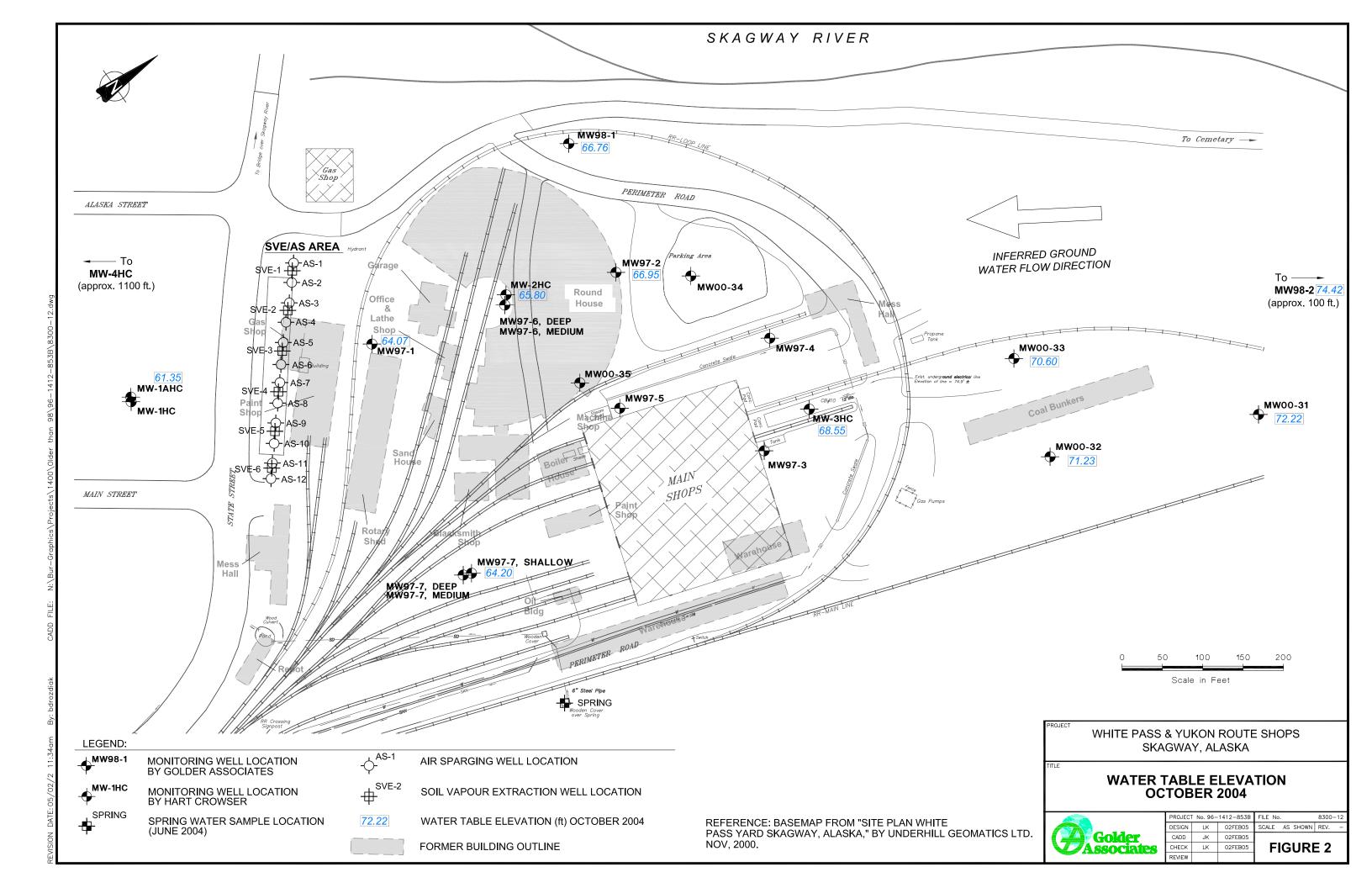
# Results of Mann-Kendall Test for TCE Concentrations in Groundwater January 1999 to October 2004 Maintenance Yard Shops, Skagway, AK White Pass & Yukon Route

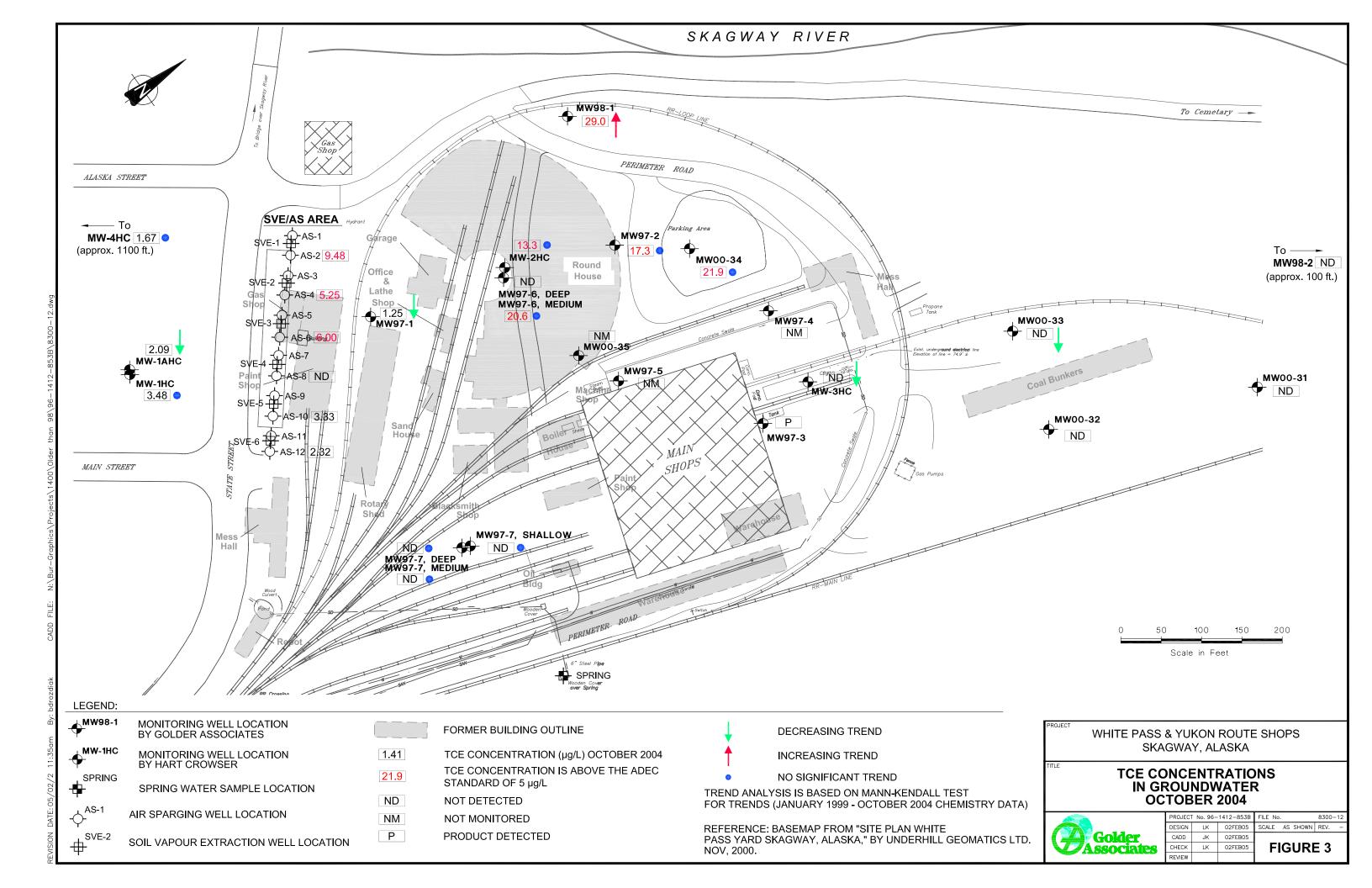
Location	Sample size (n)	Test Statistic (S)	Probability (p) <sup>1</sup>	Result <sup>2</sup>
MW-1AHC (shallow)	11	-33	1%	downward trend
MW-1HC (deep)	11	13	18%	no trend
MW-2HC	10	-3	43%	no trend
MW-3HC	6	-13	1%	downward trend
MW-4HC	9	2	46%	no trend
MW97-1	10	-19	5%	downward trend
MW97-2	10	-13	15%	no trend
MW97-6M	10	-15	11%	no trend
MW97-7S	10	-11	19%	no trend
MW97-7M	10	-8	27%	no trend
MW97-7D	10	-14	13%	no trend
MW98-1	10	25	1%	upward trend
MW00-33	7	-14	3%	downward trend
MW00-34	4	-2	38%	no trend

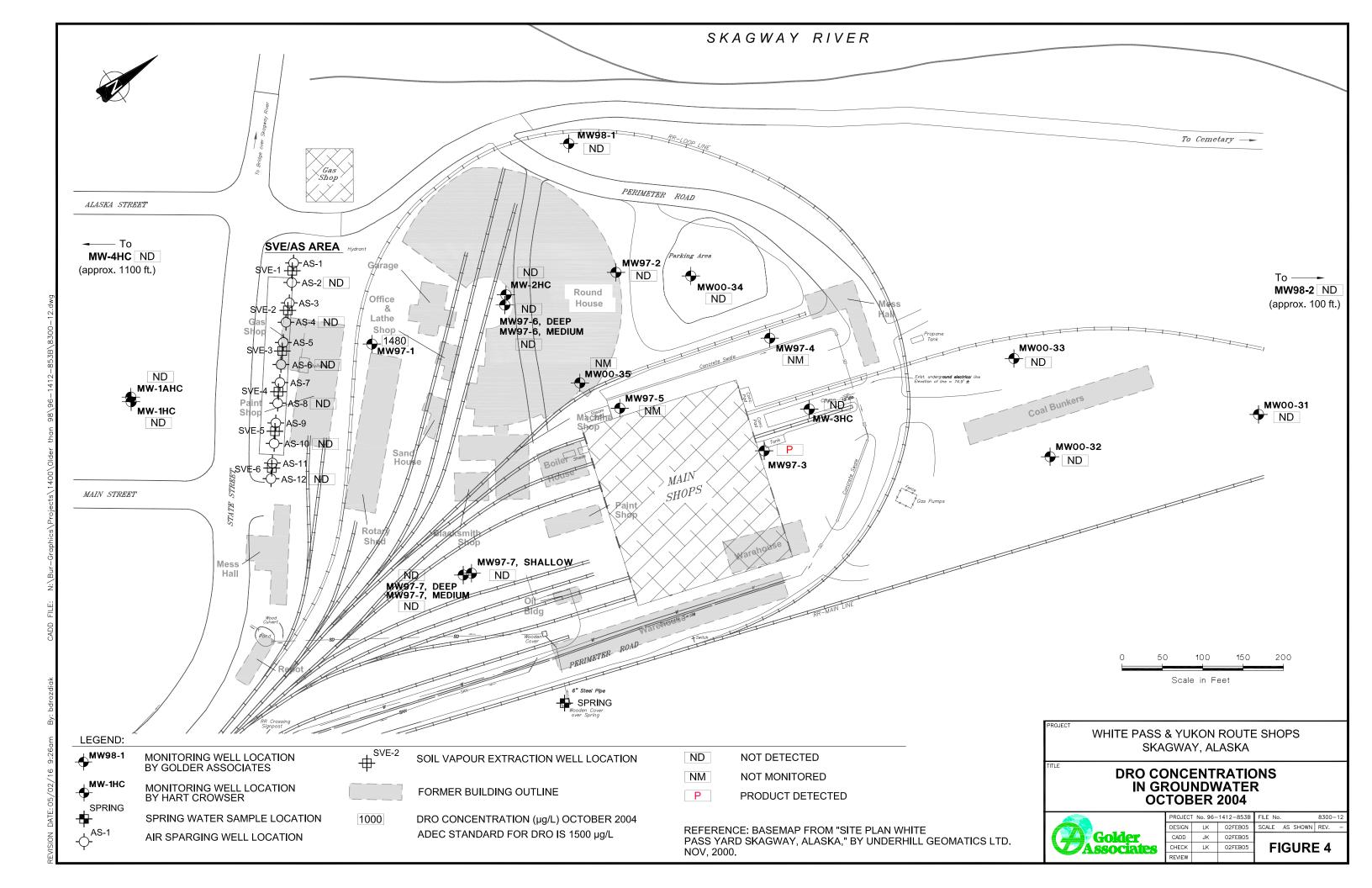
#### **Notes:**

- 1 Probability that the statistical inference of trend is incorrect.
- 2 Locations where the probability (p) was less than or equal to ten percent were indicated to define either a significant upward or downward trend.









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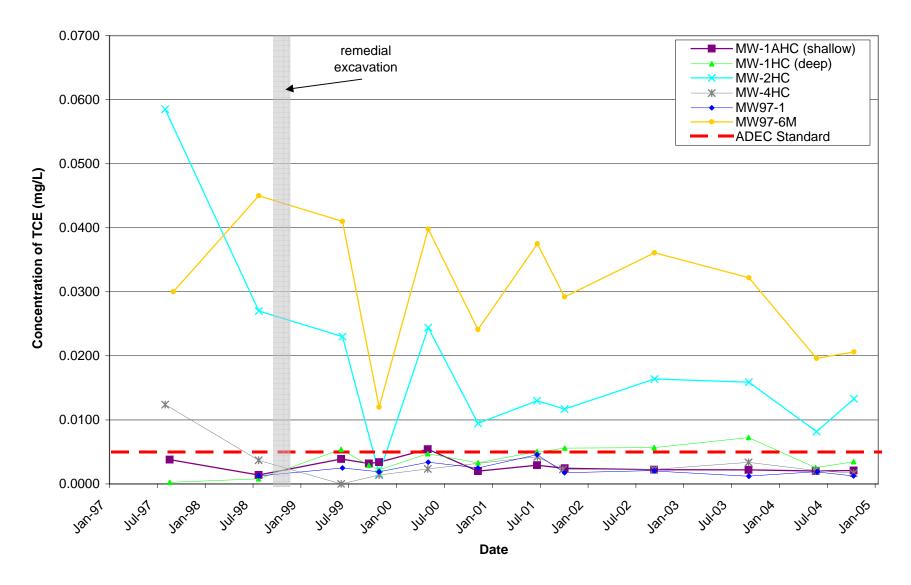


Figure 5 Concentration of TCE in Groundwater over Time

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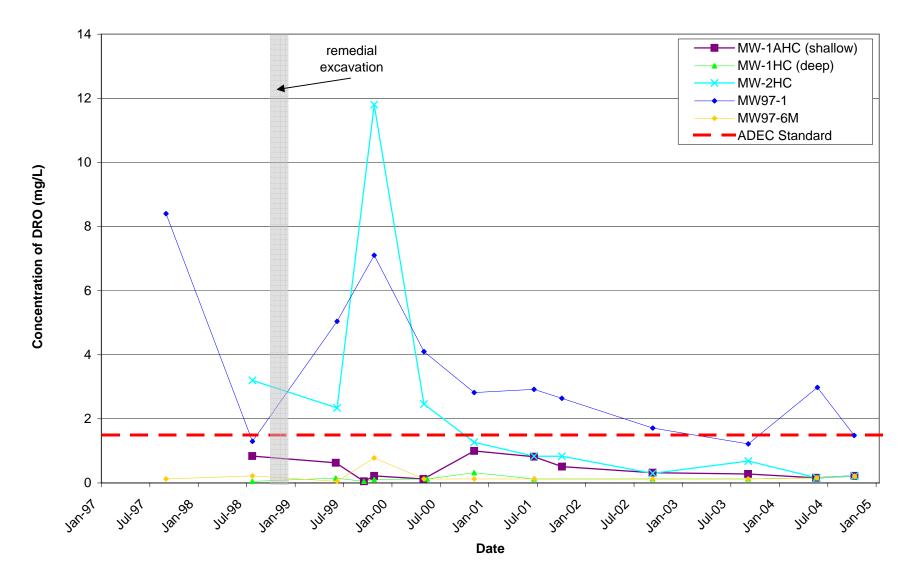


Figure 6 Concentration of DRO in Groundwater over Time

## APPENDIX I LABORATORY CHEMISTRY REPORTS



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

425.420.9200 fax 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 Spokane

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588 Bend

Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119

907.563.9200 fax 907.563.9210

November 08, 2004

Linda Kemp Golder Associates - Canada 500-4260 Still Creek Drive Burnaby, BC/CAN V5C6C6

RE: WP&YR/Shops/Skagway

Enclosed are the results of analyses for samples received by the laboratory on 10/26/04 14:15. The following list is a summary of the NCA Work Orders contained in this report. If you have any questions concerning this report, please feel free to contact me.

<u>Work</u>	<u>Project</u>	<u>ProjectNumber</u>	
P4J1121	WP&YR/Shops/Skagway	96-1412-853B	

Thank You,

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

Mary A. Fritzmann Smith, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network** 



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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:10 Project Manager: Linda Kemp

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
041020-01	P4J1121-01	Water	10/20/04 09:45	10/26/04 14:15
041020-01	P4J1121-01	Water	10/20/04 09:43	10/26/04 14:15
041020-03	P4J1121-03	Water	10/20/04 12:30	10/26/04 14:15
041020-04	P4J1121-04	Water	10/20/04 13:30	10/26/04 14:15
041020-05	P4J1121-05	Water	10/20/04 16:30	10/26/04 14:15
041020-06	P4J1121-06	Water	10/20/04 17:30	10/26/04 14:15



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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:10 Project Manager: Linda Kemp

#### Gasoline Range Organics (C6-C10) per AK101

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-01	Water	041020-01	Sampl	ed: 10/20	/04 09:45						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/29/04 20:40	
Surrogate(s):	4-BFB (FID)		Recovery: 76.2%		Limits: 6	60 - 120 %	"			"	
P4J1121-02	Water	041020-02	Sampl	ed: 10/20	/04 11:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/29/04 21:08	
Surrogate(s):	4-BFB (FID)		Recovery: 76.0%		Limits: 6	60 - 120 %	"			"	
P4J1121-03	Water	041020-03	Sampl	ed: 10/20	/04 12:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/29/04 22:04	
Surrogate(s):	4-BFB (FID)		Recovery: 74.6%		Limits: 6	60 - 120 %	"			"	
P4J1121-04	Water	041020-04	Sampl	ed: 10/20	/04 13:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/29/04 22:31	
Surrogate(s):	4-BFB (FID)		Recovery: 74.6%		Limits: 6	50 - 120 %	"			"	
P4J1121-05	Water	041020-05	Sampl	ed: 10/20	/04 16:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/29/04 22:59	
Surrogate(s):	4-BFB (FID)		Recovery: 75.0%		Limits: 6	50 - 120 %	"			"	
P4J1121-06	Water	041020-06	Sampl	ed: 10/20	/04 17:30						
Gasoline Range	Organics	AK101 GRO	85.8		80.0	ug/l	1x	4101503	10/29/04	10/29/04 23:27	
Surrogate(s):	4-BFB (FID)		Recovery: 81.2%		Limits: 6	60 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:10 Project Manager: Linda Kemp

#### Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 Low Volume North Creek Analytical - Portland

		North Citt	K Allaly	iicai - I oi	tianu					
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-01 Water	041020-01	Sampl	led: 10/20	)/04 09:45						
Diesel Range Organics	AK102/103	ND		0.435	mg/l	1x	4101442	10/29/04	10/29/04 18:57	
Residual Range Organics	"	ND		0.522	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadeca	ne	Recovery: 108%		Limits: .	50 - 150 %	"			"	
Triacontane		104%			50 - 150 %	"			"	
P4J1121-02 Water	041020-02	Sampl	led: 10/20	)/04 11:30	ı					
Diesel Range Organics	AK102/103	ND		0.417	mg/l	1x	4101442	10/29/04	10/29/04 19:35	
Residual Range Organics	"	ND		0.500	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadeca	ne	Recovery: 109%		Limits: .	50 - 150 %	"			"	
Triacontane		105%		-	50 - 150 %	"			"	
P4J1121-03 Water	041020-03	Sampl	led: 10/20	0/04 12:30	ı					
Diesel Range Organics	AK102/103	ND		0.417	mg/l	1x	4101442	10/29/04	10/29/04 20:13	
Residual Range Organics	"	ND		0.500	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadeca	ne	Recovery: 89.8%		Limits: .	50 - 150 %	"			"	
Triacontane		85.2%			50 - 150 %	"			"	
P4J1121-04 Water	041020-04	Sampl	led: 10/20	)/04 13:30	ı					
Diesel Range Organics	AK102/103	ND		0.417	mg/l	1x	4101442	10/29/04	10/29/04 20:51	
Residual Range Organics	H .	ND		0.500	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecar	ne	Recovery: 94.0%		Limits: .	50 - 150 %	"			"	

50 - 150 %

120%

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Triacontane



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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:10 Project Manager: Linda Kemp

#### Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 Low Volume North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-05	Water	041020-05	Sample	ed: 10/20	0/04 16:30						
Diesel Range Or	rganics	AK102/103	ND		0.417	mg/l	1x	4101442	10/29/04	10/29/04 21:30	
Residual Range	-	"	ND		0.500	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 104%		Limits: 5	50 - 150 %	"			"	
0 ()	Triacontane		98.3%		5	50 - 150 %	"			"	
P4J1121-06	Water	041020-06	Sample	ed: 10/20	0/04 17:30						
Diesel Range O	rganics	AK102/103	1.48		0.435	mg/l	1x	4101442	10/29/04	10/29/04 22:08	
Residual Range	Organics	"	ND		0.522	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 83.7%		Limits: 5	50 - 150 %	"			"	
	Triacontane		107%		5	0 - 150 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

#### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-01RE1 Water	041020-01	Samj	oled: 10/20	/04 09:45	;					
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110071	11/02/04	11/02/04 14:18	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	"	ND		10.0	"	"	"	"	"	
n-Butylbenzene	"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	11	ND		1.00	"	"	"	"	"	
Carbon disulfide	11	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	11	ND		1.00	"	"	"	"	"	
Chlorobenzene	"	ND		1.00	"	"	"	"	"	
Chloroethane	"	ND		1.00	"	"	"	"	"	
Chloroform	11	ND		1.00	"	"	"	"	"	
Chloromethane	11	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	11	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	n .	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	n .	ND		5.00	"	"	"	"	"	
Dibromochloromethane	n .	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	n .	ND		1.00	"	"	"	"	"	
Dibromomethane	n .	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	n .	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	n .	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	n .	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	n .	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	n .	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	11	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	n .	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	n .	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	n .	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	n .	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	n .	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	n .	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	n .	ND		1.00	"	"	"	"	"	
Ethylbenzene	n .	ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND		4.00	"	"	"	"	"	
2-Hexanone	"	ND		10.0	"	"	"	"	"	
Isopropylbenzene	n .	ND		2.00	"	"	"	"	"	

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-01RE1 Water	041020-01	Sampl	ed: 10/2	0/04 09:45	i					
p-Isopropyltoluene	EPA 8260B	ND		2.00	ug/l	1x	4110071	11/02/04	11/02/04 14:18	
4-Methyl-2-pentanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND		1.00	"	"	"	"	"	
Methylene chloride	"	ND		5.00	"	"	"	"	"	
Naphthalene	"	ND		2.00	"	"	"	"	"	
n-Propylbenzene	"	ND		1.00	"	"	"	"	"	
Styrene	"	ND		1.00	"	"	"	"	"	
1,1,2-Tetrachloroethane	m .	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	m .	ND		1.00	"	"	"	"	"	
Tetrachloroethene	"	ND		1.00	"	"	"	"	"	
Toluene	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloroethane	m .	ND		1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND		1.00	"	"	"	"	"	
Trichloroethene	"	ND		1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND		1.00	"	"	"	"	"	
Vinyl chloride	"	ND		1.00	"	"	"	"	"	
o-Xylene	"	ND		1.00	"	"	"	"	"	
m,p-Xylene	"	ND		2.00	"	"	"	"	"	
Surrogate(s): 4-BFB		Recovery: 94.0%		Limits: 7	75 - 120 %	"			"	
1,2-DCA-d4		114%			77 - 129 %	"			"	
Dibromofluoromethane		110%			80 - 121 %	"			"	
Toluene-d8		100%		8	80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-02	Water	041020-02	Samp	oled: 10/20	/04 11:30						
Acetone		EPA 8260B	ND		25.0	ug/l	1x	4101521	10/31/04	10/31/04 14:51	
Benzene		"	ND		1.00	"	"	"	"	"	
Bromobenzene		"	ND		1.00	"	"	"	"	"	
Bromochlorometha	ine	"	ND		1.00	"	"	"	"	"	
Bromodichloromet	hane	"	ND		1.00	"	"	"	"	"	
Bromoform		"	ND		1.00	"	"	"	"	"	
Bromomethane		"	ND		5.00	"	"	"	"	"	
2-Butanone		"	ND		10.0	"	"	"	"	"	
n-Butylbenzene		"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene		"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene		"	ND		1.00	"	"	"	"	"	
Carbon disulfide		"	ND		10.0	"	"	"	"	"	
Carbon tetrachlorid	le	"	ND		1.00	"	"	"	"	"	
Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chloroethane		"	ND		1.00	"	"	"	"	"	
Chloroform		"	ND		1.00	"	"	"	"	"	
Chloromethane		"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene		n .	ND		1.00	"	"	"	"	"	
4-Chlorotoluene		n .	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chlo	oropropane	n .	ND		5.00	"	"	"	"	"	
Dibromochloromet	hane	n .	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	;	n .	ND		1.00	"	"	"	"	"	
Dibromomethane		n .	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzer	ne	n .	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzer	ne	n .	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzer	ne	n .	ND		1.00	"	"	"	"	"	
Dichlorodifluorome		H .	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	;	H .	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	;	n .	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	;	n .	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroeth	iene	H .	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloroe		H .	ND		1.00	"	"	"	"	"	
1,2-Dichloropropar		H .	ND		1.00	"	"	"	"	"	
1,3-Dichloropropar		H .	ND		1.00	"	"	"	"	"	
2,2-Dichloropropar		n .	ND		1.00	"	"	"	"	"	
1,1-Dichloroproper		"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropro		n .	ND		1.00	"	"	"	"	"	
trans-1,3-Dichlorop		n .	ND		1.00	"	"	"	"	"	
Ethylbenzene		"	ND		1.00	"	"	"	"	"	
Hexachlorobutadie	ne	"	ND		4.00	"	"	"	"	"	
2-Hexanone		"	ND		10.0	"	"	"	"	•	
Isopropylbenzene		"	ND		2.00	"	"	"	"	•	
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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-02	Water	041020-02	Sampl	ed: 10/20	)/04 11:30	)					
p-Isopropyltolu	ene	EPA 8260B	ND		2.00	ug/l	1x	4101521	10/31/04	10/31/04 14:51	
4-Methyl-2-pen	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzen	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach		"	ND		1.00	"	"	"	"	"	
Tetrachloroethe		"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroethene		"	ND		1.00	"	"	"	"	"	
Trichlorofluoro		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro		"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		m .	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 96.0%		Limits:	75 - 120 %	"			"	<del></del>
5 ()	1,2-DCA-d4		104%			77 - 129 %	"			"	
	Dibromofluoromethane	2	100%			80 - 121 %	"			"	
	Toluene-d8		100%			80 - 120 %	"			"	

North Creek Analytical - Portland



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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-03	Water	041020-03	Samı	oled: 10/20	/04 12:30						
Acetone		EPA 8260B	ND		25.0	ug/l	1x	4101521	10/31/04	10/31/04 15:18	
Benzene		"	ND		1.00	"	"	"	"	"	
Bromobenzene		"	ND		1.00	"	"	"	"	"	
Bromochlorometh	ane	"	ND		1.00	"	"	"	"	"	
Bromodichlorome	thane	"	ND		1.00	"	"	"	"	"	
Bromoform		"	ND		1.00	"	"	"	"	"	
Bromomethane		"	ND		5.00	"	"	"	"	"	
2-Butanone		II .	ND		10.0	"	"	"	"	"	
n-Butylbenzene		II .	ND		5.00	"	"	"	"	"	
sec-Butylbenzene		II .	ND		1.00	"	"	"	"	"	
tert-Butylbenzene		II .	ND		1.00	"	"	"	"	"	
Carbon disulfide		"	ND		10.0	"	"	"	"	"	
Carbon tetrachlorie	de	"	ND		1.00	"	"	"	"	"	
Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chloroethane		"	ND		1.00	"	"	"	"	"	
Chloroform		"	ND		1.00	"	"	"	"	"	
Chloromethane		"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-ch	loropropane	"	ND		5.00	"	"	"	"	"	
Dibromochlorome		"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethan	e	"	ND		1.00	"	"	"	"	"	
Dibromomethane		"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenze	ene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenze		"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenze		"	ND		1.00	"	"	"	"	"	
Dichlorodifluorom		"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethan		"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethan		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethen		"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroet		"	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloro		"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropa		"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroprope		m .	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropr		n	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloro		n	ND		1.00	"	"	"	"	"	
Ethylbenzene	p.opene	m .	ND		1.00	"	"	"	"	"	
Hexachlorobutadie	ene	"	ND		4.00	"	"	"	"	"	
2-Hexanone		"	ND		10.0	"	"	"	"	"	
Isopropylbenzene		"	ND		2.00	"	"	"	"	"	
isopropyidenzene			ND		2.00						

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-03	Water	041020-03	Sampl	ed: 10/20	0/04 12:30	l					
p-Isopropyltoluen	ie	EPA 8260B	ND		2.00	ug/l	1x	4101521	10/31/04	10/31/04 15:18	
4-Methyl-2-penta	none	"	ND		5.00	"	"	"	"	"	
Methyl tert-butyl	ether	"	ND		1.00	"	"	"	"	"	
Methylene chloric	de	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzene		"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrachlor	roethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrachlor	roethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroethene	2	"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichlorobe	nzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichlorobe		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloroeth	nane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloroeth		"	ND		1.00	"	"	"	"	"	
Trichloroethene		"	ND		1.00	"	"	"	"	"	
Trichlorofluorom	ethane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloropre	opane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethylbe	•	"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethylbe		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 95.0%		Limits:	75 - 120 %	"			"	
	1,2-DCA-d4		116%			77 - 129 %	"			"	
1	Dibromofluoromethane		118%		d	80 - 121 %	"			"	
2	Toluene-d8		108%		d	80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

#### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-04 W	ater 041020-04	Sam	pled: 10/20	/04 13:30						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4101521	10/31/04	10/31/04 15:44	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	"	ND		10.0	"	"	"	"	"	
n-Butylbenzene	"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	n .	ND		1.00	"	"	"	"	"	
Carbon disulfide	n .	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	n .	ND		1.00	"	"	"	"	"	
Chlorobenzene	"	ND		1.00	"	"	"	"	"	
Chloroethane	"	ND		1.00	"	"	"	"	"	
Chloroform	"	ND		1.00	"	"	"	"	"	
Chloromethane	"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropro	opane "	ND		5.00	"	"	"	"	"	
Dibromochloromethane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND		1.00	"	"	"	"	"	
Dibromomethane	n .	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	n .	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	e "	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	n .	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	, "	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	n .	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	n .	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	n .	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	II .	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	II .	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloroproper		ND		1.00	"	"	"	"	"	
Ethylbenzene	"	ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND		4.00	"	"	"	"	"	
2-Hexanone	"	ND		10.0	"	"	"	"	"	
Isopropylbenzene	n .	ND		2.00	"	"	"	"	"	

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-04	Water	041020-04	Sample	ed: 10/20	0/04 13:30	)					·
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4101521	10/31/04	10/31/04 15:44	
4-Methyl-2-per		"	ND		5.00	"	"	"	"	"	
Methyl tert-but	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	m .	ND		1.00	"	"	"	"	"	
Styrene		m .	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	m .	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	n .	ND		1.00	"	"	"	"	"	
Tetrachloroeth	nene	"	4.82		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroethene		"	ND		1.00	"	"	"	"	"	
Trichlorofluoro	methane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 97.0%		Limits:	75 - 120 %	"			"	
- ','	1,2-DCA-d4		104%			77 - 129 %	"			"	
	Dibromofluoromethane		105%			80 - 121 %	"			"	
	Toluene-d8		99.0%			80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-05	Water	041020-05	Samı	oled: 10/20	/04 16:30						
Acetone		EPA 8260B	ND		25.0	ug/l	1x	4101521	10/31/04	10/31/04 16:11	
Benzene		"	ND		1.00	"	"	"	"	"	
Bromobenzene		"	ND		1.00	"	"	"	"	"	
Bromochlorometha	ane	"	ND		1.00	"	"	"	"	"	
Bromodichlorome	thane	"	ND		1.00	"	"	"	"	"	
Bromoform		"	ND		1.00	"	"	"	"	"	
Bromomethane		"	ND		5.00	"	"	"	"	"	
2-Butanone		"	ND		10.0	"	"	"	"	"	
n-Butylbenzene		"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene		"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene		"	ND		1.00	"	"	"	"	"	
Carbon disulfide		"	ND		10.0	"	"	"	"	"	
Carbon tetrachlorie	de	"	ND		1.00	"	"	"	"	"	
Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chloroethane		"	ND		1.00	"	"	"	"	"	
Chloroform		"	ND		1.00	"	"	"	"	"	
Chloromethane		"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chl	loropropane	"	ND		5.00	"	"	"	"	"	
Dibromochlorome		"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethan		"	ND		1.00	"	"	"	"	"	
Dibromomethane		"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenze	ne	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenze		"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenze		"	ND		1.00	"	"	"	"	"	
Dichlorodifluorom		"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethan		"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethan		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethen		"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroetl		"	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloro		"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropa		"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroprope		n .	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropr		II .	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloro		II .	ND		1.00	"	"	"	"	"	
Ethylbenzene	p.opene	m .	ND		1.00	"	"	"	"	"	
Hexachlorobutadie	ene	"	ND		4.00	"	"	"	"	"	
2-Hexanone		"	ND		10.0	"	"	"	"	"	
Isopropylbenzene		"	ND		2.00	"	"	"	"	"	
isopropyrociizelle			ND		2.00						

North Creek Analytical - Portland

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-05	Water	041020-05	Sample	ed: 10/20	)/04 16:30	)					
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4101521	10/31/04	10/31/04 16:11	
4-Methyl-2-per		"	ND		5.00	"	"	"	"	"	
Methyl tert-but	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	m .	ND		1.00	"	"	"	"	"	
Styrene		m .	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	m .	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	n .	ND		1.00	"	"	"	"	"	
Tetrachloroeth	nene	"	2.94		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroethene		"	ND		1.00	"	"	"	"	"	
Trichlorofluoro	methane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 92.0%		Limits:	75 - 120 %	"			"	
- ','	1,2-DCA-d4		106%			77 - 129 %	"			"	
	Dibromofluoromethane		106%			80 - 121 %	"			"	
	Toluene-d8		98.5%			80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

#### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-06 Water	041020-06	Samp	led: 10/20	/04 17:30	· ·					
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4101521	10/31/04	10/31/04 16:38	
Benzene	"	1.15		1.00	"	"	"	"	"	
Bromobenzene	m .	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	"	ND		10.0	"	"	"	"	"	
n-Butylbenzene	"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND		1.00	"	"	"	"	"	
Carbon disulfide	"	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND		1.00	"	"	"	"	"	
Chlorobenzene	"	ND		1.00	"	"	"	"	"	
Chloroethane	"	ND		1.00	"	"	"	"	"	
Chloroform	"	ND		1.00	"	"	"	"	"	
Chloromethane	"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	"	"	"	
Dibromochloromethane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND		1.00	"	"	"	"	"	
Dibromomethane	m .	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	m .	5.59		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	m .	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	m .	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	m .	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	m .	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	m .	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	m .	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	m .	ND		1.00	"	"	"	"	"	
Ethylbenzene	"	5.84		1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND		4.00	"	"	"	"	"	
2-Hexanone	"	ND		10.0	"	"	"	"	"	
Isopropylbenzene	"	ND		2.00	"	"	"	"	"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1121-06	Water	041020-06	Sample	ed: 10/20	)/04 17:30						
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4101521	10/31/04	10/31/04 16:38	
4-Methyl-2-per	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenze	ene	"	1.34		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach		"	ND		1.00	"	"	"	"	"	
Tetrachloroethe		"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro	ethane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro	ethane	"	ND		1.00	"	"	"	"	"	
Trichloroether		"	1.25		1.00	"	"	"	"	"	
Trichlorofluoro	methane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro		"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	n .	"	"	"	"	
Vinyl chloride		"	1.49		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 102%		Limits:	75 - 120 %	"			"	
3 - (-)	1,2-DCA-d4		106%			77 - 129 %	"			"	
	Dibromofluoromethane		109%			80 - 121 %	"			"	
	Toluene-d8		98.5%		8	80 - 120 %	"			"	

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

Recovery: 74.6%

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:10 Project Manager: Linda Kemp

<u>Ga</u>	soline Ran	ge Organi	ics (C6-C10) North Cr	_			-	<u>Ouality</u>	Con	trol Re	<u>esults</u>			
QC Batch: 4101503	Wate	r Preparat	ion Method:	EPA 503	30B									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	RPD (	Limit	ts) Analyzed	Notes
Blank (4101503-BLK1)								Extr	acted:	10/29/04	16:20			
Gasoline Range Organics	AK101 GRO	ND		80.0	ug/l	1x							10/29/04 16:28	
Surrogate(s): 4-BFB (FID)		Recovery:	76.0%	Limits.	: 60-120%	"							10/29/04 16:28	
LCS (4101503-BS1)								Extr	acted:	10/29/04	16:20			
Gasoline Range Organics	AK101 GRO	978		80.0	ug/l	1x		1000	97.8%	(60-120)			10/29/04 17:23	
Surrogate(s): 4-BFB (FID)		Recovery:	85.0%	Limits.	: 60-120%	"							10/29/04 17:23	
LCS Dup (4101503-BSD1)								Extr	acted:	10/29/04	16:20			
Gasoline Range Organics	AK101 GRO	1060		80.0	ug/l	1x		1000	106%	(60-120)	8.05%	(20)	10/29/04 17:51	
Surrogate(s): 4-BFB (FID)		Recovery:	83.4%	Limits.	60-120%	"							10/29/04 17:51	
Duplicate (4101503-DUP1)				QC Source:	P4J1080-	)1		Extr	acted:	10/29/04	16:20			
Gasoline Range Organics	AK101 GRO	13200		800	ug/l	10x	13300				0.755%	(50)	10/29/04 18:48	
Surrogate(s): 4-BFB (FID)		Recovery:	87.4%	Limits	: 60-120%	lx							10/29/04 18:48	
Duplicate (4101503-DUP2)				QC Source:	P4J1122-	)1		Extr	acted:	10/29/04	16:20			
Gasoline Range Organics	AK101 GRO	18.6		80.0	ug/l	1x	ND				NR	(50)	10/30/04 00:22	

Limits: 60-120%

North Creek Analytical - Portland

Surrogate(s): 4-BFB (FID)

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10/30/04 00:22



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Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 phone: (907) 563.9200 fax: (907) 563.9210

WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 Project Manager: 11/08/04 17:10 Linda Kemp

#### l Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 Low Volume - Laboratory Quality Control Re North Creek Analytical - Portland

QC Batch: 4101442	Wate	r Preparat	ion Method:	EPA 35	10 Fuels									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	RPD (I	Limits)	Analyzed	Notes
Blank (4101442-BLK1)								Ext	racted:	10/29/04	06:59			
Diesel Range Organics	AK102/103	ND		0.500	mg/l	1x						10	0/29/04 17:02	
Residual Range Organics	"	ND		0.600	"	"							"	
Surrogate(s): 1-Chlorooctadecane Triacontane		Recovery:	96.0% 95.6%	Limits:	50-150% 50-150%	"							10/29/04 17:02	
LCS (4101442-BS1)								Ext	racted:	10/29/04	06:59			
Diesel Range Organics	AK102/103	5.33		0.500	mg/l	1x		5.00	107%	(75-125)		1	1/01/04 20:01	
Residual Range Organics	"	3.57		0.600	"	"		3.01	119%	(60-120)			"	
Surrogate(s): 1-Chlorooctadecane Triacontane		Recovery:	74.2% 91.7%	Limits:	50-150% 50-150%	"							11/01/04 20:01	
LCS Dup (4101442-BSD1)								Ext	racted:	10/29/04	06:59			
Diesel Range Organics	AK102/103	5.31		0.500	mg/l	1x		5.00	106%	(75-125)	0.376%	(20) 1	1/01/04 20:39	
Residual Range Organics	"	3.30		0.600	"	"		3.01	110%	(60-120)	7.86%	"	"	
Surrogate(s): 1-Chlorooctadecane Triacontane		Recovery:	75.8% 94.0%	Limits:	50-150% 50-150%	"							11/01/04 20:39	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:10 Project Manager: Linda Kemp

#### Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

QC Batch: 4101521	Water	Preparation	Method:	EPA 5	030B									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limit	ts) Analyzed	Notes
Blank (4101521-BLK1)										10/31/04				
Acetone	EPA 8260B	ND		25.0	ug/l	1x							10/31/04 11:18	
Benzene	"	ND		1.00	"	"							"	
Bromobenzene	"	ND		1.00	"	"							"	
Bromochloromethane	"	ND		1.00	"	"							"	
Bromodichloromethane	"	ND		1.00	"	"							"	
Bromoform	"	ND		1.00	"	"							"	
Bromomethane	"	ND		5.00	"	"							"	
2-Butanone	"	ND		10.0	"	"							"	
n-Butylbenzene	"	ND		5.00	"	"							"	
sec-Butylbenzene	"	ND		1.00	"	"							"	
tert-Butylbenzene	"	ND		1.00	"	"							"	
Carbon disulfide	"	ND		10.0	"	"							"	
Carbon tetrachloride	"	ND		1.00	"	"							"	
Chlorobenzene	"	ND		1.00	"	"							"	
Chloroethane	"	ND		1.00	"	"							"	
Chloroform	"	ND		1.00	"	"							"	
Chloromethane	"	ND		5.00	"	"							"	
2-Chlorotoluene	"	ND		1.00	"	"							"	
4-Chlorotoluene	"	ND		1.00	"	"							"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"							"	
Dibromochloromethane	"	ND		1.00	"	"							"	
1,2-Dibromoethane	"	ND		1.00	"	"							"	
Dibromomethane	"	ND		1.00	"	"							"	
1,2-Dichlorobenzene	"	ND		1.00	"	"							"	
1,3-Dichlorobenzene	"	ND		1.00	"	"							"	
1,4-Dichlorobenzene	"	ND		1.00	"	"							"	
Dichlorodifluoromethane	"	ND		5.00	"	"							"	
1,1-Dichloroethane	"	ND		1.00	"	"							"	
1,2-Dichloroethane	"	ND		1.00	"	"							"	
1,1-Dichloroethene	"	ND		1.00	"	"							"	
cis-1,2-Dichloroethene	"	ND		1.00	"	"							"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"							"	
1,2-Dichloropropane	"	ND		1.00	"	"							"	
1,3-Dichloropropane	"	ND		1.00	"	"							"	
2,2-Dichloropropane	"	ND		1.00	"	"							"	
1,1-Dichloropropene	"	ND		1.00	"	"							"	
cis-1,3-Dichloropropene	"	ND		1.00	"	"							"	
trans-1,3-Dichloropropene	"	ND		1.00	"	"							"	
Ethylbenzene	"	ND		1.00	"	"							"	
Hexachlorobutadiene	"	ND		4.00	"	"							"	
2-Hexanone	"	ND		10.0	"	"							"	
2-11CAGHOHC		ND		10.0			-			-				

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

104%

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:10 Project Manager: Linda Kemp

#### Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

QC Batch: 4101521 Water Preparation Method: **EPA 5030B** REC (Limits) Spike RPD (Limits) Analyzed Source Method MDL\* MRL Analyte Result Notes Result Blank (4101521-BLK1) 10/31/04 08:44 Extracted: EPA 8260B 10/31/04 11:18 Isopropylbenzene ND 2.00 ug/l 1xp-Isopropyltoluene ND 2.00 4-Methyl-2-pentanone ND 5.00 ND 1.00 Methyl tert-butyl ether Methylene chloride ND 5.00 Naphthalene ND 2.00 ND 1.00 n-Propylbenzene ND Styrene 1.00 1,1,1,2-Tetrachloroethane ND 1.00 1,1,2,2-Tetrachloroethane ND 1.00 ND 1.00 Tetrachloroethene Toluene ND 1.00 ND 1.00 1,2,3-Trichlorobenzene ND 1.00 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane ND 1.00 1,1,2-Trichloroethane ND 1.00 Trichloroethene ND 1.00 1.00 Trichlorofluoromethane ND 1,2,3-Trichloropropane ND 1.00 1,2,4-Trimethylbenzene ND 1.00 1,3,5-Trimethylbenzene ND 1.00 Vinyl chloride ND 1.00 o-Xylene ND 1.00 2.00 m,p-Xylene 10/31/04 11:18 Surrogate(s): 4-BFB 92.5% Limits: 75-120% Recovery: 1,2-DCA-d4 114% 77-129% 112% Dibromofluoromethane80-121%

80-120%

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Toluene-d8



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WP&YR/Shops/Skagway

Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:10 Project Manager: Linda Kemp

#### Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

QC Bato	ch: 4101521 War	ter Preparat	ion Method:	EPA 50	30B								
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spik Amt	e % (Limits)	RPD (	Limits	Analyzed	Not
LCS (410152	21-BS1)							Ex	tracted: 10/31/04	08:44			
Benzene	EPA 8260B	19.4		1.00	ug/l	1x		20.0	97.0% (80-120)			10/31/04 09:31	
Chlorobenzene	"	17.9		1.00	"	"		"	89.5% (80-124)			"	
1,1-Dichloroethe	ene "	16.7		1.00	"	"		"	83.5% (78-120)			"	
Toluene	"	19.3		1.00	"	"		"	96.5% (80-124)			"	
Trichloroethene	"	19.7		1.00	"	"		"	98.5% (80-132)			"	
Surrogate(s):	4-BFB	Recovery:	116%	Limits	: 75-120%	"						10/31/04 09:31	,
	1,2-DCA-d4		104%		77-129%	"						"	
	Dibromofluoromethane		97.5%		80-121%	"						"	
	Toluene-d8		101%		80-120%	"						"	
Matrix Spike	(4101521-MS1)			QC Source:	P4J0991-0	)1		Ex	tracted: 10/31/04	08:44			
Benzene	EPA 8260B	18.6		1.00	ug/l	1x	ND	20.0	93.0% (80-124)			10/31/04 09:58	
Chlorobenzene	"	18.3		1.00	"	"	ND	"	90.8% (72.9-134)			"	
1,1-Dichloroethe	ene "	17.1		1.00	"	"	ND	"	85.5% (79.3-127)			"	
Toluene	"	16.6		1.00	"	"	ND	"	83.0% (79.7-131)			"	
Γrichloroethene	H .	17.9		1.00	"	"	ND	"	89.5% (68.4-130)			"	
Surrogate(s):	4-BFB	Recovery:	99.5%	Limits	: 75-120%	"						10/31/04 09:58	}
	1,2-DCA-d4		105%		77-129%	"						"	
	Dibromofluoromethane		97.0%		80-121%	"						"	
	Toluene-d8		96.5%		80-120%	"						"	
Matrix Spike	Dup (4101521-MSD1)			QC Source:	P4J0991-0	)1		Ex	tracted: 10/31/04	08:44			
Benzene	EPA 8260B	19.1		1.00	ug/l	1x	ND	20.0	95.5% (80-124)	2.65%	(25)	10/31/04 10:25	
Chlorobenzene	"	18.9		1.00	"	"	ND	"	93.8% (72.9-134)	3.23%	"	"	
1,1-Dichloroethe	ene "	18.0		1.00	"	"	ND	"	90.0% (79.3-127)	5.13%	"	"	
Toluene	n .	17.1		1.00	"	"	ND	"	85.5% (79.7-131)	2.97%	"	"	
Γrichloroethene	"	18.7		1.00	"	"	ND	"	93.5% (68.4-130)	4.37%	"	"	
Surrogate(s):	4-BFB	Recovery:	102%	Limits	: 75-120%	"						10/31/04 10:25	;
5 (7)	1,2-DCA-d4		103%		77-129%	"						"	
	Dibromofluoromethane		95.0%		80-121%	"						"	
	Toluene-d8		89.5%		80-120%	"						"	

North Creek Analytical - Portland

Mary a. For Sing



Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 phone: (503) 906.9200 fax: (503) 906.9210 ghone: (503) 906.9200 fax: (503) 906.9210 ghone: (541) 383.9310 fax: 541.382.7588 anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 phone: (907) 563.9200 fax: (907) 563.9210

WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:10 Project Manager: Linda Kemp

#### Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

QC Batch: 4110071	Water	Preparation	n Method:	EPA 5	030B									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limi	ts) Analyzed	Notes
Blank (4110071-BLK1)								Exti	acted:	11/02/04	07:33			
Acetone	EPA 8260B	ND		25.0	ug/l	1x							11/02/04 10:14	
Benzene	"	ND		1.00	"	"							"	
Bromobenzene	"	ND		1.00	"	"							"	
Bromochloromethane	"	ND		1.00	"	"							"	
Bromodichloromethane	"	ND		1.00	"	"							"	
Bromoform	"	ND		1.00	"	"							"	
Bromomethane	"	ND		5.00	"	"							"	
2-Butanone	"	ND		10.0	"	"							"	
n-Butylbenzene	"	ND		5.00	"	"							"	
sec-Butylbenzene	"	ND		1.00	"	"							"	
tert-Butylbenzene	"	ND		1.00	"	"							"	
Carbon disulfide	"	ND		10.0	"	"							"	
Carbon tetrachloride	"	ND		1.00	"	"							"	
Chlorobenzene	"	ND		1.00	"	"							"	
Chloroethane	"	ND		1.00	"	"							"	
Chloroform	"	ND		1.00	"	"							"	
Chloromethane	"	ND		5.00	"	"							"	
2-Chlorotoluene	"	ND		1.00	"	"							"	
4-Chlorotoluene	"	ND		1.00	"	"							"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"							"	
Dibromochloromethane	"	ND		1.00	"	"							"	
1,2-Dibromoethane	"	ND		1.00	"	"							"	
Dibromomethane	"	ND		1.00	"	"							"	
1,2-Dichlorobenzene	"	ND		1.00	"	"							"	
1,3-Dichlorobenzene	"	ND		1.00	"	"							"	
1,4-Dichlorobenzene	"	ND		1.00	"	"							"	
Dichlorodifluoromethane	"	ND		5.00	"	"							"	
1,1-Dichloroethane	"	ND		1.00	"	"							"	
1,2-Dichloroethane	"	ND		1.00	"	"							"	
1,1-Dichloroethene	"	ND		1.00	"	"							"	
cis-1,2-Dichloroethene	"	ND		1.00	"	"							"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"							"	
1,2-Dichloropropane	"	ND		1.00	"	"							"	
1,3-Dichloropropane	"	ND		1.00	"	"							"	
2,2-Dichloropropane	"	ND		1.00	"	"							"	
1,1-Dichloropropene	"	ND		1.00	"	"							"	
cis-1,3-Dichloropropene	"	ND ND		1.00	"	"							"	
trans-1,3-Dichloropropene	"	ND ND		1.00	,,	,,							"	
	"	ND ND		1.00	"	,,							"	
Ethylbenzene	"	ND ND		4.00	"	,,							"	
Hexachlorobutadiene	"	ND ND		10.0	,,	,,							"	
2-Hexanone	**	ND		10.0									**	

North Creek Analytical - Portland

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



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Golder Associates - Canada

500-4260 Still Creek Drive Burnaby, BC/CAN V5C6C6

WP&YR/Shops/Skagway Project Name:

Project Number: 96-1412-853B Report Created: 11/08/04 17:10 Project Manager: Linda Kemp

#### Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

QC Batch: 4110071	Water	Preparation	Method:	EPA 50	30B									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	e % REC	(Limits)	% RPD	(Limi	ts) Analyzed	Notes
Blank (4110071-BLK1)								Ext	racted:	11/02/04	07:33			
Isopropylbenzene	EPA 8260B	ND		2.00	ug/l	1x							11/02/04 10:14	
p-Isopropyltoluene	"	ND		2.00	"	"							"	
4-Methyl-2-pentanone	"	ND		5.00	"	"							"	
Methyl tert-butyl ether	"	ND		1.00	"	"							"	
Methylene chloride	"	ND		5.00	"	"							"	
Naphthalene	"	ND		2.00	"	"							"	
n-Propylbenzene	"	ND		1.00	"	"							"	
Styrene	"	ND		1.00	"	"							"	
1,1,2-Tetrachloroethane	"	ND		1.00	"	"							"	
1,1,2,2-Tetrachloroethane	"	ND		1.00	"	"							"	
Tetrachloroethene	"	ND		1.00	"	"							"	
Toluene	"	ND		1.00	"	"							"	
1,2,3-Trichlorobenzene	"	ND		1.00	"	"							"	
1,2,4-Trichlorobenzene	"	ND		1.00	"	"							"	
1,1,1-Trichloroethane	"	ND		1.00	"	"							"	
1,1,2-Trichloroethane	"	ND		1.00	"	"							"	
Trichloroethene	"	ND		1.00	"	"							"	
Trichlorofluoromethane	"	ND		1.00	"	"							"	
1,2,3-Trichloropropane	"	ND		1.00	"	"							"	
1,2,4-Trimethylbenzene	"	ND		1.00	"	"							"	
1,3,5-Trimethylbenzene	"	ND		1.00	"	"							"	
Vinyl chloride	"	ND		1.00	"	"							"	
o-Xylene	"	ND		1.00	"	"							"	
m,p-Xylene	"	ND		2.00	"	"							"	
Surrogate(s): 4-BFB		Recovery: 93	.5%	Limits	: 75-120%	"							11/02/04 10:1	4
1,2-DCA-d4		1.	11%		77-129%	"							"	
Dibromofluorome	thane	10	07%		80-121%	"							"	

80-120%

99.5%

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Mary a. For Sing

Toluene-d8



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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:10 Project Manager: Linda Kemp

#### Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

				1 TOT LII CI	eck Analy	iicai - 1 0	ıuan	u						
QC Batc	h: 4110071	Wate	r Preparat	ion Method:	EPA 503	30B								
Analyte		Method	Result	MDL*	MRL	Units	Dil	Source Result	Spik Amt	e % (Limits)	RPD (I	Limits) A	Analyzed	Notes
LCS (411007	(1-BS1)								Ex	tracted: 11/02/04	07:33			
Benzene		EPA 8260B	19.5		1.00	ug/l	1x		20.0	97.5% (80-120)		11/0	02/04 08:27	
Chlorobenzene		"	19.2		1.00	"	"		"	96.0% (80-124)		'	'	
1,1-Dichloroethe	ene	"	16.6		1.00	"	"		"	83.0% (78-120)		'	•	
Toluene		"	19.3		1.00	"	"		"	96.5% (80-124)		'	•	
Trichloroethene		"	19.7		1.00	"	"		"	98.5% (80-132)		'	,	
Surrogate(s):	4-BFB		Recovery:	104%	Limits.	: 75-120%	"					1	1/02/04 08:2	?7
	1,2-DCA-d4			108%		77-129%	"						"	
	Dibromofluorometh	ane		100%		80-121%	"						"	
	Toluene-d8			102%		80-120%	"						"	
Matrix Spike	(4110071-MS1	.)			QC Source:	P4J0977-0	)1		Ex	tracted: 11/02/04	07:33			
Benzene		EPA 8260B	17.4		1.00	ug/l	1x	ND	20.0	87.0% (80-124)		11/0	02/04 08:55	
Chlorobenzene		"	18.4		1.00	"	"	ND	"	92.0% (72.9-134)		'	•	
1,1-Dichloroethe	ene	"	19.3		1.00	"	"	ND	"	96.5% (79.3-127)		'	•	
Toluene		"	18.4		1.00	"	"	ND	"	92.0% (79.7-131)		,	•	
Trichloroethene		"	16.3		1.00	"	"	ND	"	81.5% (68.4-130)		'	•	
Surrogate(s):	4-BFB		Recovery:	96.5%	Limits.	: 75-120%	"					1	1/02/04 08:5	5
	1,2-DCA-d4			104%		77-129%	"						"	
	Dibromofluorometh	ane		97.0%		80-121%	"						"	
	Toluene-d8			95.0%		80-120%	"						"	
Matrix Spike	Dup (4110071-	-MSD1)			QC Source:	P4J0977-0	)1		Ex	tracted: 11/02/04	07:33			
Benzene		EPA 8260B	19.5		1.00	ug/l	1x	ND	20.0	97.5% (80-124)	11.4%	(25) 11/0	02/04 09:21	
Chlorobenzene		"	19.0		1.00	"	"	ND	"	95.0% (72.9-134)	3.21%	" '	•	
1,1-Dichloroethe	ene	"	19.8		1.00	"	"	ND	"	99.0% (79.3-127)	2.56%	" '	•	
Toluene		"	18.9		1.00	"	"	ND	"	94.5% (79.7-131)	2.68%	" '	•	
Trichloroethene		"	19.4		1.00	"	"	ND	"	97.0% (68.4-130)	17.4%	" "	•	
Surrogate(s):	4-BFB		Recovery:	101%	Limits.	: 75-120%	"					1	1/02/04 09:2	?1
5 -1-9-	1,2-DCA-d4			108%		77-129%	"						"	
	Dibromofluorometh	ane		99.0%		80-121%	"						"	
	Toluene-d8			100%		80-120%	"						"	

North Creek Analytical - Portland

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Golder Associates - Canada Project Name: WP&YR/Shops/Skagway

500-4260 Still Creek DriveProject Number:96-1412-853BReport Created:Burnaby, BC/CAN V5C6C6Project Manager:Linda Kemp11/08/04 17:10

#### **Notes and Definitions**

#### Report Specific Notes:

None

#### **Laboratory Reporting Conventions:**

<u>DET</u> - Analyte <u>DETECTED</u> at or above the Reporting Limit. Qualitative Analyses only.

ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).

NR / NA - Not Reported / Not Available

dry - Sample results reported on a dry weight basis. Reporting Limits are corrected for %Solids when %Solids are <50%.

<u>wet</u> - Sample results and reporting limits reported on a <u>wet weight basis</u> (as received).

RPD - Relative Percent Difference. (RPDs calculated using Results, not Percent Recoveries).

<u>MRL</u> - <u>METHOD REPORTING LIMIT</u>. Reporting Level at, or above, the lowest level standard of the Calibration Table.

<u>MDL\*</u> - <u>METHOD DETECTION LIMIT.</u> Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated results.

<u>Dil</u> - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

North Creek Analytical - Portland



11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-9508 11115 E Montgomery Suite B, Spokane, WA 99206-4776 9405 SW Nimbus Ave, Beaverton, OR 97008-7132 20332 Empire Ave Suite F-1, Bend, OR 99701-5711 425-420-9200 FAX 420-9210 509-924-9200 FAX 924-9290

503-906-9200 FAX 906-9210 L 541-383-9310 FAX 382-7588 907<u>-334</u>-9200 FAX 334-9210 3209 Denali St, Anchorage, AK 99503-4030

	CHAIN O	FC	CUS	TO	DY	RE	PO	RT							Work O	rder #:	: 04	MUDA(	ン
CLIENT: GOLDER	2 ASSOCIATES	>			INV	OICE	TO:											REQUEST	
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Burnaby,	BC .														10 7	5	4 3	2 1	< 1
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COC REV 1/03															2114	44	17/	4 PAG	E   OF

NORTH CREEK ANALYTICAL COOLER RECEIPT FORM

(Army Corp. compliant) 1. Please sign for receipt and opening of (sign) W By (print) Date samples received 10/0/0/ Date opened: Same Delivered by: \_\_\_NCA courier \_\_\_ FedEx \_\_\_UPS \_\_\_Courier \_\_\_ Client \_\_\_Cother \_\_\_ (Put copy of shipping papers in file) Airbill # if applicable There were custody seals present, signed by \_\_\_\_\_ date \_\_\_/\_\_\_/\_\_. Were the custody seals unbroken and intact at the date and time of arrival? \_\_\_\_Yes \_\_\_\_No 6. Was ice used? Xyes \_\_\_\_no Type of ice: \_\_\_\_ blue ice X\_gel ice \_\_\_real ice Temperature (degrees C) 3919 Raytek thermometer \_\_\_\_\_ Digi-Therm (probe temperature blank) 7. Are custody papers sealed in a plastic bag and taped inside to lid? 8. Were custody papers filled out properly (ink, signed, etc.)? If "no" please specify: Was project identifiable from oustody papers? Name of project (initials) date 10 127104 10. Initial and date for unpacking: 11. Packing material: X bubble wrap/bag \_\_\_styrofoam X cardboard \_\_\_\_\_ 12. Were samples in bags? 13. Did all containers indicated on the COC arrive? If "no" please indicate which containers were absent \_\_\_\_ 14. Were all containers unbroken and labels in good condition? If "no" please indicate which containers \_\_\_\_\_\_ 15. Were all bottle labels complete (ID, date, time, signature, etc.)? Do the IDs, times, etc. agree with the COC? If "no" please indicate which containers \_\_\_\_ No 16. Are containers properly preserved for indicated analysis? Yes No 17. Is there adequate volume for the test(s) requested? 18. If you vials were submitted, are they free of bubbles? N/A No 19. Log-in phase: Date samples were logged in: 10/27/04 Elm Project # P4/1/21 20. Logged in by (print) (11116 FallSM12 (sign) Cumpush 21. Was the project manager notified of status? (Use back of form as a record) Yes 🔀 No



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

425.420.9200 fax 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 Spokane

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588 Bend

Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119

907.563.9200 fax 907.563.9210

November 08, 2004

Linda Kemp Golder Associates - Canada 500-4260 Still Creek Drive Burnaby, BC/CAN V5C6C6

RE: WP&YR/Shops/Skagway

Enclosed are the results of analyses for samples received by the laboratory on 10/26/04 14:15. The following list is a summary of the NCA Work Orders contained in this report. If you have any questions concerning this report, please feel free to contact me.

<u>Work</u>	<u>Project</u>	<u>ProjectNumber</u>	
P4J1122	WP&YR/Shops/Skagway	96-1412-853B	

Thank You,

Mary A. Fritzmann Smith, Project Manager

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

> North Creek Analytical, Inc. **Environmental Laboratory Network**



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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:12 Project Manager: Linda Kemp

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
041021-01	P4J1122-01	Water	10/21/04 08:45	10/26/04 14:15
041021-02	P4J1122-02	Water	10/21/04 10:30	10/26/04 14:15
041021-03	P4J1122-03	Water	10/21/04 11:30	10/26/04 14:15
041021-04	P4J1122-04	Water	10/21/04 13:30	10/26/04 14:15
041021-05	P4J1122-05	Water	10/21/04 14:00	10/26/04 14:15
041021-06	P4J1122-06	Water	10/21/04 15:00	10/26/04 14:15
041021-07	P4J1122-07	Water	10/21/04 16:00	10/26/04 14:15
041021-08	P4J1122-08	Water	10/21/04 17:00	10/26/04 14:15
041021-09	P4J1122-09	Water	10/21/04 17:00	10/26/04 14:15



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WP&YR/Shops/Skagway

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:12 Project Manager: Linda Kemp

Project Name:

#### Gasoline Range Organics (C6-C10) per AK101

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-01	Water	041021-01	Sampl	led: 10/21	/04 08:45						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/29/04 23:54	
Surrogate(s):	4-BFB (FID)		Recovery: 76.2%	ó	Limits: 6	60 - 120 %	"			"	
P4J1122-02	Water	041021-02	Sampl	led: 10/21	/04 10:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/30/04 00:50	
Surrogate(s):	4-BFB (FID)		Recovery: 74.6%	í	Limits: 6	50 - 120 %	"			"	
P4J1122-03	Water	041021-03	Sampl	led: 10/21	/04 11:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/30/04 01:17	
Surrogate(s):	4-BFB (FID)		Recovery: 74.2%	ó	Limits: 6	50 - 120 %	"			"	
P4J1122-04	Water	041021-04	Sampl	led: 10/21	/04 13:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/30/04 01:45	
Surrogate(s):	4-BFB (FID)		Recovery: 75.0%	í	Limits: 6	60 - 120 %	"			"	
P4J1122-05	Water	041021-05	Sampl	led: 10/21	/04 14:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/30/04 02:13	
Surrogate(s):	4-BFB (FID)		Recovery: 72.4%	ó	Limits: 6	60 - 120 %	"			"	
P4J1122-06	Water	041021-06	Sampl	led: 10/21	/04 15:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/30/04 03:09	
Surrogate(s):	4-BFB (FID)		Recovery: 74.2%	í	Limits: 6	60 - 120 %	"			"	

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Golder Associates - Canada

500-4260 Still Creek Drive Burnaby, BC/CAN V5C6C6

WP&YR/Shops/Skagway Project Name:

Project Number: 96-1412-853B Project Manager: Linda Kemp

Report Created: 11/08/04 17:12

#### Gasoline Range Organics (C6-C10) per AK101

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-07	Water	041021-07	Sample	d: 10/21	1/04 16:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/30/04 03:37	
Surrogate(s):	4-BFB (FID)		Recovery: 73.4%		Limits: 6	60 - 120 %	"			"	
P4J1122-08	Water	041021-08	Sample	d: 10/21	1/04 17:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/30/04 04:04	
Surrogate(s):	4-BFB (FID)		Recovery: 74.2%		Limits: 6	60 - 120 %	"			"	
P4J1122-09	Water	041021-09	Sample	d: 10/21	1/04 17:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101503	10/29/04	10/30/04 04:32	
Surrogate(s):	4-BFB (FID)		Recovery: 75.2%		Limits: 6	50 - 120 %	"			"	



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Golder Associates - Canada Project Name: WP&YR/Shops/Skagway

500-4260 Still Creek DriveProject Number:96-1412-853BReport Created:Burnaby, BC/CAN V5C6C6Project Manager:Linda Kemp11/08/04 17:12

# <u>Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 Low Volume</u> North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-01	Water	041021-01	Sample	ed: 10/21	/04 08:45	;					
Diesel Range O	rganics	AK102/103	ND		0.435	mg/l	1x	4101442	10/29/04	10/29/04 22:46	
Residual Range		"	ND		0.522	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane Triacontane		Recovery: 83.9% 77.2%			50 - 150 % 50 - 150 %	"			"	
P4J1122-02	Water	041021-02	Sample	ed: 10/21	/04 10:30	)					
Diesel Range O	rganics	AK102/103	ND		0.500	mg/l	1x	4101442	10/29/04	10/30/04 00:42	
Residual Range	Organics	"	ND		0.600	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 108%		Limits:	50 - 150 %	"			"	
J , ,	Triacontane		142%			50 - 150 %	"			"	
P4J1122-03	Water	041021-03	Sample	ed: 10/21	/04 11:30	)					
Diesel Range O	rganics	AK102/103	ND		0.417	mg/l	1x	4101442	10/29/04	10/30/04 01:21	
Residual Range	Organics	"	ND		0.500	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 90.0%		Limits:	50 - 150 %	"			"	
0 ()	Triacontane		81.4%			50 - 150 %	"			"	
P4J1122-04	Water	041021-04	Sample	ed: 10/21	/04 13:30	)					
Diesel Range O	rganics	AK102/103	ND		0.435	mg/l	1x	4101442	10/29/04	10/30/04 01:59	
Residual Range	Organics	"	ND		0.522	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 88.2%		Limits:	50 - 150 %	"			"	
5 ()	Triacontane		120%			50 - 150 %	"			"	

North Creek Analytical - Portland

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:12 Project Manager: Linda Kemp

### Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 Low Volume North Creek Analytical - Portland

			Tioren erec	K Tillary	ticai i oi	tiana					
Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-05	Water	041021-05	Sampl	ed: 10/21	1/04 14:00	)					
Diesel Range O	Organics	AK102/103	ND		0.435	mg/l	1x	4101442	10/29/04	10/30/04 02:38	
Residual Range	-	"	ND		0.522	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 73.1%		Limits:	50 - 150 %	"			"	
	Triacontane		66.9%			50 - 150 %	"			"	
P4J1122-06	Water	041021-06	Sampl	ed: 10/21	1/04 15:00	)					
Diesel Range O	Organics	AK102/103	ND		0.417	mg/l	1x	4101442	10/29/04	10/30/04 03:17	
Residual Range	e Organics	"	ND		0.500	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 86.5%		Limits:	50 - 150 %	"			"	
	Triacontane		114%			50 - 150 %	"			"	
P4J1122-07	Water	041021-07	Sampl	ed: 10/21	1/04 16:00	)					
Diesel Range O	Organics	AK102/103	ND		0.417	mg/l	1x	4101442	10/29/04	10/30/04 03:55	
Residual Range	e Organics	"	ND		0.500	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 86.5%		Limits:	50 - 150 %	"			"	
	Triacontane		82.6%			50 - 150 %	"			"	
P4J1122-08	Water	041021-08	Sampl	ed: 10/21	1/04 17:00	)					
Diesel Range O	Organics	AK102/103	ND		0.500	mg/l	1x	4101442	10/29/04	10/30/04 04:34	
Residual Range	e Organics	"	ND		0.600	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane	<u> </u>	Recovery: 80.4%		Limits:	50 - 150 %	"	<u> </u>	<u> </u>	"	
	Triacontane		106%			50 - 150 %	"			"	

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Golder Associates - Canada Project Name: WP&YR/Shops/Skagway

500-4260 Still Creek DriveProject Number:96-1412-853BReport Created:Burnaby, BC/CAN V5C6C6Project Manager:Linda Kemp11/08/04 17:12

# Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 Low Volume

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
P4J1122-09	Water	041021-09	Sample	Sampled: 10/21/04 17:00								
Diesel Range Or	ganics	AK102/103	ND		0.435	mg/l	1x	4101442	10/29/04	10/30/04 05:12		
Residual Range	-	"	ND		0.522	"	"	"	"	"		
Surrogate(s):	1-Chlorooctadecane		Recovery: 90.2%		Limits: .	50 - 150 %	"			"		
9 (/	Triacontane		142%			50 - 150 %	"			"		

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

P4   P4   P4   P5   P5   P5   P5   P5	Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
Berne	P4J1122-01 Wate	er 041021-01	Samı	oled: 10/21	/04 08:45						
Bromobenzene   ND   1.00	Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110003	11/01/04	11/01/04 12:58	
Some content   Some   Some content	Benzene	n .	ND		1.00	"	"	"	"	"	
Bromodichromethane   ND   1.00	Bromobenzene	"	ND		1.00	"	"	"	"	"	
ND	Bromochloromethane	"	ND		1.00	"	"	"	"	"	
State   Stat	Bromodichloromethane	n .	ND		1.00	"	"	"	"	"	
2-Butanone         "ND	Bromoform	n .	ND		1.00	"	"	"	"	"	
No	Bromomethane	n .	ND		5.00	"	"	"	"	"	
sec-Butylbenzene         "         ND         -         1,00         "	2-Butanone	n .	ND		10.0	"	"	"	"	"	
No	n-Butylbenzene	n .	ND		5.00	"	"	"	"	"	
tert-Bulylbenzene         "ND         1.00         "ND	sec-Butylbenzene	n .	ND		1.00	"	"	"	"	"	
Carbon disulfide         ND         ND         10.0         "		"	ND		1.00	"	"	"	"	"	
Chloroethane   ND   1.00	_	"	ND		10.0	"	"	"	"	"	
Chlorobenzene	Carbon tetrachloride	"	ND		1.00	"	"	"	"	"	
Chloroethane         ND		"	ND		1.00	"	"	"	"	"	
Chloroform         ND		"	ND		1.00	"	"	"	"	"	
Chlorotolluene		"	ND		1.00	"	"	"	"	"	
2-Chlorotoluene         "         ND          1.00         "	Chloromethane	"	ND		5.00	"	"	"	"	"	
4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane   " ND		n	ND		1.00	"	"	"	"	"	
Dibromochloromethane         "ND         1.00         """"""""""""""""""""""""""""""""""""		ane "	ND		5.00	"	"	"	"	"	
1,2-Dibromoethane			ND		1.00	"	"	"	"	"	
Dibromomethane         "         ND		n	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene         "ND		n	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene         "ND		n	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene         "ND          1.00         """"""""""""""""""""""""""""""""""""	-	n	ND			"	"	"	"	"	
Dichlorodifluoromethane         "ND         5.00         """"""""""""""""""""""""""""""""""""		n				"	"	"	"	"	
1,1-Dichloroethane       "ND        1.00       """"""""""""""""""""""""""""""""""""		n				"	"	"	"	"	
1,2-Dichloroethane		n .	ND			"	"	"	"	"	
1,1-Dichloroethene       "       ND        1.00       "<	-	n	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene       "       ND        1.00       "       <	·	n	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene       "       ND        1.00       "	*	n			1.00	"	"	"	"	"	
1,2-Dichloropropane       "       ND        1.00       "	*	n			1.00	"	"	"	"	"	
1,3-Dichloropropane       " ND 1.00 " " " " " " " " " "         2,2-Dichloropropane       " ND 1.00 " " " " " " " " " "         1,1-Dichloropropene       " ND 1.00 " " " " " " " " " "         cis-1,3-Dichloropropene       " ND 1.00 " " " " " " " " "         trans-1,3-Dichloropropene       " ND 1.00 " " " " " " " " "         Ethylbenzene       " ND 1.00 " " " " " " " " " "         Hexachlorobutadiene       " ND 1.00 " " " " " " " " " " "         2-Hexanone       " ND 10.0 " " " " " " " " " " "		n	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane       "       ND        1.00       "		n			1.00	"	"	"	"	"	
1,1-Dichloropropene       " ND 1.00 " " " " " " " " "         cis-1,3-Dichloropropene       " ND 1.00 " " " " " " " " "         trans-1,3-Dichloropropene       " ND 1.00 " " " " " " " " "         Ethylbenzene       " ND 1.00 " " " " " " " " " "         Hexachlorobutadiene       " ND 1.00 " " " " " " " " " " "         2-Hexanone       " ND 10.0 " " " " " " " " " " "		n	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene         "         ND          1.00         " <t< td=""><td></td><td>"</td><td></td><td></td><td></td><td>"</td><td>"</td><td>"</td><td>"</td><td>•</td><td></td></t<>		"				"	"	"	"	•	
trans-1,3-Dichloropropene " ND 1.00 " " " " " " " " " Ethylbenzene " ND 1.00 " " " " " " " " " " " " " " " " " "		"				"	"	"	"	•	
Ethylbenzene       "       ND        1.00       "		n .				"	"	"	"	"	
Hexachlorobutadiene       " ND 4.00 " " " " " " "         2-Hexanone       " ND 10.0 " " " " " " " "		n .				"	"	"	"	"	
2-Hexanone " ND 10.0 " " " " "		n .				"	"	"	"	"	
		n .				"	"	"	"	"	
INDITION IND	Isopropylbenzene	n .	ND		2.00	"	"	"	"	"	

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-01	Water	041021-01	Sample	ed: 10/2	1/04 08:45	5				<u> </u>	
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4110003	11/01/04	11/01/04 12:58	
4-Methyl-2-per		"	ND		5.00	"	"	"	"	"	
Methyl tert-but	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach		"	ND		1.00	"	"	"	"	"	
Tetrachloroethe	ene	"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro	ethane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroether		"	1.67		1.00	"	"	"	"	"	
Trichlorofluoro	methane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 92.5%		Limits:	75 - 120 %	"			"	
	1,2-DCA-d4		109%			77 - 129 %	"			"	
	Dibromofluoromethane		108%			80 - 121 %	"			"	
	Toluene-d8		108%			80 - 120 %	"			"	

North Creek Analytical - Portland



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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

#### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-02 Water	041021-02	Samp	led: 10/21	/04 10:30						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110003	11/01/04	11/01/04 13:26	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	"	ND		10.0	"	"	"	"	"	
n-Butylbenzene	"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND		1.00	"	"	"	"	"	
Carbon disulfide	n	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	n	ND		1.00	"	"	"	"	"	
Chlorobenzene	"	ND		1.00	"	"	"	"	"	
Chloroethane	"	ND		1.00	"	"	"	"	"	
Chloroform	"	ND		1.00	"	"	"	"	"	
Chloromethane	"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	"	"	"	
Dibromochloromethane	n	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	n	ND		1.00	"	"	"	"	"	
Dibromomethane	n	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	n	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	n	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	n	14.4		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
Ethylbenzene	"	ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND		4.00	"	"	"	"	"	
2-Hexanone	"	ND		10.0	"	"	"	"	•	
Isopropylbenzene	"	ND		2.00	"	"	"	"	•	

North Creek Analytical - Portland

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-02	Water	041021-02	Sample	ed: 10/21	1/04 10:30						
p-Isopropyltolu	ene	EPA 8260B	ND		2.00	ug/l	1x	4110003	11/01/04	11/01/04 13:26	
4-Methyl-2-pen	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	ride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzen	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	n .	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	n .	ND		1.00	"	"	"	"	"	
Tetrachloroeth	iene	"	2.83		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro		"	ND		1.00	n .	"	"	"	"	
1,1,1-Trichloro		"	ND		1.00	n .	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	n .	"	"	"	"	
Trichloroethen		"	21.9		1.00	"	"	"	"	"	
Trichlorofluoro	methane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy	• •	"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethyl		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 86.0%		Limits:	75 - 120 %	"			"	
- ','	1,2-DCA-d4		106%			77 - 129 %	"			"	
	Dibromofluoromethane		106%			80 - 121 %	"			"	
	Toluene-d8		99.5%		8	80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

#### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-03 Water	041021-03	Samp	led: 10/21	/04 11:30						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110003	11/01/04	11/01/04 13:54	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	"	ND		10.0	"	"	"	"	"	
n-Butylbenzene	"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	n .	ND		1.00	"	"	"	"	"	
Carbon disulfide	n .	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	n .	ND		1.00	"	"	"	"	"	
Chlorobenzene	"	ND		1.00	"	"	"	"	"	
Chloroethane	"	ND		1.00	"	"	"	"	"	
Chloroform	"	ND		1.00	"	"	"	"	"	
Chloromethane	"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	"	"	"	
Dibromochloromethane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	n .	ND		1.00	"	"	"	"	"	
Dibromomethane	n .	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	n .	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	n .	1.63		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
Ethylbenzene	"	ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND		4.00	"	"	"	"	"	
2-Hexanone	"	ND		10.0	"	"	"	"	"	
Isopropylbenzene	"	ND		2.00	"	"	"	"	"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-03	Water	041021-03	Sample	ed: 10/2	1/04 11:30						
p-Isopropyltoli	iene	EPA 8260B	ND		2.00	ug/l	1x	4110003	11/01/04	11/01/04 13:54	
4-Methyl-2-per	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	tyl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	nloroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	nloroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroeth		"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro	ethane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroethe		"	3.48		1.00	"	"	"	"	"	
Trichlorofluoro		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	ppropane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s).	: 4-BFB		Recovery: 94.0%		Limits:	75 - 120 %	"			"	
5 ()	1,2-DCA-d4		108%		:	77 - 129 %	"			"	
	Dibromofluoromethane		106%			80 - 121 %	"			"	
	Toluene-d8		108%		d	80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-04 Water	041021-04	Samp	led: 10/21	/04 13:30						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110003	11/01/04	11/01/04 14:22	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	"	ND		10.0	"	"	"	"	"	
n-Butylbenzene	"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND		1.00	"	"	"	"	"	
Carbon disulfide	"	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND		1.00	"	"	"	"	"	
Chlorobenzene	"	ND		1.00	"	"	"	"	"	
Chloroethane	"	ND		1.00	"	"	"	"	"	
Chloroform	"	ND		1.00	"	"	"	"	"	
Chloromethane	"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	"	"	"	
Dibromochloromethane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND		1.00	"	"	"	"	"	
Dibromomethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	4.03		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
Ethylbenzene	m .	ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	m .	ND		4.00	"	"	"	"	"	
2-Hexanone	m .	ND		10.0	"	"	"	"	"	
Isopropylbenzene	"	ND		2.00	"	"	"	"	"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-04	Water	041021-04	Sample	ed: 10/2	1/04 13:30						
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4110003	11/01/04	11/01/04 14:22	
4-Methyl-2-per	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	tyl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroeth		"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro	ethane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroether		"	2.09		1.00	"	"	"	"	"	
Trichlorofluoro		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	· 4-BFB		Recovery: 89.5%		Limits:	75 - 120 %	"			"	_
0 ,,	1,2-DCA-d4		102%			77 - 129 %	"			"	
	Dibromofluoromethane		102%			80 - 121 %	"			"	
	Toluene-d8		102%		d	80 - 120 %	"			"	

North Creek Analytical - Portland

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-05	Water	041021-05	Samp	oled: 10/21	/04 14:00						
Acetone		EPA 8260B	ND		25.0	ug/l	1x	4110003	11/01/04	11/01/04 14:49	
Benzene		"	ND		1.00	"	"	"	"	"	
Bromobenzene		"	ND		1.00	"	"	"	"	"	
Bromochlorometha	ane	"	ND		1.00	"	"	"	"	"	
Bromodichloromet	thane	"	ND		1.00	"	"	"	"	"	
Bromoform		"	ND		1.00	"	"	"	"	"	
Bromomethane		"	ND		5.00	"	"	"	"	"	
2-Butanone		"	ND		10.0	"	"	"	"	"	
n-Butylbenzene		"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene		"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene		"	ND		1.00	"	"	"	"	"	
Carbon disulfide		"	ND		10.0	"	"	"	"	"	
Carbon tetrachloric	de	"	ND		1.00	"	"	"	"	"	
Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chloroethane		"	ND		1.00	"	"	"	"	"	
Chloroform		"	ND		1.00	"	"	"	"	"	
Chloromethane		"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chl	oropropane	"	ND		5.00	"	"	"	"	"	
Dibromochloromet		"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane		"	ND		1.00	"	"	"	"	"	
Dibromomethane		"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenze	ne	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenze		"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenze		"	ND		1.00	"	"	"	"	"	
Dichlorodifluorom		"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane		"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene		"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroeth		"	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloro		"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropa		"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroproper		"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropro		n .	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloro	•	m .	ND		1.00	"	"	"	"	**	
Ethylbenzene	F-2P***	m .	ND		1.00	"	"	"	"	"	
Hexachlorobutadie	ene	"	ND		4.00	"	"	"	"	"	
2-Hexanone		m .	ND		10.0	"	"	"	"	"	
Isopropylbenzene		"	ND		2.00	"	"	"	"	"	
isopropyrochizene			1112		2.00						

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-05	Water	041021-05	Sample	ed: 10/21	1/04 14:00						
p-Isopropyltolu	ene	EPA 8260B	ND		2.00	ug/l	1x	4110003	11/01/04	11/01/04 14:49	
4-Methyl-2-pen	tanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-buty	l ether	"	ND		1.00	"	"	"	"	"	
Methylene chlor	ride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzen	e	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrachl	oroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrachl	oroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroethe	ne	"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichlorob	penzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichlorob		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloroe	ethane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloroe		"	ND		1.00	"	"	"	"	"	
Trichloroethene		"	ND		1.00	"	"	"	"	"	
Trichlorofluoro	methane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichlorop	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethyl	-	"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethyl		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 92.5%		Limits:	75 - 120 %	"			"	
3 (7)	1,2-DCA-d4		106%			77 - 129 %	"			"	
	Dibromofluoromethane		106%		d	80 - 121 %	"			"	
	Toluene-d8		108%		d	80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

P4   1122-06   Nater   P4   82608   ND	Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
Berne	P4J1122-06	Water	041021-06	Samı	oled: 10/21	/04 15:00						
Bromobenzene   ND   1.00	Acetone		EPA 8260B	ND		25.0	ug/l	1x	4110003	11/01/04	11/01/04 15:17	
No	Benzene		"	ND		1.00	"	"	"	"	"	
Bromodichromethane   ND   1.00	Bromobenzene		"	ND		1.00	"	"	"	"	"	
Bromoform   ND     1.00	Bromochlorometh	ane	"	ND		1.00	"	"	"	"	"	
Solution   Solution	Bromodichlorome	thane	"	ND		1.00	"	"	"	"	"	
2-Butanone         "ND"         10.0         """"""""""""""""""""""""""""""""""""	Bromoform		"	ND		1.00	"	"	"	"	"	
Butylbenzene	Bromomethane		"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene         "         ND	2-Butanone		"	ND		10.0	"	"	"	"	"	
ND	n-Butylbenzene		"	ND		5.00	"	"	"	"	"	
tert-Butylbenzene         " ND	sec-Butylbenzene		"	ND		1.00	"	"	"	"	"	
Carbon disulfide         "ND         ND         10.0         "ND         "ND         10.0         "ND			"	ND		1.00	"	"	"	"	"	
Chloroethane   ND     1.00	-		"	ND		10.0	"	"	"	"	"	
Chloroethane  ND 1.00 " " " " " " " " " " " Chloroform  Chloromethane  ND 5.00 " " " " " " " " " " " " " " " " " "	Carbon tetrachlori	de	"	ND		1.00	"	"	"	"	"	
Chloroethane         "ND         1.00         "ND         <	Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chloroform         ND         ND         1.00         """"""""""""""""""""""""""""""""""""			"	ND		1.00	"	"	"	"	"	
Chlorotoluene			"	ND		1.00	"	"	"	"	"	
2-Chlorotoluene         "ND         1.00         """"""""""""""""""""""""""""""""""""	Chloromethane		"	ND		5.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane   "			"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane   " ND	4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
Dibromochloromethane         "ND         1.00         """"""""""""""""""""""""""""""""""""		loropropane	"	ND		5.00	"	"	"	"	"	
1,2-Dibromoethane			"	ND		1.00	"	"	"	"	"	
Dibromomethane         "         ND			"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene         "ND			"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene         "ND		ene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene         "         ND          1.00         "<	•		"	ND			"	"	"	"	"	
Dichlorodifluoromethane         "ND         5.00         """"""""""""""""""""""""""""""""""""			"				"	"	"	"	"	
1,1-Dichloroethane       "ND        1.00       """"""""""""""""""""""""""""""""""""			"				"	"	"	"	"	
1,2-Dichloroethane       "       ND        1.00       "			"	ND			"	"	"	"	"	
1,1-Dichloroethene       "       ND        1.00       "	•		"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene         "         ND          1.00         " <td< td=""><td>•</td><td></td><td>"</td><td>ND</td><td></td><td>1.00</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></td<>	•		"	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene       " ND 1.00 " " " " " " " " " " " " " " " " " "			"			1.00	"	"	"	"	"	
1,2-Dichloropropane       " ND 1.00 " " " " " " " " " " " " " " " " " "	*		"			1.00	"	"	"	"	"	
1,3-Dichloropropane       " ND 1.00 " " " " " " " " " " " " " " " " " "			"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane       "       ND        1.00       "			"			1.00	"	"	"	"	"	
1,1-Dichloropropene       " ND 1.00 " " " " " " " "         cis-1,3-Dichloropropene       " ND 1.00 " " " " " " " "         trans-1,3-Dichloropropene       " ND 1.00 " " " " " " " "         Ethylbenzene       " ND 1.00 " " " " " " " " "         Hexachlorobutadiene       " ND 4.00 " " " " " " " " "         2-Hexanone       " ND 10.0 " " " " " " " " "			"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene       "       ND        1.00       "			"				"	"	"	"	"	
trans-1,3-Dichloropropene " ND 1.00 " " " " " " " " " Ethylbenzene " ND 1.00 " " " " " " " " " " " " " " " " " "			"				"	"	"	"	"	
Ethylbenzene       "       ND        1.00       "			"				"	"	"	"	"	
Hexachlorobutadiene       " ND 4.00 " " " " " " "         2-Hexanone       " ND 10.0 " " " " " " "	•	I . I .	"				"	"	"	"	"	
2-Hexanone " ND 10.0 " " " " "		ene	II .				"	"	"	"	"	
			II .				"	"	"	"	"	
Isopropylbenzene "ND 2.00 "" " " " "	Isopropylbenzene		"	ND		2.00	"	"	"	"	"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-06	Water	041021-06	Sample	ed: 10/21	/04 15:00						
p-Isopropyltoluen	ne	EPA 8260B	ND		2.00	ug/l	1x	4110003	11/01/04	11/01/04 15:17	
4-Methyl-2-penta	none	"	ND		5.00	"	"	"	"	"	
Methyl tert-butyl	ether	"	ND		1.00	"	"	"	"	"	
Methylene chlorid	de	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzene		"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrachlor	roethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrachlor	roethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroethene	e	"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichlorobe	nzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichlorobe	nzene	"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloroetl	hane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloroetl	hane	"	ND		1.00	"	"	"	"	"	
Trichloroethene		"	ND		1.00	"	"	"	"	"	
Trichlorofluorom	ethane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloropre	opane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethylbe	•	"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethylbe		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 94.5%		Limits:	75 - 120 %	"			"	
	1,2-DCA-d4		112%			77 - 129 %	"			"	
	Dibromofluoromethane		109%			80 - 121 %	"			"	
2	Toluene-d8		110%		d	80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-07 Water	041021-07	Samp	oled: 10/21	/04 16:00						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110003	11/01/04	11/01/04 15:45	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	n .	ND		1.00	"	"	"	"	"	
Bromodichloromethane	n .	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	"	ND		10.0	"	"	"	"	"	
n-Butylbenzene	"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND		1.00	"	"	"	"	"	
Carbon disulfide	n .	ND		10.0	"		"	"	"	
Carbon tetrachloride	"	ND		1.00	"		"	"	"	
Chlorobenzene	"	ND		1.00	"		"	"	"	
Chloroethane	"	ND		1.00	"		"	"	"	
Chloroform	"	ND		1.00	"		"	"	"	
Chloromethane	"	ND		5.00	"		"	"	"	
2-Chlorotoluene	"	ND		1.00	"		"	"	"	
4-Chlorotoluene	"	ND		1.00	"		"		"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	,,		,,	,,	"	
Dibromochloromethane	"	ND		1.00	,,		,,	,,	"	
1,2-Dibromoethane	"	ND		1.00	,,		,,	,,	"	
Dibromomethane	"	ND		1.00	,,		"	,,	"	
	"	ND ND		1.00	,,		"	,,	"	
1,2-Dichlorobenzene	"				,,		"	,,	"	
1,3-Dichlorobenzene	"	ND		1.00	,,	,,	"	"	"	
1,4-Dichlorobenzene	"	ND		1.00	,,	,,	,,	,,	"	
Dichlorodifluoromethane	"	ND		5.00	,,	"	,,	,,	"	
1,1-Dichloroethane	"	ND		1.00	,,	,,	"	,,	"	
1,2-Dichloroethane	"	ND		1.00	,,	"	"	,,	"	
1,1-Dichloroethene	"	ND		1.00	,,	"	"	"	"	
cis-1,2-Dichloroethene	"	ND		1.00	,,	,,	,,	,,	"	
trans-1,2-Dichloroethene	"	ND		1.00			"	,,		
1,2-Dichloropropane	"	ND		1.00					"	
1,3-Dichloropropane		ND		1.00	"		"	"	"	
2,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
Ethylbenzene	"	ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND		4.00	"	"	"	"	"	
2-Hexanone	"	ND		10.0	"	"	"	"	"	
Isopropylbenzene	II .	ND		2.00	"	"	"	"	"	

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-07	Water	041021-07	Sample	ed: 10/2	1/04 16:00						
p-Isopropyltolu	ene	EPA 8260B	ND		2.00	ug/l	1x	4110003	11/01/04	11/01/04 15:45	
4-Methyl-2-pen	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	ride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzen	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroethe		"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroethene		"	ND		1.00	"	"	"	"	"	
Trichlorofluoro		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro		"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethyl		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethyl		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 85.0%		Limits:	75 - 120 %	"			"	
- ','	1,2-DCA-d4		98.0%			77 - 129 %	"			"	
	Dibromofluoromethane		99.0%			80 - 121 %	"			"	
	Toluene-d8		98.5%		Č	80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-08	Water	041021-08	Samp	oled: 10/21	/04 17:00						
Acetone		EPA 8260B	ND		25.0	ug/l	1x	4110003	11/01/04	11/01/04 16:13	
Benzene		"	ND		1.00	"	"	"	"	"	
Bromobenzene		"	ND		1.00	"	"	"	"	"	
Bromochlorometh	ane	"	ND		1.00	"	"	"	"	"	
Bromodichlorome	thane	"	ND		1.00	"	"	"	"	"	
Bromoform		"	ND		1.00	"	"	"	"	"	
Bromomethane		"	ND		5.00	"	"	"	"	"	
2-Butanone		"	ND		10.0	"	"	"	"	"	
n-Butylbenzene		"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene		"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene		"	ND		1.00	"	"	"	"	"	
Carbon disulfide		II .	ND		10.0	"	"	"	"	"	
Carbon tetrachlori	de	"	ND		1.00	"	"	"	"	"	
Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chloroethane		"	ND		1.00	"	"	"	"	"	
Chloroform		II .	ND		1.00	"	"	"	"	"	
Chloromethane		"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-ch	loropropane	"	ND		5.00	"	"	"	"	"	
Dibromochlorome		"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethan		"	ND		1.00	"	"	"	"	"	
Dibromomethane		"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenze	ene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenze		"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenze		"	ND		1.00	"	"	"	"	"	
Dichlorodifluoron		"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethan		"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethan		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethen		"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroet		"	13.0		1.00	"	"	"	"	"	
trans-1,2-Dichloro		"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropa		"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroprope		"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropi		"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloro		"	ND		1.00	"	"	"	"	"	
Ethylbenzene	propene	"	ND		1.00	"	"	"	,,	"	
Hexachlorobutadio	ene	"	ND		4.00	"	"	"	"		
2-Hexanone	0110	"	ND		10.0	"	"	"	"		
Isopropylbenzene		"	ND		2.00	"	"	"	,,	"	
isopropytoetizene			ND		2.00						

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-08	Water	041021-08	Sample	ed: 10/2	1/04 17:00						
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4110003	11/01/04	11/01/04 16:13	
4-Methyl-2-per	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	tyl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	m .	ND		1.00	"	"	"	"	"	
Tetrachloroeth	ene	m .	ND		1.00	"	"	"	"	"	
Toluene		m .	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	m .	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro	benzene	m .	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro	ethane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro	ethane	"	ND		1.00	"	"	"	"	"	
Trichloroether	ne	"	28.9		1.00	"	"	"	"	"	
Trichlorofluoro	omethane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	· 4-BFB		Recovery: 89.0%		Limits:	75 - 120 %	"			"	
2 17	1,2-DCA-d4		104%			77 - 129 %	"			"	
	Dibromofluoromethane		106%			80 - 121 %	"			"	
	Toluene-d8		104%		d	80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-09 Water	041021-09	Samp	led: 10/21	/04 17:00						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110003	11/01/04	11/01/04 16:40	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	"	ND		10.0	"	"	"	"	"	
n-Butylbenzene	"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND		1.00	"	"	"	"	"	
Carbon disulfide	"	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND		1.00	"	"	"	"	"	
Chlorobenzene	"	ND		1.00	"	"	"	"	"	
Chloroethane	"	ND		1.00	"	"	"	"	"	
Chloroform	"	ND		1.00	"	"	"	"	"	
Chloromethane	"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	"	"	"	
Dibromochloromethane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND		1.00	"	"	"	"	"	
Dibromomethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	12.9		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	m .	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	m .	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	m .	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	m .	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	n .	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	11	ND		1.00	"	"	"	"	"	
Ethylbenzene	11	ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	11	ND		4.00	"	"	"	"	"	
2-Hexanone	"	ND		10.0	"	"	"	"	"	
Isopropylbenzene	"	ND		2.00	"	"	"	"	"	

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1122-09	Water	041021-09	Sample	ed: 10/2	1/04 17:00	)					·
p-Isopropyltolu	ene	EPA 8260B	ND		2.00	ug/l	1x	4110003	11/01/04	11/01/04 16:40	
4-Methyl-2-pen	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzen	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroethe	ene	"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro	ethane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroethen		"	29.0		1.00	"	"	"	"	"	
Trichlorofluoro	methane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 94.5%		Limits:	75 - 120 %	"			"	
- ,,	1,2-DCA-d4		108%			77 - 129 %	"			"	
	Dibromofluoromethane		108%			80 - 121 %	"			"	
	Toluene-d8		107%			80 - 120 %	"			"	

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Golder Associates - Canada

500-4260 Still Creek Drive Burnaby, BC/CAN V5C6C6

WP&YR/Shops/Skagway Project Name:

Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Project Manager: Linda Kemp

Ga	asoline Ran	ge Organi	ics (C6-C10	) per AK	101 - I	aboı	ratory (	<b>Duality</b>	Con	trol Re	esults			
			North Cr	_			•							
QC Batch: 4101503	Wate	r Preparat	ion Method:	EPA 50	30B									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	RPD (	(Limit	s) Analyzed	Note
Blank (4101503-BLK1)								Extr	acted:	10/29/04	16:20			
Gasoline Range Organics	AK101 GRO	ND		80.0	ug/l	1x							10/29/04 16:28	
Surrogate(s): 4-BFB (FID)		Recovery:	76.0%	Limits	: 60-120%	"							10/29/04 16:28	3
LCS (4101503-BS1)								Extr	acted:	10/29/04	16:20			
Gasoline Range Organics	AK101 GRO	978		80.0	ug/l	1x		1000	97.8%	(60-120)			10/29/04 17:23	
Surrogate(s): 4-BFB (FID)		Recovery:	85.0%	Limits	60-120%	"							10/29/04 17:23	3
LCS Dup (4101503-BSD1)								Extr	acted:	10/29/04	16:20			
Gasoline Range Organics	AK101 GRO	1060		80.0	ug/l	1x		1000	106%	(60-120)	8.05%	(20)	10/29/04 17:51	
Surrogate(s): 4-BFB (FID)		Recovery:	83.4%	Limits	60-120%	"							10/29/04 17:51	!
Duplicate (4101503-DUP1)				QC Source:	P4J1080-	)1		Extr	acted:	10/29/04	16:20			
Gasoline Range Organics	AK101 GRO	13200		800	ug/l	10x	13300				0.755%	(50)	10/29/04 18:48	
Surrogate(s): 4-BFB (FID)		Recovery:	87.4%	Limits	60-120%	lx							10/29/04 18:48	3
Duplicate (4101503-DUP2)				QC Source:	P4J1122-	)1		Extr	acted:	10/29/04	16:20			
Gasoline Range Organics	AK101 GRO	18.6		80.0	ug/l	1x	ND				NR	(50)	10/30/04 00:22	
Surrogate(s): 4-BFB (FID)		Recovery:	74.6%	Limits	60-120%	"							10/30/04 00:22	?

North Creek Analytical - Portland

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phone: (907) 563.9200 fax: (907) 563.9210

WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:12 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

#### l Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 Low Volume - Laboratory Quality Control Re North Creek Analytical - Portland

QC Batch: 4101442	Wate	r Preparat	ion Method:	EPA 35	10 Fuels									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limi	ts) Analyzed	Notes
Blank (4101442-BLK1)								Ext	racted:	10/29/04	06:59			
Diesel Range Organics	AK102/103	ND		0.500	mg/l	1x							10/29/04 17:02	
Residual Range Organics	"	ND		0.600	"	"							"	
Surrogate(s): 1-Chlorooctadecar	пе	Recovery:	96.0%	Limits	: 50-150%	"							10/29/04 17:02	
Triacontane			95.6%		50-150%	"							"	
LCS (4101442-BS1)								Ext	racted:	10/29/04	06:59			
Diesel Range Organics	AK102/103	5.33		0.500	mg/l	1x		5.00	107%	(75-125)			11/01/04 20:01	
Residual Range Organics	"	3.57		0.600	"	"		3.01	119%	(60-120)			"	
Surrogate(s): 1-Chlorooctadecar	пе	Recovery:	74.2%	Limits	50-150%	"							11/01/04 20:01	
Triacontane			91.7%		50-150%	"							"	
LCS Dup (4101442-BSD1)								Ext	racted:	10/29/04	06:59			
Diesel Range Organics	AK102/103	5.31		0.500	mg/l	1x		5.00	106%	(75-125)	0.3769	% (20)	11/01/04 20:39	
Residual Range Organics	"	3.30		0.600	"	"		3.01	110%	(60-120)	7.86%	6 "	"	
Surrogate(s): 1-Chlorooctadeca	пе	Recovery:	75.8%	Limits	50-150%	"							11/01/04 20:39	
Triacontane			94.0%		50-150%	"							"	

North Creek Analytical - Portland

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:12 Project Manager: Linda Kemp

#### Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

QC Batch: 4110003	Water	Preparation	n Method:	EPA 5	030B									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limi	ts) Analyzed	Notes
Blank (4110003-BLK1)								Exti	acted:	11/01/04	08:38			
Acetone	EPA 8260B	ND		25.0	ug/l	1x							11/01/04 12:30	
Benzene	"	ND		1.00	"	"							"	
Bromobenzene	"	ND		1.00	"	"							"	
Bromochloromethane	"	ND		1.00	"	"							"	
Bromodichloromethane	"	ND		1.00	"	"							"	
Bromoform	"	ND		1.00	"	"							"	
Bromomethane	"	ND		5.00	"	"							"	
2-Butanone	"	ND		10.0	"	"							"	
n-Butylbenzene	"	ND		5.00	"	"							"	
sec-Butylbenzene	"	ND		1.00	"	"							"	
tert-Butylbenzene	"	ND		1.00	"	"							"	
Carbon disulfide	"	ND		10.0	"	"							"	
Carbon tetrachloride	"	ND		1.00	"	"							"	
Chlorobenzene	"	ND		1.00	"	"							"	
Chloroethane	"	ND		1.00	"	"							"	
Chloroform	"	ND		1.00	"	"							"	
Chloromethane	"	ND		5.00	"	"							"	
2-Chlorotoluene	"	ND		1.00	"	"							"	
4-Chlorotoluene	"	ND		1.00	"	"							"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"							"	
Dibromochloromethane	"	ND		1.00	"	"							"	
1,2-Dibromoethane	"	ND		1.00	"	"							"	
Dibromomethane	"	ND		1.00	"	"							"	
1,2-Dichlorobenzene	"	ND		1.00	"	"							"	
1,3-Dichlorobenzene	"	ND		1.00	"	"							"	
1,4-Dichlorobenzene	"	ND		1.00	"	"							"	
Dichlorodifluoromethane	"	ND		5.00	"	"							"	
1,1-Dichloroethane	"	ND		1.00	"	"							"	
1,2-Dichloroethane	"	ND		1.00	"	"							"	
1,1-Dichloroethene	"	ND		1.00	"	"							"	
cis-1,2-Dichloroethene	"	ND		1.00	"	"							"	
trans-1,2-Dichloroethene	"	ND		1.00	"	,,							"	
1,2-Dichloropropane	"	ND		1.00	"	,,							"	
1,3-Dichloropropane	"	ND		1.00	"	"							"	
2,2-Dichloropropane	"	ND		1.00	"	"							"	
1,1-Dichloropropene	"	ND		1.00	"	,,							"	
cis-1,3-Dichloropropene	"	ND ND		1.00	"	"							"	
trans-1,3-Dichloropropene	"	ND ND		1.00	,,	"							"	
	"	ND ND		1.00	,,	"							"	
Ethylbenzene	,,	ND ND			,,	,,							"	
Hexachlorobutadiene	,,			4.00	"	,,							"	
2-Hexanone	**	ND		10.0									**	

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



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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:12 Project Manager: Linda Kemp

#### Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

QC Batch: 4110003	Water	Preparatio	on Method:	EPA 5	030B									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	REC	(Limits)	% RPD	(Limi	ts) Analyzed	Notes
Blank (4110003-BLK1)								Ext	racted	: 11/01/04	08:38			
Isopropylbenzene	EPA 8260B	ND		2.00	ug/l	1x							11/01/04 12:30	
p-Isopropyltoluene	"	ND		2.00	"	"							"	
4-Methyl-2-pentanone	"	ND		5.00	"	"							"	
Methyl tert-butyl ether	"	ND		1.00	"	"							"	
Methylene chloride	"	ND		5.00	"	"							"	
Naphthalene	"	ND		2.00	"	"							"	
n-Propylbenzene	"	ND		1.00	"	"							"	
Styrene	"	ND		1.00	"	"							"	
1,1,1,2-Tetrachloroethane	"	ND		1.00	"	"							"	
1,1,2,2-Tetrachloroethane	"	ND		1.00	"	"							"	
Tetrachloroethene	"	ND		1.00	"	"							"	
Toluene	"	ND		1.00	"	"							"	
1,2,3-Trichlorobenzene	"	ND		1.00	"	"							"	
1,2,4-Trichlorobenzene	"	ND		1.00	"	"							"	
1,1,1-Trichloroethane	"	ND		1.00	"	"							"	
1,1,2-Trichloroethane	"	ND		1.00	"	"							"	
Trichloroethene	"	ND		1.00	"	"							"	
Trichlorofluoromethane	"	ND		1.00	"	"							"	
1,2,3-Trichloropropane	"	ND		1.00	"	"							"	
1,2,4-Trimethylbenzene	"	ND		1.00	"	"							"	
1,3,5-Trimethylbenzene	"	ND		1.00	"	"							"	
Vinyl chloride	"	ND		1.00	"	"							"	
o-Xylene	"	ND		1.00	"	"							"	
m,p-Xylene	"	ND		2.00	"	"							"	
Surrogate(s): 4-BFB		Recovery:	96.0%	Limit	ts: 75-120%	"							11/01/04 12:3	0
1,2-DCA-d4		•	107%		77-129%	"							"	
Dibromofluoromet	hane		103%		80-121%	"							"	
Toluene-d8			106%		80-120%	"							"	

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**Golder Associates - Canada** WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:12 Project Manager: Linda Kemp

## Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

QC Batch: 4110	0003 Wate	r Preparati	on Method:	EPA 50	30B							
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spik Amt	e % (Limits)	RPD (Lin	nits) Analyzed	Note
LCS (4110003-BS1)								Ex	tracted: 11/01/04	08:38		
Benzene	EPA 8260B	21.0		1.00	ug/l	1x		20.0	105% (80-120)		11/01/04 10:39	
Chlorobenzene	"	21.6		1.00	"	"		"	108% (80-124)		"	
1,1-Dichloroethene	"	17.2		1.00	"	"		"	86.0% (78-120)		"	
Toluene	"	21.1		1.00	"	"		"	106% (80-124)		"	
Γrichloroethene	"	24.0		1.00	"	"		"	120% (80-132)		"	
Surrogate(s): 4-BFB		Recovery:	104%	Limits	75-120%	"					11/01/04 10:39	)
1,2-DCA-a			100%		77-129%	"					"	
	uoromethane		100%		80-121%	"					"	
Toluene-da	8		107%		80-120%	"					"	
Matrix Spike (411000	03-MS1)			QC Source:	P4J1122-0	)1		Ex	tracted: 11/01/04	08:38		
Benzene	EPA 8260B	21.0		1.00	ug/l	1x	ND	20.0	105% (80-124)		11/01/04 11:07	
Chlorobenzene	"	21.4		1.00	"	"	ND	"	107% (72.9-134)		"	
1,1-Dichloroethene	"	20.6		1.00	"	"	ND	"	103% (79.3-127)		"	
Гoluene	"	20.9		1.00	"	"	ND	"	104% (79.7-131)		"	
Γrichloroethene	"	23.6		1.00	"	"	1.67	"	110% (68.4-130)		"	
Surrogate(s): 4-BFB		Recovery:	98.5%	Limits	75-120%	"					11/01/04 11:07	7
1,2-DCA-a	14		100%		77-129%	"					"	
	uoromethane		102%		80-121%	"					"	
Toluene-d	8		106%		80-120%	"					"	
Matrix Spike Dup (41	110003-MSD1)			QC Source:	P4J1122-0	)1		Ex	tracted: 11/01/04	08:38		
Benzene	EPA 8260B	21.5		1.00	ug/l	1x	ND	20.0	108% (80-124)	2.35% (25)	) 11/01/04 11:35	
Chlorobenzene	"	21.7		1.00	"	"	ND	"	108% (72.9-134)	1.39% "	"	
1,1-Dichloroethene	"	21.2		1.00	"	"	ND	"	106% (79.3-127)	2.87% "	"	
Toluene	"	21.4		1.00	"	"	ND	"	107% (79.7-131)	2.36% "	"	
Γrichloroethene	"	24.0		1.00	"	"	1.67	"	112% (68.4-130)	1.68% "	"	
Surrogate(s): 4-BFB		Recovery:	99.0%	Limits	: 75-120%	"					11/01/04 11:35	ī
1,2-DCA-a	14	•	102%		77-129%	"					"	
Dibromofle	uoromethane		103%		80-121%	"					"	
Toluene-da	8		106%		80-120%	"					"	

North Creek Analytical - Portland

Mary a. For Sing



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Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 phone: (907) 563.9200 fax: (907) 563.9210

Golder Associates - Canada Project Name: WP&YR/Shops/Skagway

500-4260 Still Creek DriveProject Number:96-1412-853BReport Created:Burnaby, BC/CAN V5C6C6Project Manager:Linda Kemp11/08/04 17:12

#### **Notes and Definitions**

#### Report Specific Notes:

None

#### **Laboratory Reporting Conventions:**

<u>DET</u> - Analyte <u>DETECTED</u> at or above the Reporting Limit. Qualitative Analyses only.

ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).

NR / NA - Not Reported / Not Available

dry - Sample results reported on a dry weight basis. Reporting Limits are corrected for %Solids when %Solids are <50%.

wet - Sample results and reporting limits reported on a wet weight basis (as received).

RPD - Relative Percent Difference. (RPDs calculated using Results, not Percent Recoveries).

<u>MRL</u> - <u>METHOD REPORTING LIMIT</u>. Reporting Level at, or above, the lowest level standard of the Calibration Table.

<u>MDL\*</u> - <u>METHOD DETECTION LIMIT.</u> Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated results.

<u>Dil</u> - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

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425-420-9200 FAX 420-9210 509-924-9200 FAX 924-9290 503-906-9200 FAX 906-9210 541-383-9310 FAX 382-7588

907-334-9200 FAX 334-9210

	CHAIN OF	CUS	TOI	DY 1	REP	OR	$\mathbf{T}$						Work O	rder #	: MOTHE	iat-	
CLIENT: GOLDER ASS	SOCIATES_			INVO	ICE TO	O:									ROUND R		
REPORT TO: LINDAKER ADDRESS: 500 - 4260 St Burniby, BC PHONE: 604296 206AX: ( PROJECT NAME: 5 Kagway S	nf		l												<b>Business Day</b>		
ADDRESS: 500 - 4260 SX	mil Creek Dr		İ											Organic &	Inorganic An		
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3041021-03 Qt21	104/11:30° L	/ \/		/									W	8			
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NORTH CREEK ANALYTICAL COOLER RECEIPT FORM

(Army Corp. compliant) Client: 1. Please sign for receipt and opening of (sign) W By (print) Date samples received Uix (01/) Date opened: Same Delivered by: \_\_\_NCA courier \_\_\_ FedEx \_\_\_UPS X Courier \_\_\_Client X Other (Put copy of shipping papers in file) Airbill # if applicable There were \_\_\_\_()\_ custody seals present, signed by \_\_\_\_\_\_ date \_\_\_\_/\_\_\_\_. Were the custody seals unbroken and intact at the date and time of arrival? \_\_\_\_Yes \_\_\_\_No Was ice used? X yes \_\_\_\_ no Type of ice: \_\_\_\_ blue ice X \_\_\_gel ice \_\_\_\_real ice Temperature (degrees C) 3419 Raytek thermometer \_\_\_\_\_ Digi-Therm (probe temperature blank) 7. Are custody papers sealed in a plastic bag and taped inside to lid? 8. Were custody papers filled out properly (ink, signed, etc.)? If "no" please specify: Was project identifiable from oustody papers? Name of project (initials) date 10127104 10. Initial and date for unpacking: 11. Packing material: X bubble wrap/bag \_\_\_\_styrofoam X cardboard \_\_\_\_\_ 12. Were samples in bags? 13. Did all containers indicated on the COC arrive? If "no" please indicate which containers were absent \_\_\_\_ 14. Were all containers unbroken and labels in good condition? If "no" please indicate which containers \_\_\_\_\_ 15. Were all bottle labels complete (ID, date, time, signature, etc.)? Do the IDs, times, etc. agree with the COC? If "no" please indicate which containers -21 CS in amour 16. Are containers properly preserved for indicated analysis? No 17. Is there adequate volume for the test(s) requested? ∽ Yes 18. If voa vials were submitted, are they free of bubbles? N/A 19. Log-in phase: Date samples were logged in: 10/27/04 Elm Project # P47/122 21. Was the project manager notified of status? (Use back of form as a record)

Yes Yes No



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

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November 08, 2004

Linda Kemp Golder Associates - Canada 500-4260 Still Creek Drive Burnaby, BC/CAN V5C6C6

RE: WP&YR/Shops/Skagway

Enclosed are the results of analyses for samples received by the laboratory on 10/26/04 14:45. The following list is a summary of the NCA Work Orders contained in this report. If you have any questions concerning this report, please feel free to contact me.

<u>Work</u>	<u>Project</u>	<u>ProjectNumber</u>
P4J1123	WP&YR/Shops/Skagway	96-1412-853B

Thank You,

Mary A. Fritzmann Smith, Project Manager

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> North Creek Analytical, Inc. **Environmental Laboratory Network**



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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:13 Project Manager: Linda Kemp

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
041022-01	P4J1123-01	Water	10/22/04 09:00	10/26/04 14:45
041022-02	P4J1123-02	Water	10/22/04 09:30	10/26/04 14:45
041022-03	P4J1123-03	Water	10/22/04 09:30	10/26/04 14:45
041022-04	P4J1123-04	Water	10/22/04 10:30	10/26/04 14:45
041022-05	P4J1123-05	Water	10/22/04 11:30	10/26/04 14:45
041022-06	P4J1123-06	Water	10/22/04 11:30	10/26/04 14:45
041022-07	P4J1123-07	Water	10/22/04 14:00	10/26/04 14:45
041022-08	P4J1123-08	Water	10/22/04 16:00	10/26/04 14:45
041022-09	P4J1123-09	Water	10/22/04 17:00	10/26/04 14:45
041022-10	P4J1123-10	Water	10/22/04 18:00	10/26/04 14:45
041023-01	P4J1123-11	Water	10/23/04 13:00	10/26/04 14:45
041023-02	P4J1123-12	Water	10/23/04 14:00	10/26/04 14:45

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Report Created:

11/08/04 17:13

Golder Associates - Canada

500-4260 Still Creek Drive Burnaby, BC/CAN V5C6C6

WP&YR/Shops/Skagway Project Name:

Project Number: 96-1412-853B Project Manager: Linda Kemp

## Gasoline Range Organics (C6-C10) per AK101

North Creek Analytical - Portland

				•							
Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-01	Water	041022-01	Sampl	ed: 10/22	/04 09:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/30/04 23:00	
Surrogate(s):	4-BFB (FID)		Recovery: 74.4%		Limits: 6	60 - 120 %	"			"	
P4J1123-02	Water	041022-02	Sampl	ed: 10/22	/04 09:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/30/04 23:27	
Surrogate(s):	4-BFB (FID)		Recovery: 73.4%		Limits: 6	60 - 120 %	"			"	
P4J1123-03	Water	041022-03	Sampl	ed: 10/22	/04 09:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/30/04 23:55	
Surrogate(s):	4-BFB (FID)		Recovery: 76.8%		Limits: 6	60 - 120 %	"			"	
P4J1123-04	Water	041022-04	Sampl	ed: 10/22	/04 10:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/31/04 00:24	
Surrogate(s):	4-BFB (FID)		Recovery: 74.2%		Limits: 6	60 - 120 %	"			"	
P4J1123-05	Water	041022-05	Sampl	ed: 10/22	/04 11:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/31/04 00:51	
Surrogate(s):	4-BFB (FID)		Recovery: 74.4%		Limits: 6	60 - 120 %	"			"	
P4J1123-06	Water	041022-06	Sampl	ed: 10/22	/04 11:30						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/31/04 01:19	
Surrogate(s):	4-BFB (FID)		Recovery: 76.0%		Limits: 6	60 - 120 %	"			"	

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Report Created: 11/08/04 17:13

Golder Associates - Canada

500-4260 Still Creek Drive Burnaby, BC/CAN V5C6C6

WP&YR/Shops/Skagway Project Name:

Project Number: 96-1412-853B Project Manager: Linda Kemp

## Gasoline Range Organics (C6-C10) per AK101

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-07	Water	041022-07	Sampl	ed: 10/22	/04 14:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/31/04 01:47	
Surrogate(s):	4-BFB (FID)	K	ecovery: 74.4%		Limits: 6	60 - 120 %	"			"	
P4J1123-08	Water	041022-08	Sampl	ed: 10/22	/04 16:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/31/04 01:42	
Surrogate(s):	4-BFB (FID)	K	ecovery: 73.8%		Limits: 6	60 - 120 %	"			"	
P4J1123-09	Water	041022-09	Sampl	ed: 10/22	/04 17:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/31/04 02:10	
Surrogate(s):	4-BFB (FID)	K	ecovery: 75.6%		Limits: 6	50 - 120 %	"			"	
P4J1123-10	Water	041022-10	Sampl	ed: 10/22	/04 18:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/31/04 02:37	
Surrogate(s):	4-BFB (FID)	K	ecovery: 76.4%		Limits: 6	60 - 120 %	"			"	
P4J1123-11	Water	041023-01	Sampl	ed: 10/23	/04 13:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/31/04 03:05	
Surrogate(s):	4-BFB (FID)	R	ecovery: 77.4%		Limits: 6	60 - 120 %	"			"	
P4J1123-12	Water	041023-02	Sampl	ed: 10/23	/04 14:00						
Gasoline Range	Organics	AK101 GRO	ND		80.0	ug/l	1x	4101517	10/30/04	10/31/04 03:33	
Surrogate(s):	4-BFB (FID)	R	ecovery: 74.2%		Limits: 6	60 - 120 %	"			"	

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WP&YR/Shops/Skagway

50 - 150 %

2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 phone: (907) 563.9200 fax: (907) 563.9210 Anchorage

Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:13 Project Manager: Linda Kemp

#### Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 Low Volume North Creek Analytical - Portland

Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
041022-01	Sampl	ed: 10/22	2/04 09:00						
AK102/103	ND		0.417	mg/l	1x	4110013	11/01/04	11/01/04 16:44	
"	ND		0.500	"	"	"	"	"	
	Recovery: 65.2%		Limits: .	50 - 150 %	"			"	
	63.8%		-	50 - 150 %	"			"	
041022-02	Sampl	ed: 10/22	2/04 09:30						
AK102/103	ND		0.435	mg/l	1x	4110013	11/01/04	11/01/04 17:23	
"	ND		0.522	"	"	"	"	"	
	Recovery: 69.8%		Limits: .	50 - 150 %	"			"	
	67.8%			50 - 150 %	"			"	
041022-03	Sampl	ed: 10/22	2/04 09:30						
AK102/103	ND		0.417	mg/l	1x	4110013	11/01/04	11/01/04 18:03	
"	ND		0.500	"	"	"	"	"	
	Recovery: 76.2%		Limits: .	50 - 150 %	"			"	
	73.1%			50 - 150 %	"			"	
041022-04	Sampl	ed: 10/22	2/04 10:30						
AK102/103	ND		0.435	mg/l	1x	4110013	11/01/04	11/01/04 18:42	
"	ND		0.522	"	"	"	"	"	
	Recovery: 104%		Limits: .	50 - 150 %	"			"	
	041022-01 AK102/103 " 041022-02 AK102/103 " 041022-03 AK102/103 "	Method         Result           041022-01         Sampl           AK102/103         ND           "         ND           Recovery: 65.2% 63.8%           041022-02         Sampl           AK102/103         ND           "         ND           Recovery: 69.8% 67.8%           041022-03         Sampl           AK102/103         ND           "         ND           Recovery: 76.2% 73.1%           041022-04         Sampl           AK102/103         ND           "         ND           ND         ND	Method         Result         MDL*           041022-01         Sampled: 10/22           AK102/103         ND            ND            Recovery: 65.2%         63.8%           041022-02         Sampled: 10/22           AK102/103         ND            Recovery: 69.8%         67.8%           041022-03         Sampled: 10/22           AK102/103         ND            Recovery: 76.2%         73.1%           041022-04         Sampled: 10/22           AK102/103         ND	Method         Result         MDL*         MRL           041022-01         Sampled: 10/22/04 09:00           AK102/103         ND          0.417           "ND          0.500           Recovery: 65.2% 63.8%         Limits: 2.663.8%           Colspan="3">AK102/103         ND          0.435           "ND          0.522           Recovery: 69.8% Limits: 2.667.8%           Colspan="3">Colspan="	Method         Result         MDL*         MRL         Units           041022-01         Sampled: 10/22/04 09:00         0.417 mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	041022-01         Sampled: 10/22/04 09:00           AK102/103         ND          0.417         mg/l         1x           ND          0.500         "         "           Recovery: 65.2% 63.8%         Limits: 50 - 150 % "         "           63.8%         50 - 150 % "         "           AK102/103         ND          0.435 mg/l         1x           ND          0.522 "         "           Recovery: 69.8% 67.8%         Limits: 50 - 150 % "         "           67.8%         50 - 150 % "         "           AK102/103         ND          0.500 "         "           Recovery: 76.2% 73.1%         Limits: 50 - 150 % "         "           AK102/103         ND          0.500 "         "           041022-04         Sampled: 10/22/04 10:30         "           AK102/103         ND          0.435 mg/l         1x           ND          0.435 mg/l         1x           ND          0.522 "         "	Method         Result         MDL*         MRL         Units         Dil         Batch           041022-01         Sampled: 10/22/04 09:00	Method         Result         MDL*         MRL         Units         Dil         Batch         Prepared           041022-01         Sampled: 10/22/04 09:00	Method         Result         MDL*         MRL         Units         Dil         Batch         Prepared         Analyzed           041022-01         Sampled: 10/22/04 09:00

103%

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phone: (541) 383.9310 fax: 541.382.7588 **Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 phone: (907) 563.9200 fax: (907) 563.9210

Golder Associates - Canada Project Name: WP&YR/Shops/Skagway

500-4260 Still Creek DriveProject Number:96-1412-853BReport Created:Burnaby, BC/CAN V5C6C6Project Manager:Linda Kemp11/08/04 17:13

# <u>Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 Low Volume</u> North Creek Analytical - Portland

			North Citt		101						
Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-05	Water	041022-05	Sampl	ed: 10/22	2/04 11:30	0					
Diesel Range O	Organics	AK102/103	ND		0.417	mg/l	1x	4110013	11/01/04	11/01/04 19:21	
Residual Range	Organics	"	ND		0.500	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 90.8%		Limits:	50 - 150 %	"			"	
	Triacontane		91.0%			50 - 150 %	"			"	
P4J1123-06	Water	041022-06	Sampl	ed: 10/22	2/04 11:30	0					
Diesel Range O	Organics	AK102/103	ND		0.400	mg/l	1x	4110013	11/01/04	11/01/04 14:46	
Residual Range	-	"	ND		0.480	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 122%		Limits:	50 - 150 %	"			"	
	Triacontane		122%			50 - 150 %	"			"	
P4J1123-07	Water	041022-07	Sampl	ed: 10/22	2/04 14:00	0					
Diesel Range O	rganics	AK102/103	ND		0.500	mg/l	1x	4110013	11/01/04	11/01/04 15:26	
Residual Range	Organics	"	ND		0.600	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 84.7%		Limits:	50 - 150 %	"			"	
	Triacontane		86.2%			50 - 150 %	"			"	
P4J1123-08	Water	041022-08	Sampl	ed: 10/22	2/04 16:00	0					
Diesel Range O	rganics	AK102/103	ND		0.417	mg/l	1x	4110013	11/01/04	11/01/04 16:05	
Residual Range	Organics	"	ND		0.500	"	"	"	"	"	
Surrogate(s):	1-Chlorooctadecane		Recovery: 95.2%		Limits:	50 - 150 %	"			"	
	Triacontane		97.4%			50 - 150 %	"			"	

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Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 phone: (907) 563.9200 fax: (907) 563.9210

WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:13 Linda Kemp Project Manager:

#### Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 Low Volume North Creek Analytical - Portland

North Creek Analytical - Portland												
Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
P4J1123-09	Water	041022-09	Sampl	ed: 10/22	2/04 17:0	0						
Diesel Range Organics	5	AK102/103	ND		0.417	mg/l	1x	4110013	11/01/04	11/01/04 16:44		
Residual Range Organ	ics	"	ND		0.500	"	"	"	"	"		
Surrogate(s): 1-Chle	orooctadecane		Recovery: 87.0%		Limits:	50 - 150 %	"			"		
Triaco	ontane		88.8%			50 - 150 %	"			"		
P4J1123-10	Water	041022-10	Sampl	ed: 10/22	2/04 18:0	0						
Diesel Range Organics	S	AK102/103	ND		0.400	mg/l	1x	4110013	11/01/04	11/01/04 17:23		
Residual Range Organ	ics	"	ND		0.480	"	"	"	"	"		
Surrogate(s): 1-Chlo	orooctadecane		Recovery: 129%		Limits:	50 - 150 %	"			"		
Triace	ontane		131%			50 - 150 %	"			"		
P4J1123-11	Water	041023-01	Sampl	ed: 10/23	3/04 13:0	0						
Diesel Range Organics	3	AK102/103	ND		0.417	mg/l	1x	4110013	11/01/04	11/01/04 18:03		
Residual Range Organ	ics	"	ND		0.500	"	"	"	"	"		
Surrogate(s): 1-Chlo	orooctadecane		Recovery: 116%		Limits:	50 - 150 %	"			"		
Triaco	ontane		115%			50 - 150 %	"			"		
P4J1123-12	Water	041023-02	Sampl	ed: 10/23	3/04 14:0	0						
Diesel Range Organics	3	AK102/103	ND		0.500	mg/l	1x	4110013	11/01/04	11/01/04 18:42		
Residual Range Organ	ics	"	ND		0.600	"	"	"	"	"		
Surrogate(s): 1-Chlo	orooctadecane		Recovery: 92.1%		Limits:	50 - 150 %	"			"	<u> </u>	

98.5%

50 - 150 %

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-01 Water	041022-01	Samp	oled: 10/22	/04 09:00						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 12:06	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	11	ND		5.00	"	"	"	"	"	
2-Butanone	11	ND		10.0	"	"	"	"	"	
n-Butylbenzene	11	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND		1.00	"	"	"	"	"	
Carbon disulfide	"	ND		10.0	"	"	"	"	•	
Carbon tetrachloride	"	ND		1.00	"	"	"	"	"	
Chlorobenzene	"	ND		1.00	"	"	"	"	"	
Chloroethane	"	ND		1.00	"	"	"	"	"	
Chloroform	"	ND		1.00	"	"	"	"	"	
Chloromethane	"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	11	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	"	"	"	
Dibromochloromethane	11	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	11	ND		1.00	"	"	"	"	"	
Dibromomethane	11	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	11	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	11	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	11	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	11	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	11	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND		1.00	"	"	"	"		
cis-1,3-Dichloropropene	"	ND		1.00	"	"	"	"		
trans-1,3-Dichloropropene	"	ND		1.00	"	"	"	"		
Ethylbenzene	"	ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND		4.00	"	"	"	"	"	
2-Hexanone	"	ND		10.0	"	"	"	"	"	
Isopropylbenzene	"	ND ND		2.00	"	"	"	"	"	
isopropyrochzene		ND		2.00						

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-01	Water	041022-01	Sample	ed: 10/22	2/04 09:00	)					
p-Isopropyltolu	ene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 12:06	
4-Methyl-2-pen		"	ND		5.00	"	"	"	"	"	
Methyl tert-buty		"	ND		1.00	"	"	"	"	"	
Methylene chlor		"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzen	ie	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrachl	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrachl		"	ND		1.00	"	"	"	"	"	
Tetrachloroethe		"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichlorol	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichlorol		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroethene		"	ND		1.00	"	"	"	"	"	
Trichlorofluoro		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro		"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethyl		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethyl		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 89.0%		Limits:	75 - 120 %	"			"	
- ','	1,2-DCA-d4		126%			77 - 129 %	"			"	
	Dibromofluoromethane		118%			80 - 121 %	"			"	
	Toluene-d8		111%			80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

P4   P4   P4   P5   P5   P5   P5   P5	Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
Berne	P4J1123-02	Water	041022-02	Samp	oled: 10/22	/04 09:30						
Bromobenzene   ND   1.00	Acetone		EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 12:33	
Somechiorentehane   ND   1.00	Benzene		"	ND		1.00	"	"	"	"	"	
Somodichloromethane   ND   1.00	Bromobenzene		"	ND		1.00	"	"	"	"	"	
Some   ND	Bromochlorometh	ane	"	ND		1.00	"	"	"	"	"	
Brommethane   ND   S00   ND   ND   ND   ND   ND   ND   ND	Bromodichlorome	thane	"	ND		1.00	"	"	"	"	"	
2-Butanone         ND	Bromoform		"	ND		1.00	"	"	"	"	"	
ND	Bromomethane		"	ND		5.00	"	"	"	"	"	
Belly in Personal Comment   Substitution   Substi	2-Butanone		"	ND		10.0	"	"	"	"	"	
sec-Butylbenzene         "         ND         —         1.00         "	n-Butylbenzene		"	ND		5.00	"	"	"	"	"	
tert-Bulylbenzene         "ND         1.00         "ND	•		"	ND		1.00	"	"	"	"	"	
Carbon disulfide         ND         ND         10.0         "			"	ND		1.00	"	"	"	"	"	
Chloroethane   ND	-		"	ND		10.0	"	"	"	"	"	
Chloroteliane   ND   1.00   ND   ND   ND   ND   ND   ND   ND	Carbon tetrachlori	de	"	ND		1.00	"	"	"	"	"	
Chloroform  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chloromethane	Chloroethane		"	ND		1.00	"	"	"	"	"	
Solution    Chloroform		II .	ND		1.00	"	"	"	"	"		
2-Chlorotoluene         "         ND          1.00         "	Chloromethane		"	ND		5.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane   " ND			"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane   " ND	4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
Dibromochloromethane         "ND         1.00         "ND		loropropane	"	ND		5.00	"	"	"	"	"	
1,2-Dibromoethane			"	ND		1.00	"	"	"	"	"	
Dibromomethane         "         ND			"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene         "ND	•		"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene         "ND		ene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene         "ND         1.00         """"""""""""""""""""""""""""""""""""	•		"	ND			"	"	"	"	"	
Dichlorodifluoromethane         "ND         5.00         """"""""""""""""""""""""""""""""""""			"				"	"	"	"	"	
1,1-Dichloroethane         "         ND          1.00         " </td <td>•</td> <td></td> <td>"</td> <td></td> <td></td> <td></td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	•		"				"	"	"	"	"	
ND   ND   ND   ND   ND   ND   ND   ND			"	ND			"	"	"	"	"	
1,1-Dichloroethene       "       10.9        1.00       " <td< td=""><td>•</td><td></td><td>"</td><td>ND</td><td></td><td>1.00</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></td<>	•		"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene         "         10.9          1.00         " <t< td=""><td>•</td><td></td><td>"</td><td>ND</td><td></td><td>1.00</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></t<>	•		"	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene " ND 1.00 " " " " " " " " " " 1,2-Dichloropropane " ND 1.00 " " " " " " " " " " " " 1,3-Dichloropropane " ND 1.00 " " " " " " " " " " " " " " 1,1-Dichloropropane " ND 1.00 " " " " " " " " " " " " " " " " " "	•		"			1.00	"	"	"	"	"	
1,2-Dichloropropane       "       ND        1.00       "			II .				"	"	"	"	"	
1,3-Dichloropropane       "       ND        1.00       "			"			1.00	"	"	"	"	"	
2,2-Dichloropropane       "ND        1.00       """"""""""""""""""""""""""""""""""""			II .				"	"	"	"	"	
1,1-Dichloropropene       "       ND        1.00       "			II .				"	"	"	"	"	
cis-1,3-Dichloropropene         "         ND          1.00         " <t< td=""><td></td><td></td><td>"</td><td></td><td></td><td></td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></t<>			"				"	"	"	"	"	
trans-1,3-Dichloropropene " ND 1.00 " " " " " " " " " Ethylbenzene " ND 1.00 " " " " " " " " " " " " " " " " " "			"				"	"	"	"	"	
Ethylbenzene       "       ND        1.00       "			"				"	"	"	"	"	
Hexachlorobutadiene         " ND 4.00 " " " " " " "           2-Hexanone         " ND 10.0 " " " " " " "		L-opene	"				"	"	"	"	"	
2-Hexanone " ND 10.0 " " " " "		ene	"				"	"	"	"	"	
		0110	"				"	"	"	"	"	
INDITION INDICATE AND AND	Isopropylbenzene		"	ND		2.00	"	"	"	"	"	

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-02	Water	041022-02	Sample	ed: 10/22	2/04 09:30	1					
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 12:33	
4-Methyl-2-per	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzei	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroetl		"	1.64		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroether		"	20.6		1.00	"	"	"	"	"	
Trichlorofluoro		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro		"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 91.5%		Limits:	75 - 120 %	"			"	_
_ ,,	1,2-DCA-d4		111%			77 - 129 %	"			"	
	Dibromofluoromethane		106%			80 - 121 %	"			"	
	Toluene-d8		98.0%			80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-03 Water	041022-03	Samp	led: 10/22	/04 09:30						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 12:59	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	"	ND		10.0	"	"	"	"	"	
n-Butylbenzene	"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND		1.00	"	"	"	"	"	
Carbon disulfide	"	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND		1.00	"	"	"	"	"	
Chlorobenzene	"	ND		1.00	"	"	"	"	"	
Chloroethane	"	ND		1.00	"	"	"	"	"	
Chloroform	"	ND		1.00	"	"	"	"	"	
Chloromethane	"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	"	"	"	
Dibromochloromethane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND		1.00	"	"	"	"	"	
Dibromomethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	10.7		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	II .	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	II .	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	II .	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	II .	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	m .	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	m .	ND		1.00	"	"	"	"	"	
Ethylbenzene	m .	ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	m .	ND		4.00	"	"	"	"	"	
2-Hexanone	m .	ND		10.0	"	"	"	"	"	
Isopropylbenzene	n	ND		2.00	"	"	"	"	"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-03	Water	041022-03	Sample	ed: 10/22	2/04 09:30						
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 12:59	
4-Methyl-2-per	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but		"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroeth		"	1.66		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroether		"	20.4		1.00	"	"	"	"	"	
Trichlorofluoro	methane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro		"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 89.0%		Limits:	75 - 120 %	"			"	
0 ()	1,2-DCA-d4		112%		7	77 - 129 %	"			"	
	Dibromofluoromethane		108%			80 - 121 %	"			"	
	Toluene-d8		95.0%		8	80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-04 W	ater	041022-04	Samp	led: 10/22	/04 10:30						
Acetone		EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 13:26	
Benzene		"	ND		1.00	"	"	"	"	"	
Bromobenzene		"	ND		1.00	"	"	"	"	"	
Bromochloromethane		"	ND		1.00	"	"	"	"	"	
Bromodichloromethane		"	ND		1.00	"	"	"	"	"	
Bromoform		"	ND		1.00	"	"	"	"	"	
Bromomethane		"	ND		5.00	"	"	"	"	"	
2-Butanone		"	ND		10.0	"	"	"	"	"	
n-Butylbenzene		"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene		"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene		"	ND		1.00	"	"	"	"	"	
Carbon disulfide		"	ND		10.0	"	"	"	"	"	
Carbon tetrachloride		"	ND		1.00	"	"	"	"	"	
Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chloroethane		"	ND		1.00	"	"	"	"	"	
Chloroform		"	ND		1.00	"	"	"	"	"	
Chloromethane		"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropr	opane	"	ND		5.00	"	"	"	"	"	
Dibromochloromethane		"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane		"	ND		1.00	"	"	"	"	"	
Dibromomethane		"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene		"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene		"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene		"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethan	e	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane		"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene		"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene		"	13.5		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	;	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane		"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane		"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane		"	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene		"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene		m .	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloroprope		"	ND		1.00	"	"	"	"	"	
Ethylbenzene		m .	ND		1.00	n	"	"	"	"	
Hexachlorobutadiene		m .	ND		4.00	n	"	"	"	"	
2-Hexanone		"	ND		10.0	"	"	"	"	"	
Isopropylbenzene		"	ND		2.00	"	"	"	"	"	

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-04	Water	041022-04	Sampl	ed: 10/22	2/04 10:30	)					
p-Isopropyltolu	ene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 13:26	
4-Methyl-2-pen	tanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-buty	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	ride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzen	e	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrachl	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrachl	loroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroethe		"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichlorol	penzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichlorol	penzene	"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloroe		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloroe	ethane	"	ND		1.00	"	"	"	"	"	
Trichloroethen		"	13.3		1.00	"	"	"	"	"	
Trichlorofluoro		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro		"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethyl		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethyl		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 88.5%		Limits:	75 - 120 %	"			"	
	1,2-DCA-d4		114%			77 - 129 %	"			"	
	Dibromofluoromethane		108%			80 - 121 %	"			"	
	Toluene-d8		96.0%			80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

# **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-05 Water	041022-05	Samp	oled: 10/22	/04 11:30						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 13:52	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	n	ND		10.0	"	"	"	"	"	
n-Butylbenzene	n	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	n	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	n	ND		1.00	"	"	"	"	"	
Carbon disulfide	n .	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	n .	ND		1.00	"	"	"	"	"	
Chlorobenzene	n	ND		1.00	"	"	"	"	"	
Chloroethane	n	ND		1.00	"	"	"	"	"	
Chloroform	n .	ND		1.00	"	"	"	"	"	
Chloromethane	n .	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	n .	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	n .	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	n .	ND		5.00	"	"	"	"	"	
Dibromochloromethane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND		1.00	"	"	"	"	"	
Dibromomethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	n .	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	n .	9.02		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	n .	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	n .	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	n .	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	n .	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
Ethylbenzene	"	ND		1.00	"	"	"	,,	"	
Hexachlorobutadiene	"	ND		4.00	"	"	"	"	•	
2-Hexanone	"	ND		10.0	"	"	"	"	•	
Isopropylbenzene	"	ND		2.00	"	"	"	"	"	
творгоругоениене		ND		2.00						

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-05	Water	041022-05	Sample	ed: 10/22	2/04 11:30						
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 13:52	
4-Methyl-2-per	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	"	ND		1.00	"	"	"	"	"	
Styrene		m .	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	m .	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroeth		"	2.39		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroether		"	16.3		1.00	"	"	"	"	"	
Trichlorofluoro		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro		"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 87.0%		Limits:	75 - 120 %	"			"	_
	1,2-DCA-d4		112%			77 - 129 %	"			"	
	Dibromofluoromethane		104%			80 - 121 %	"			"	
	Toluene-d8		99.0%		ė	80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

P4   1123-06   Nater   P4   82608   ND	Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
Bernachen   ND	P4J1123-06	Water	041022-06	Samp	oled: 10/22	/04 11:30						
Bromobenzene   ND   1.00	Acetone		EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 14:19	
Somewhate   ND   1.00	Benzene		"	ND		1.00	"	"	"	"	"	
Stromotichtoromethane   ND   1.00	Bromobenzene		"	ND		1.00	"	"	"	"	"	
Some   ND	Bromochloromethane		"	ND		1.00	"	"	"	"	"	
Southern	Bromodichloromethan	ne	"	ND		1.00	"	"	"	"	"	
Solution	Bromoform		"	ND		1.00	"	"	"	"	"	
ND	Bromomethane		"	ND		5.00	"	"	"	"	"	
Seco-Butylbenzene   ND   ND   ND   ND   ND   ND   ND   N	2-Butanone		"	ND		10.0	"	"	"	"	"	
ND	n-Butylbenzene		"	ND		5.00	"	"	"	"	"	
Carbon disulfide	sec-Butylbenzene		"	ND		1.00	"	"	"	"	"	
Carbon tetrachloride         ND          1.00         " </td <td>tert-Butylbenzene</td> <td></td> <td>"</td> <td>ND</td> <td></td> <td>1.00</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	tert-Butylbenzene		"	ND		1.00	"	"	"	"	"	
Chloroethane   ND   1.00	Carbon disulfide		"	ND		10.0	"	"	"	"	"	
Chloroethane	Carbon tetrachloride		"	ND		1.00	"	"	"	"	"	
Chloroform  ND  ND  1.00  1.00  ND	Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chlorotolune Chloromethane ND	Chloroethane		"	ND		1.00	"	"	"	"	"	
2-Chlorotoluene	Chloroform		"	ND		1.00	"	"	"	"	"	
A-Chlorotoluene	Chloromethane		"	ND		5.00	"	"	"	"	"	
1.2-Dibromo-3-chloropropane   "	2-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
	4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	1,2-Dibromo-3-chloro	propane	"	ND		5.00	"	"	"	"	"	
1,2-Dichlorobenzene	Dibromochloromethar	ne	"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	1,2-Dibromoethane		"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	Dibromomethane		"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene " ND 1.00 " " " " " " " " " " " " " " " " " "	1,2-Dichlorobenzene		"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane " ND 5.00 " " " " " " " " " " " " " " " " " "	1,3-Dichlorobenzene		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethane         "         ND          1.00         " </td <td>1,4-Dichlorobenzene</td> <td></td> <td>"</td> <td>ND</td> <td></td> <td>1.00</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	1,4-Dichlorobenzene		"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropane 1,1-Dichloropropane 1,1-Dichloropropane 1,1-Dichloropropane 1,1-Dichloropropane 1,1-Dichloropropane 1,1-Dichloropropane 1,1-Dichloropropene		ane	n .	ND		5.00	"	"	"	"	"	
1,1-Dichloroethene       "ND        1.00       """"""""""""""""""""""""""""""""""""	1,1-Dichloroethane		n .	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene       "       ND        1.00       "	1,2-Dichloroethane		"	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene " ND 1.00 " " " " " " " " " " 1,2-Dichloropropane " ND 1.00 " " " " " " " " " " " " " " " 1,3-Dichloropropane " ND 1.00 " " " " " " " " " " " " " " " " " "			"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane       "       ND        1.00       "	•	ie	II .	9.54		1.00	"	"	"	"	"	
1,2-Dichloropropane       "       ND        1.00       "			"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane       "       ND        1.00       "	·		"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane       "       ND        1.00       "			"	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene       " ND 1.00 " " " " " " " " "         cis-1,3-Dichloropropene       " ND 1.00 " " " " " " " " "         trans-1,3-Dichloropropene       " ND 1.00 " " " " " " " " "         Ethylbenzene       " ND 1.00 " " " " " " " " " "         Hexachlorobutadiene       " ND 4.00 " " " " " " " " " "         2-Hexanone       " ND 10.0 " " " " " " " " " "			"				"	"	"	"	"	
cis-1,3-Dichloropropene         "         ND          1.00         " <t< td=""><td></td><td></td><td>"</td><td>ND</td><td></td><td>1.00</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></t<>			"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene " ND 1.00 " " " " " " " " " Ethylbenzene " ND 1.00 " " " " " " " " " " " " " " " " " "		ne	"				"	"	"	"	"	
Ethylbenzene       "       ND        1.00       "			"				"	"	"	"	"	
Hexachlorobutadiene         " ND 4.00 " " " " " " "           2-Hexanone         " ND 10.0 " " " " " " "		r <del>-</del>	n .				"	"	"	"	"	
2-Hexanone " ND 10.0 " " " " "			n .				"	"	"	"	"	
			n .				"	"	"	"	"	
	Isopropylbenzene		n .	ND		2.00	"	"	"	"	"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-06	Water	041022-06	Sample	ed: 10/22	2/04 11:30						
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 14:19	
4-Methyl-2-per	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but		"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroeth		"	2.48		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroether		"	17.3		1.00	"	"	"	"	"	
Trichlorofluoro	methane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro		"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 88.5%		Limits:	75 - 120 %	"			"	
0 ()	1,2-DCA-d4		112%		7	77 - 129 %	"			"	
	Dibromofluoromethane		114%			80 - 121 %	"			"	
	Toluene-d8		106%		8	80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

#### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-07 Water	041022-07	Samp	led: 10/22	/04 14:00						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 14:45	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	"	ND		10.0	"	"	"	"	"	
n-Butylbenzene	"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND		1.00	"	"	"	"	"	
Carbon disulfide	"	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND		1.00	"	"	"	"	"	
Chlorobenzene	"	ND		1.00	"	"	"	"	"	
Chloroethane	"	ND		1.00	"	"	"	"	"	
Chloroform	"	ND		1.00	"	"	"	"	"	
Chloromethane	"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	"	"	"	
Dibromochloromethane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND		1.00	"	"	"	"	"	
Dibromomethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	4.12		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
Ethylbenzene	"	ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND		4.00	"	"	"	"	"	
2-Hexanone	"	ND		10.0	"	"	"	"	"	
Isopropylbenzene	"	ND		2.00	"	"	"	"	"	

North Creek Analytical - Portland

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-07	Water	041022-07	Sample	ed: 10/22	2/04 14:00	)					
p-Isopropyltolu	ene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 14:45	
4-Methyl-2-pen		"	ND		5.00	"	"	"	"	"	
Methyl tert-buty	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	ride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzen	e	m .	ND		1.00	"	"	"	"	"	
Styrene		m .	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	m .	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroethe	ene	"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichlorol	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichlorol	benzene	"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro	ethane	m .	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		m .	ND		1.00	"	"	"	"	"	
Trichloroethen		"	9.48		1.00	"	"	"	"	"	
Trichlorofluoro	methane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethyl		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethyl		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 88.5%		Limits:	75 - 120 %	"			"	
- ','	1,2-DCA-d4		112%			77 - 129 %	"			"	
	Dibromofluoromethane		106%			80 - 121 %	"			"	
	Toluene-d8		98.0%			80 - 120 %	"			"	

North Creek Analytical - Portland



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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

#### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-08 Water	041022-08	Samp	oled: 10/22	/04 16:00						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 15:12	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	"	ND		1.00	"	"	"	"	"	
Bromomethane	"	ND		5.00	"	"	"	"	"	
2-Butanone	"	ND		10.0	"	"	"	"	"	
n-Butylbenzene	n .	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	n .	ND		1.00	"	"	"	"	"	
Carbon disulfide	n .	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	n .	ND		1.00	"	"	"	"	"	
Chlorobenzene	"	ND		1.00	"	"	"	"	"	
Chloroethane	n .	ND		1.00	"	"	"	"	"	
Chloroform	n .	ND		1.00	"	"	"	"	"	
Chloromethane	n .	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	n .	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	n .	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	e "	ND		5.00	"	"	"	"	"	
Dibromochloromethane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND		1.00	"	"	"	"	"	
Dibromomethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	n .	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	n .	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND		1.00	"	"	"	"	"	
Ethylbenzene	"	ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND		4.00	"	"	"	"	"	
2-Hexanone	"	ND		10.0	"	"	"	"	"	
Isopropylbenzene	n .	ND		2.00	"	"	"	"	"	

North Creek Analytical - Portland

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-08	Water	041022-08	Sampl	ed: 10/22	2/04 16:00	)					
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 15:12	
4-Methyl-2-per	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	tyl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach		"	ND		1.00	"	"	"	"	"	
Tetrachloroeth		"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroethen		"	ND		1.00	"	"	"	"	"	
Trichlorofluoro	omethane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 87.5%		Limits:	75 - 120 %	"			"	
	1,2-DCA-d4		113%			77 - 129 %	"			"	
	Dibromofluoromethane	:	108%			80 - 121 %	"			"	
	Toluene-d8		92.0%		d	80 - 120 %	"			"	

North Creek Analytical - Portland



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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-09	Water	041022-09	Samp	oled: 10/22	/04 17:00						
Acetone		EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 15:39	
Benzene		"	ND		1.00	"	"	"	"	"	
Bromobenzene		"	ND		1.00	"	"	"	"	"	
Bromochlorometh	ane	"	ND		1.00	"	"	"	"	"	
Bromodichlorome	thane	"	ND		1.00	"	"	"	"	"	
Bromoform		"	ND		1.00	"	"	"	"	"	
Bromomethane		"	ND		5.00	"	"	"	"	"	
2-Butanone		"	ND		10.0	"	"	"	"	"	
n-Butylbenzene		"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene		"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene		"	ND		1.00	"	"	"	"	"	
Carbon disulfide		"	ND		10.0	"	"	"	"	"	
Carbon tetrachlori	de	"	ND		1.00	"	"	"	"	"	
Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chloroethane		"	ND		1.00	"	"	"	"	"	
Chloroform		"	ND		1.00	"	"	"	"	"	
Chloromethane		"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-ch	loropropane	"	ND		5.00	"	"	"	"	"	
Dibromochlorome	thane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethan	e	"	ND		1.00	"	"	"	"	"	
Dibromomethane		"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenze	ene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenze	ene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenze	ene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluorom	nethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethan	e	"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethan	e	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethen	e	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroet	thene	"	1.22		1.00	"	"	"	"	"	
trans-1,2-Dichloro	ethene	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropa		"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroprope		"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropr		"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloro		"	ND		1.00	"	"	"	"	"	
Ethylbenzene	- *	"	ND		1.00	"	"	"	"	"	
Hexachlorobutadio	ene	"	ND		4.00	"	"	"	"	"	
2-Hexanone		"	ND		10.0	"	"	"	"	"	
Isopropylbenzene		"	ND		2.00	"	"	"	"	"	

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Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-09	Water	041022-09	Sample	ed: 10/22	2/04 17:00	)					
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 15:39	
4-Methyl-2-pen	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	yl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzen	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach		"	ND		1.00	"	"	"	"	"	
Tetrachloroethe	ene	"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro	ethane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro		"	ND		1.00	"	"	"	"	"	
Trichloroethen		"	3.33		1.00	"	"	"	"	"	
Trichlorofluoro	methane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 90.0%		Limits:	75 - 120 %	"			"	
	1,2-DCA-d4		115%			77 - 129 %	"			"	
	Dibromofluoromethane		108%			80 - 121 %	"			"	
	Toluene-d8		99.0%			80 - 120 %	"			"	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

#### **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-10 Water	041022-10	Samp	oled: 10/22	/04 18:00						
Acetone	EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 16:05	
Benzene	"	ND		1.00	"	"	"	"	"	
Bromobenzene	"	ND		1.00	"	"	"	"	"	
Bromochloromethane	"	ND		1.00	"	"	"	"	"	
Bromodichloromethane	"	ND		1.00	"	"	"	"	"	
Bromoform	II .	ND		1.00	"	"	"	"	"	
Bromomethane	II .	ND		5.00	"	"	"	"	"	
2-Butanone	H .	ND		10.0	"	"	"	"	"	
n-Butylbenzene	"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND		1.00	"	"	"	"	"	
Carbon disulfide	"	ND		10.0	"	"	"	"	"	
Carbon tetrachloride	n .	ND		1.00	"	"	"	"	"	
Chlorobenzene	n .	ND		1.00	"	"	"	"	"	
Chloroethane	n .	ND		1.00	"	"	"	"	"	
Chloroform	n	ND		1.00	"	"	"	"	"	
Chloromethane	II .	ND		5.00	"	"	"	"	"	
2-Chlorotoluene	II .	ND		1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropand	e "	ND		5.00	"	"	"	"	"	
Dibromochloromethane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND		1.00	"	"	"	"	"	
Dibromomethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropane	n .	ND		1.00	.,	"	"	,,	"	
1,3-Dichloropropane	n .	ND		1.00	.,	"	"	,,	"	
2,2-Dichloropropane	n .	ND		1.00	.,	"	"	,,	"	
1,1-Dichloropropene	"	ND		1.00	,,	"	"	"	"	
cis-1,3-Dichloropropene	"	ND ND		1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND ND		1.00	"	"	"	"	"	
Ethylbenzene	"	ND ND		1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND ND		4.00	"	"	"	"	"	
2-Hexanone	"	ND ND		10.0	"	"	,,	"	"	
					"	"	"	"	"	
Isopropylbenzene		ND		2.00				••	~	

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-10	Water	041022-10	Sample	ed: 10/22	2/04 18:00						
p-Isopropyltolu	iene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 16:05	
4-Methyl-2-per	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	tyl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	loroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroeth	ene	"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro	ethane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro	ethane	"	ND		1.00	"	"	"	"	"	
Trichloroether	ne	"	2.32		1.00	"	"	"	"	"	
Trichlorofluoro	omethane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 82.5%		Limits:	75 - 120 %	"			"	
2 (/	1,2-DCA-d4		112%			77 - 129 %	"			"	
	Dibromofluoromethane		107%			80 - 121 %	"			"	
	Toluene-d8		98.5%		8	80 - 120 %	"			"	

North Creek Analytical - Portland



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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-11	Water	041023-01	Samp	oled: 10/23/	04 13:00						
Acetone		EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 16:32	
Benzene		"	ND		1.00	"	"	"	"	"	
Bromobenzene		"	ND		1.00	"	"	"	"	"	
Bromochlorometha	ane	"	ND		1.00	"	"	"	"	"	
Bromodichlorome	thane	"	ND		1.00	"	"	"	"	"	
Bromoform		"	ND		1.00	"	"	"	"	"	
Bromomethane		"	ND		5.00	"	"	"	"	"	
2-Butanone		"	ND		10.0	"	"	"	"	"	
n-Butylbenzene		"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene		"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene		"	ND		1.00	"	"	"	"	"	
Carbon disulfide		"	ND		10.0	"	"	"	"	"	
Carbon tetrachlorie	de	"	ND		1.00	"	"	"	"	"	
Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chloroethane		"	ND		1.00	"	"	"	"	"	
Chloroform		"	ND		1.00	"	"	"	"	"	
Chloromethane		"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-chl	loropropane	"	ND		5.00	"	"	"	"	"	
Dibromochlorome		"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethan	e	"	ND		1.00	"	"	"	"	"	
Dibromomethane		"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenze	ne	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenze		"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenze		"	ND		1.00	"	"	"	"	"	
Dichlorodifluorom		"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethan		"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethan		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethen		"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroet		"	2.08		1.00	"	"	"	"	"	
trans-1,2-Dichloro		"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropa		"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropa		"	ND		1.00	"		"	"	"	
1,1-Dichloroprope		"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropr		"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloro		"	ND		1.00	"	"	"	"	"	
Ethylbenzene	properie	"	ND		1.00	"	"	"	,,	"	
Hexachlorobutadie	ene	"	ND		4.00	"	"	"	"		
2-Hexanone	,11C	"	ND		10.0	"	"	"	"		
Isopropylbenzene		"	ND		2.00	"	"	"	,,	"	
isopropyroenzene			ND		2.00						

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-11	Water	041023-01	Sample	ed: 10/23	3/04 13:00	)				_	_
p-Isopropyltolue	ene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 16:32	
4-Methyl-2-pent		"	ND		5.00	"	"	"	"	"	
Methyl tert-buty	l ether	"	ND		1.00	"	"	"	"	"	
Methylene chlor	ride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzene	e	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrachl	oroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrachl		"	ND		1.00	"	"	"	"	"	
Tetrachloroether		"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichlorob	enzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichlorob		"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloroe		"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloroe		"	ND		1.00	"	"	"	"	"	
Trichloroethen		"	5.25		1.00	"	"	"	"	"	
Trichlorofluoror	nethane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichlorop		"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethyll		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethyll		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		Recovery: 87.0%		Limits:	75 - 120 %	"			"	
- ','	1,2-DCA-d4		110%			77 - 129 %	"			"	
	Dibromofluoromethane	:	107%			80 - 121 %	"			"	
	Toluene-d8		97.5%			80 - 120 %	"			"	

North Creek Analytical - Portland



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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-12	Water	041023-02	Samp	oled: 10/23	/04 14:00						
Acetone		EPA 8260B	ND		25.0	ug/l	1x	4110146	11/03/04	11/03/04 16:58	
Benzene		"	ND		1.00	"	"	"	"	"	
Bromobenzene		"	ND		1.00	"	"	"	"	"	
Bromochlorometh	ane	"	ND		1.00	"	"	"	"	"	
Bromodichlorome	thane	"	ND		1.00	"	"	"	"	"	
Bromoform		"	ND		1.00	"	"	"	"	"	
Bromomethane		"	ND		5.00	"	"	"	"	"	
2-Butanone		"	ND		10.0	"	"	"	"	"	
n-Butylbenzene		"	ND		5.00	"	"	"	"	"	
sec-Butylbenzene		"	ND		1.00	"	"	"	"	"	
tert-Butylbenzene		"	ND		1.00	"	"	"	"	"	
Carbon disulfide		"	ND		10.0	"	"	"	"	"	
Carbon tetrachlori	de	"	ND		1.00	"	"	"	"	"	
Chlorobenzene		"	ND		1.00	"	"	"	"	"	
Chloroethane		"	ND		1.00	"	"	"	"	"	
Chloroform		"	ND		1.00	"	"	"	"	"	
Chloromethane		"	ND		5.00	"	"	"	"	"	
2-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
4-Chlorotoluene		"	ND		1.00	"	"	"	"	"	
1,2-Dibromo-3-ch	loropropane	"	ND		5.00	"	"	"	"	"	
Dibromochlorome	thane	"	ND		1.00	"	"	"	"	"	
1,2-Dibromoethan	e	"	ND		1.00	"	"	"	"	"	
Dibromomethane		"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenze	ene	"	ND		1.00	"	"	"	"	"	
1,3-Dichlorobenze	ene	"	ND		1.00	"	"	"	"	"	
1,4-Dichlorobenze	ene	"	ND		1.00	"	"	"	"	"	
Dichlorodifluoron	nethane	"	ND		5.00	"	"	"	"	"	
1,1-Dichloroethan	e	"	ND		1.00	"	"	"	"	"	
1,2-Dichloroethan	e	"	ND		1.00	"	"	"	"	"	
1,1-Dichloroethen	e	"	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroet	thene	"	2.64		1.00	"	"	"	"	"	
trans-1,2-Dichloro	ethene	"	ND		1.00	"	"	"	"	"	
1,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,3-Dichloropropa		"	ND		1.00	"	"	"	"	"	
2,2-Dichloropropa		"	ND		1.00	"	"	"	"	"	
1,1-Dichloroprope		"	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropi		"	ND		1.00	"	"	"	"	"	
trans-1,3-Dichloro		"	ND		1.00	"	"	"	"	"	
Ethylbenzene		"	ND		1.00	"	"	"	"	"	
Hexachlorobutadio	ene	"	ND		4.00	"	"	"	"	"	
2-Hexanone	•	"	ND		10.0	"	"	"	"	"	
Isopropylbenzene		"	ND		2.00	"	"	"	"	"	
- FFJ											

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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

## **Volatile Organic Compounds per EPA Method 8260B**

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
P4J1123-12	Water	041023-02	Sampl	ed: 10/23	3/04 14:00						
p-Isopropyltoli	iene	EPA 8260B	ND		2.00	ug/l	1x	4110146	11/03/04	11/03/04 16:58	
4-Methyl-2-per	ntanone	"	ND		5.00	"	"	"	"	"	
Methyl tert-but	tyl ether	"	ND		1.00	"	"	"	"	"	
Methylene chlo	oride	"	ND		5.00	"	"	"	"	"	
Naphthalene		"	ND		2.00	"	"	"	"	"	
n-Propylbenzer	ne	"	ND		1.00	"	"	"	"	"	
Styrene		"	ND		1.00	"	"	"	"	"	
1,1,1,2-Tetrach	nloroethane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrach	nloroethane	"	ND		1.00	"	"	"	"	"	
Tetrachloroeth	ene	"	ND		1.00	"	"	"	"	"	
Toluene		"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,2,4-Trichloro	benzene	"	ND		1.00	"	"	"	"	"	
1,1,1-Trichloro	oethane	"	ND		1.00	"	"	"	"	"	
1,1,2-Trichloro	oethane	"	ND		1.00	"	"	"	"	"	
Trichloroethe	ne	"	6.00		1.00	"	"	"	"	"	
Trichlorofluoro	omethane	"	ND		1.00	"	"	"	"	"	
1,2,3-Trichloro	propane	"	ND		1.00	"	"	"	"	"	
1,2,4-Trimethy		"	ND		1.00	"	"	"	"	"	
1,3,5-Trimethy		"	ND		1.00	"	"	"	"	"	
Vinyl chloride		"	ND		1.00	"	"	"	"	"	
o-Xylene		"	ND		1.00	"	"	"	"	"	
m,p-Xylene		"	ND		2.00	"	"	"	"	"	
Surrogate(s).	: 4-BFB		Recovery: 87.0%		Limits:	75 - 120 %	"			"	
2 17	1,2-DCA-d4		114%			77 - 129 %	"			"	
	Dibromofluoromethane		110%			80 - 121 %	"			"	
	Toluene-d8		100%		d	80 - 120 %	"			"	

North Creek Analytical - Portland

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Report Created:

11/08/04 17:13

Golder Associates - Canada

500-4260 Still Creek Drive Burnaby, BC/CAN V5C6C6

WP&YR/Shops/Skagway Project Name:

Project Number: 96-1412-853B Project Manager: Linda Kemp

#### North Creek Analytical - Portland QC Batch: 4101517 Water Preparation Method: EPA 5030B Source Spike % (Limits) % (Limits) Analyzed Result Amt REC Analyte Method Result MDL\* MRL Units Extracted: 10/30/04 16:22 Blank (4101517-BLK1) AK101 GRO ND 10/30/04 21:37 Gasoline Range Organics 80.0 ug/l 1x10/30/04 21:37 Surrogate(s): 4-BFB (FID) Recovery: 74.4% Limits: 60-120% CS (4101517-RS1) Extracted: 10/30/04 16:22

Gasoline Range Organics (C6-C10) per AK101 - Laboratory Quality Control Results

LCS (4101517-DS1)							EX	1acteu: 10/30/04 1	0.22		
Gasoline Range Organics	AK101 GRO	1080		80.0	ug/l	1x	 1000	108% (60-120)		 10/30/04 22:04	
Surrogate(s): 4-BFB (FID)		Recovery: 8	34.4%	Limits:	60-120%	ó "				10/30/04 22:04	

LCS Dup (4101517-BSD1)							Ext	tracted: 10/30/04	16:22		
Gasoline Range Organics	AK101 GRO	987		80.0	ug/l	1x	 1000	98.7% (60-120)	9.00% (20)	10/30/04 22:32	
Surrogate(s): 4-BFB (FID)		Recovery:	82.4%	Limits.	: 60-120%	ó "				10/30/04 22:32	

<b>Duplicate</b> (4101517-DUP1)				QC Source:	: P4J111	6-04RE1		Ext	racted:	10/30/0	4 16:22	
Gasoline Range Organics	AK101 GRO	914		80.0	ug/l	1x	765				17.7% (50)	10/31/04 04:57
Surrogate(s): 4-BFB (FID)		Recovery: 98	8.8%	Limits	: 60-1209	% "						10/31/04 04:57

Duplicate (4101517-DUP2)				QC Source:	P4J112	3-12		Ex	tracted:	10/30/04	16:22		
Gasoline Range Organics	AK101 GRO	23.0		80.0	ug/l	1x	ND				NR	(50)	10/31/04 04:01
Surrogate(s): 4-BFB (FID)		Recovery:	74.0%	Limits	: 60-1209	% "							10/31/04 04:01

North Creek Analytical - Portland

Many a. For Sing



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WP&YR/Shops/Skagway Golder Associates - Canada Project Name:

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

#### l Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 Low Volume - Laboratory Quality Control Re North Creek Analytical - Portland

QC Batch: 4110013	Wate	r Preparat	ion Method:	EPA 35	10 Fuels								
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% (L	imits) Analyzed	Notes
Blank (4110013-BLK1)								Ext	racted:	11/01/04	08:20		
Diesel Range Organics	AK102/103	ND		0.500	mg/l	1x						11/01/04 14:46	
Residual Range Organics	"	ND		0.600	"	"						"	
Surrogate(s): 1-Chlorooctadeca	ne	Recovery:	87.7%	Limits	: 50-150%	"						11/01/04 14:46	
Triacontane			86.9%		50-150%	"						"	
LCS (4110013-BS1)								Ext	racted:	11/01/04	08:20		
Diesel Range Organics	AK102/103	5.49		0.500	mg/l	1x		5.00	110%	(75-125)		11/01/04 15:26	
Residual Range Organics	"	3.33		0.600	"	"		3.01	111%	(60-120)		"	
Surrogate(s): 1-Chlorooctadeca	ne	Recovery:	76.7%	Limits	50-150%	"						11/01/04 15:26	
Triacontane			96.8%		50-150%	"						"	
LCS Dup (4110013-BSD1)								Ext	racted:	11/01/04	08:20		
Diesel Range Organics	AK102/103	4.69		0.500	mg/l	1x		5.00	93.8%	(75-125)	15.7% (2	20) 11/01/04 16:05	
Residual Range Organics	"	2.85		0.600	"	"		3.01	94.7%	(60-120)	15.5% "	"	
Surrogate(s): 1-Chlorooctadeca	ne	Recovery:	71.5%	Limits	50-150%	"						11/01/04 16:05	
Triacontane			87.5%		50-150%	"						"	

North Creek Analytical - Portland

Many a. For Sings



Golder Associates - Canada

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 phone: (425) 420.9200 fax: (425) 420.9210 **Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 phone: (509) 924.9200 fax: (509) 924.9290

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WP&YR/Shops/Skagway

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Burnaby, BC/CAN V5C6C6 Project Manager: Linda Kemp

Project Name:

#### Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

QC Batch: 4110146	Water	Preparation	n Method:	EPA 5	030B									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limi	ts) Analyzed	Notes
Blank (4110146-BLK1)								Exti	acted:	11/03/04	08:15			
Acetone	EPA 8260B	ND		25.0	ug/l	1x							11/03/04 10:20	
Benzene	"	ND		1.00	"	"							"	
Bromobenzene	"	ND		1.00	"	"							"	
Bromochloromethane	"	ND		1.00	"	"							"	
Bromodichloromethane	"	ND		1.00	"	"							"	
Bromoform	"	ND		1.00	"	"							"	
Bromomethane	"	ND		5.00	"	"							"	
2-Butanone	"	ND		10.0	"	"							"	
n-Butylbenzene	"	ND		5.00	"	"							"	
sec-Butylbenzene	"	ND		1.00	"	"							"	
tert-Butylbenzene	"	ND		1.00	"	"							"	
Carbon disulfide	"	ND		10.0	"	"							"	
Carbon tetrachloride	"	ND		1.00	"	"							"	
Chlorobenzene	"	ND		1.00	"	"							"	
Chloroethane	"	ND		1.00	"	"							"	
Chloroform	"	ND		1.00	"	"							"	
Chloromethane	"	ND		5.00	"	"							"	
2-Chlorotoluene	"	ND		1.00	"	"							"	
4-Chlorotoluene	"	ND		1.00	"	"							"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"							"	
Dibromochloromethane	"	ND		1.00	"	"							"	
1,2-Dibromoethane	"	ND		1.00	"	"							"	
Dibromomethane	"	ND		1.00	"	"							"	
1,2-Dichlorobenzene	"	ND		1.00	"	"							"	
1,3-Dichlorobenzene	"	ND		1.00	"	"							"	
1,4-Dichlorobenzene	"	ND		1.00	"	"							"	
Dichlorodifluoromethane	"	ND		5.00	"	"							"	
1,1-Dichloroethane	"	ND		1.00	"	"							"	
1,2-Dichloroethane	"	ND		1.00	"	"							"	
1,1-Dichloroethene	"	ND		1.00	"	"							"	
cis-1,2-Dichloroethene	"	ND		1.00	"	"							"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"							"	
1,2-Dichloropropane	"	ND		1.00	"	"							"	
1,3-Dichloropropane	"	ND		1.00	"	"							"	
2,2-Dichloropropane	"	ND		1.00	"	"							"	
1,1-Dichloropropene	"	ND		1.00	"	"							"	
cis-1,3-Dichloropropene	"	ND		1.00	"	,,							,,	
trans-1,3-Dichloropropene	"	ND		1.00	"	,,							,,	
Ethylbenzene	"	ND ND		1.00	"	"							"	
Hexachlorobutadiene	"	ND ND		4.00	"	"							"	
	"	ND ND		10.0	,,	,,							"	
2-Hexanone	**	ND		10.0									**	

North Creek Analytical - Portland

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



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Anchorage

Golder Associates - Canada WP&YR/Shops/Skagway Project Name:

99.0%

500-4260 Still Creek Drive Project Number: 96-1412-853B Report Created: Burnaby, BC/CAN V5C6C6 11/08/04 17:13 Project Manager: Linda Kemp

#### Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

QC Batch: 4110146	Wate	r Preparation	Method:	EPA 5	030B									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limi	its) Analyzed	Notes
Blank (4110146-BLK1)								Ext	racted:	11/03/04	08:15			
Isopropylbenzene	EPA 8260B	ND		2.00	ug/l	1x							11/03/04 10:20	
p-Isopropyltoluene	"	ND		2.00	"	"							"	
4-Methyl-2-pentanone	"	ND		5.00	"	"							"	
Methyl tert-butyl ether	"	ND		1.00	"	"							"	
Methylene chloride	"	ND		5.00	"	"							"	
Naphthalene	"	ND		2.00	"	"							"	
n-Propylbenzene	"	ND		1.00	"	"							"	
Styrene	"	ND		1.00	"	"							"	
1,1,2-Tetrachloroethane	"	ND		1.00	"	"							"	
1,1,2,2-Tetrachloroethane	"	ND		1.00	"	"							"	
Tetrachloroethene	"	ND		1.00	"	"							"	
Toluene	"	ND		1.00	"	"							"	
1,2,3-Trichlorobenzene	"	ND		1.00	"	"							"	
1,2,4-Trichlorobenzene	"	ND		1.00	"	"							"	
1,1,1-Trichloroethane	"	ND		1.00	"	"							"	
1,1,2-Trichloroethane	"	ND		1.00	"	"							"	
Trichloroethene	"	ND		1.00	"	"							"	
Trichlorofluoromethane	"	ND		1.00	"	"							"	
1,2,3-Trichloropropane	"	ND		1.00	"	"							"	
1,2,4-Trimethylbenzene	"	ND		1.00	"	"							"	
1,3,5-Trimethylbenzene	"	ND		1.00	"	"							"	
Vinyl chloride	"	ND		1.00	"	"							"	
o-Xylene	"	ND		1.00	"	"							"	
m,p-Xylene	"	ND		2.00	"	"							"	
Surrogate(s): 4-BFB		Recovery: 88	3.5%	Limit	ts: 75-120%	"							11/03/04 10:2	0
1,2-DCA-d4			11%		77-129%	"							"	
Dibromofluoromet	thane	1	04%		80-121%	"							"	

80-120%

North Creek Analytical - Portland

Mary a. For Sing

Toluene-d8



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Golder Associates - Canada

500-4260 Still Creek Drive Burnaby, BC/CAN V5C6C6

WP&YR/Shops/Skagway Project Name:

Project Number: 96-1412-853B Report Created: 11/08/04 17:13 Project Manager: Linda Kemp

#### Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results North Creek Analytical - Portland

OC Bate	ch: 4110146	Water	· Prenarati	ion Method:	EPA 503	80B									
Analyte		lethod	Result	MDL*		Units	Dil	Source Result	Spike Amt	REC	(Limits)	% RPD	(Limit	s) Analyzed	Note
LCS (411014	16-BS1)								Ext	racted:	11/03/04	08:15			
Benzene	EPA	A 8260B	20.1		1.00	ug/l	1x		20.0	100%	(80-120)			11/03/04 08:33	
Chlorobenzene		"	20.0		1.00	"	"		"	100%	(80-124)			"	
1,1-Dichloroethe	ene	"	17.7		1.00	"	"		"	88.5%	(78-120)			"	
Toluene		"	20.0		1.00	"	"		"	100%	(80-124)			"	
Γrichloroethene		"	20.8		1.00	"	"		"	104%	(80-132)			"	
Surrogate(s):	4-BFB		Recovery:	102%	Limits:	75-120%	"							11/03/04 08:33	3
	1,2-DCA-d4			110%		77-129%	"							"	
	Dibrom of luoromethane			97.5%		80-121%	"							"	
	Toluene-d8			104%		80-120%	"							"	
Matrix Spike	(4110146-MS1)				QC Source:	P4K0110-	01		Ext	racted:	11/03/04	08:15			
Benzene	EPA	A 8260B	19.4		1.00	ug/l	1x	ND	20.0	97.0%	(80-124)			11/03/04 09:00	
Chlorobenzene		"	18.8		1.00	"	"	ND	"	94.0%	(72.9-134)			"	
1,1-Dichloroethe	ene	"	19.8		1.00	"	"	ND	"	99.0%	(79.3-127)			"	
Toluene		"	17.8		1.00	"	"	ND	"	89.0%	(79.7-131)			"	
Trichloroethene		"	19.2		1.00	"	"	ND	"	96.0%	(68.4-130)			"	
Surrogate(s):	4-BFB		Recovery:	97.5%	Limits:	75-120%	"							11/03/04 09:00	)
0 ,,	1,2-DCA-d4		•	106%		77-129%	"							"	
	Dibrom of luoromethane			98.0%		80-121%	"							"	
	Toluene-d8			96.5%		80-120%	"							"	
Matrix Spike	Dup (4110146-MS	<b>D</b> 1)			QC Source:	P4K0110-	01		Ext	racted:	11/03/04	08:15			
Benzene	EPA	A 8260B	19.2		1.00	ug/l	1x	ND	20.0	96.0%	(80-124)	1.04%	6 (25)	11/03/04 09:26	
Chlorobenzene		"	17.4		1.00	"	"	ND	"	87.0%	(72.9-134)	7.73%	ó "	"	
1,1-Dichloroethe	ene	"	19.6		1.00	"	"	ND	"	98.0%	(79.3-127)	1.02%	ó "	"	
Toluene		"	17.3		1.00	"	"	ND	"	86.5%	(79.7-131)	2.85%	ó "	"	
Trichloroethene		"	19.0		1.00	"	"	ND	"	95.0%	(68.4-130)	1.05%	ó "	"	
Surrogate(s):	4-BFB		Recovery:	100%	Limits:	75-120%	"							11/03/04 09:20	5
5 -(-)-	1,2-DCA-d4		<i>y</i> .	106%		77-129%	"							"	
	Dibromofluoromethane			99.0%		80-121%	"							"	
	Toluene-d8			97.0%		80-120%	"							"	

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Mary a. For Sing



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Report Created:

11/08/04 17:13

Golder Associates - Canada

500-4260 Still Creek Drive Burnaby, BC/CAN V5C6C6

WP&YR/Shops/Skagway Project Name:

Project Number: 96-1412-853B Project Manager: Linda Kemp

#### **Notes and Definitions**

#### Report Specific Notes:

None

#### Laboratory Reporting Conventions:

Analyte <u>DETECTED</u> at or above the Reporting Limit. Qualitative Analyses only. DET

ND Analyte <u>NOT DETECTED</u> at or above the reporting limit (MDL or MRL, as appropriate).

<u>NR</u> / <u>NA</u> -Not Reported / Not Available

Sample results reported on a dry weight basis. Reporting Limits are corrected for %Solids when %Solids are <50%. <u>dry</u>

- Sample results and reporting limits reported on a wet weight basis (as received). wet

**RPD** Relative Percent Difference. (RPDs calculated using Results, not Percent Recoveries).

MRL METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. MDL\* \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated results.

Dil Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting -Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and limits percent solids, where applicable.

North Creek Analytical - Portland

Many a. For Sing



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503-906-9200 FAX 906-9210 541-383-9310 FAX 382-7588

907-334-9200 FAX 334-9210 [

	CHAIN O	F C	US	TO	DΥ	RE	PO	RT			- 07 25 0110	5 ,		Work O	rder #	: 041022 i	24711
CLIENT: GOLDER	ASSOCIATE	3			INV	OICE	TO:							Т	URNA	ROUND REQUEST	
REPORT TO: LINDA	KEMP														in	Business Days *	
ADDRESS: 500-42	260 Still Creek	Do													Organic &	Inorganic Analyses	
Burnabi	1, BC	•												10 7	5	4 3 2 1	< 1
?HONE:(604-2616 - 78()	)FAX: ( book 1 : 24 % -	<u>525</u>	3		P.O. 1	NUM	BER: (	96-	1412	<u> </u>	353	გ		STD. I	etroleum	Hydrocarbon Analyses	
PROJECT NAME: SKA	quay Srops	-	T	1	<b>.</b>	1	PRES	ERVA	TIVE			<del>- 1 -</del>	<del></del>	(5)	4	3 2 1 <1	]
PROJECT NUMBER: 96	1-1417-05ZQ	Hai	HUI	Ha	HCI		I I I I I I	DD 43	7.1.7.7	are.				310.			
SAMPLED BY: L. K			I	Ţ		REC	QUEST	ED A	NALY	SES			<del></del>	-	HER	Specify:	
		7	0	$C_{\perp}$	0									-	<u> </u>	less than standard may incur Rush (	Charges.
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Noc	GRC	X	RR									MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
041022-01	042204/9 Am	V	/	<b>V</b>	<b>/</b>									W	7	5×40mL Vials	
	Oct 22:04/9:30 AT	V	V	V	V									W	6	4AO ML Vials Only	
	UX 2204/9 30 AM		<u> </u>	V										W	6	4,ACIME VINIS	
041022-04	Oct 22:04/10:30 AM	V	<b>V</b>	/	<u>/_</u>									W	8	,	
	Oct 22'04/ 11:30AM			V	/									W	6	4x90 ml vials	
041022-06	Oct 22'04/1130AM	V	1/	V	<u> </u>									W	6	4x40 milliones	
041022-07	Oct 22:04/ 2 pm	1	1		/									W	8		
041022-08	Oct 22/04 4 pm		/	/	/								ļ	W	8		
041022-09	Octrov 5 pm	<i>i</i> /	/	/	<u>//</u>								<u> </u>	W	8		
041022-10	actrioy/6pm	V	V	/	<u>/</u>							<u> </u>		$ \omega $	X		,
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RINT NAME:	FIRM:				DATE: TIME:					VED BY: NAME:				FIRM:		DATE: TIME:	
DDITIONAL REMARKS:	A AAGTA.											2 ~	<u> </u>	I IIXVI.		TEMP:	
OC REV 1/03												3,9	ζ,	1.9. 4	1,400	PAGE	107 T



11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-9508 11115 E Montgomery Suite B, Spokane, WA 99206-4776 9405 SW Nimbus Ave, Beaverton, OR 97008-7132 20332 Empire Ave Suite F-1, Bend, OR 99701-5711

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503-906-9200 FAX 906-9210 541-383-9310 FAX 382-7588

907-334-9200 FAX 334-9210

CHAIN OF CUSTODY REPORT													Work Order #: 041023P4T									
CLIENT: GOLDER ASSOC	LATE	_S	П	INVOICE TO:									TURNAROUND REQUEST									
REPORT TO: LINDA KEMP ADDRESS: 500-4260 Still ( Buinaby BC PHONE: 64 29638 (604) 299												in Business Days *										
ADDRESS: 500-4260 Still	، ووراد أ										Organic & Inorganic Analyses											
Burnaby BC										5	4 3 2 1	< 1										
PHONE: 64 29628 (64) 299	3 52	53	P.	P.O. NUMBER: 96 1412 853B										etroleum	Hydrocarbon Analyses							
PROJECT NAME: SKAGILLILL SKYDS				PRESERVATIVE									(3)	4	3 2 1 < 1	]						
PROJECT NAME: Stagury Stops PROJECT NUMBER: 96 14(2853)	701	KICK F	101 /r	U									51D.			_						
	, L			RE	QUEST	ED A	NALY	SES					ТО	HER	Specify:							
SAMPLED BY: Linda Kemp	ري [		$ol_{\sigma}$	$\rightarrow$								<u></u>	* Turnaroun	d Requests le	ess than standard may incur Rush	Charges.						
CLIENT SAMPLE SAMPLING IDENTIFICATION DATE/TIME	9	GRC	DRO	X X									IATRIX W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID						
1041023-01 Oct 2364/1	2m /	/ (	/ 1										$\omega$	8								
2041023-02042304 2	im V	V	1	/								(	W	8								
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5																						
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7																						
8																						
9																						

RELEASED BY:		DATE: OCT. 25 200	RECEIVED BY:	River tot	1301-	DATE: (DQ/
PRINT NAME: LINDAKEMP	FIRM: WLDER	TIME: 9 AM	PRINT NAME:	Enca Fot FIRM	4: NGT	TIME: 14
RELEASED BY:		DATE:	RECEIVED BY:			DATE:
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM	M:	TIME:
ADDITIONAL REMARKS:						TEMP: i.

COC REV 1/03

# NORTH CREEK ANALYTICAL COOLER RECEIPT FORM

(Army Corp. compliant)

	ent: VOUV
1.	Please sign for receipt and opening of cooler or other
	By (print) Frica Pot (sign) Enga Fot
2.	Date samples received $U/XU/4$ Date opened: Same or $U/XU/4$
3.	Delivered by:NCA courier FedExUPSCourier ClientCOther Airbill # if applicable (Put copy of shipping papers in file)
1	There were custody seals present, signed by date/
	<del></del>
	Were the custody seals unbroken and intact at the date and time of arrival?YesNo
	Was ice used? <u>yes</u> no Type of ice: blue ice <u>y</u> gel icereal ice emperature (degrees C) 3919 Raytek thermometer Digi-Therm (probe temperature blank)
	Are custody papers sealed in a plastic bag and taped inside to lid? YesNo
8.	Were custody papers filled out properly (ink, signed, etc.)?  YesNo  If "no" please specify:
9.	Was project identifiable from oustody papers? YesNo  Name of project
10.	Initial and date for unpacking: (initials) date 101 27 04
11.	Packing material: _X_bubble wrap/bagstyrofoam _X_cardboardother
	Were samples in bags?  Yes No
13.	Did all containers indicated on the COC arrive? Yes Yes
	If "no" please indicate which containers were absent 12 10 Suns 8 unt - VOIC
14.	Were all containers unbroken and labels in good condition?  Were all containers unbroken and labels in good condition?  Were all containersNo
15.	Were all bottle labels complete (ID, date, time, signature, etc.)?
	Do the IDs, times, etc. agree with the COC?  If "no" please indicate which containers
16.	Are containers properly preserved for indicated analysis? Yes No
17.	Is there adequate volume for the test(s) requested?
18.	If voa vials were submitted, are they free of bubbles? N/A/ Yes No
	Log-in phase: Date samples were logged in: 10/27/04 Elm Project #PAT1123
	Logged in by (print) <u>Callic Fansholz</u> (sign) <u>Callic Fansholz</u>
	Was the project manager notified of status? (Use back of form as a record)  Yes   No

			СН	IAIN (	OF CU	STOD	Y RE	CORI	D/ANAL	YSI	S F	REQ	UE	ST				No.	.04	102	o page L of 4
Go	lder ociates	,		Projec	i Number:	16141	285:	3 B				Li	borato	ry Nai	ne:	N	CH	+			
500 4260 Still Creel	k Drive			Short 1	<u> </u>	Kagu							ddress:								
Burnaby, British Colu Telephone (604) 298-			5253	Golder	Contact:	·Kew	P	Golder E-i	nail Address:	@gol	der.co		elepho	ne/Fax:					Ontac	arc	Smith.
Office the final repor	rts should be sen	ıt to:					•			<u> </u>				Analy	yses Ro	quire	d				· <u></u>
500-4260 Still Burnaby, B.C. V5C 6C6 Tel: (604) 298 Fax: (604) 298	-6623;	_	202 2790 Abbotsford V2T 4S8 Tel: (604) Fax: (604)	850-8786	Road	Victoria, V9A 7N6 Tel: (250)				Containers			)	,							
Sample Control Number (SCN)	Sample Location	Sa.#	Sample Depth (m)	Sample Matrix (over)	Date Sampled (D / M / Y)	Time Sampled (IIII:MM)	Sample Type (over)	QAQC Code (over	Related SCN (over)	Number of Containers	VOCS	620	RRC	JRC						RUSH	Remarks (over)
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041020-02	Mwc0-32	ţ		١,	20/10/04	11:30				łų	$\checkmark$	1	1								
041020-03	KOOWM			<u> </u>		1236				1	<b>V</b>		1/	1/						18	
041020-04	MW00-33				20/10/04	7:30					<b>V</b>	~		· V		_		_	/		
041020-05	MW-34C	1			20/10/04	4:30					$\checkmark$	~	1	1			1	$\bigcup$			
041020-06	MW97-1			V	10/1404	5,30		4			$\checkmark$		V		2/	X	3				
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Sampler's Signature:	Relinquished by: Signature	Company	Date	Time		Received by:	Signature	Compan	y	
Sample Storage (°C)	Relinquished by: Signature	Company	Date	Time		Received by:	Signature	Compan	, y	L
Comments:	Method of Shipment:	Waybill No.:		Received for	Lab by:		Date	Tiı	me \	
	Shipped by:	Shipment Condition: Seal Intact:		Temp (°C)	Cooler open	ed by:	Date	Ti	me \	7

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## CH

No 041021

Golder Associates
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500 - 4260 Still Creek Drive Burnaby, British Columbia, Canada V5C 6C6 Telephone (604) 298-6623 Fax (604) 298-5253

Sample

Location

1441977 She

Sa.#

Office the final reports should be sent to:

500-4260 Still Creek Dr.

Tel: (604) 298-6623;

Fax: (604) 298-5253

1041021 - 01 MW4-Hd 041021-02 Mww.34 1021-03 MW-140

041021-04 MW-1AHC

1021-08 MW98-

041021-09 MW98 . - 10 - 11 - 12

Sampler's Signature:

Sample Storage (°C)

Comments:

Burnaby, B.C.

V5C 6C6

Sample Control

Number (SCN)

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6C6 298-5	5253	ķ	Golder	Contact: L	Kemp	2	Golder B- LKQ	mail Address:	@gol	lder.c		Telepho	ne/Fax	ι: 		Contac	et: Mo	arySmith	
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Cooler opened by:

Date

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# CHAIN OF CUSTODY RECORD/ANALYSIS REQUEST

N9041072 page 3 of 4

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ASS( 500' – 4260 Still Creel		S		Short 1	Title:	1 00 C	4	,Sh,	nail Address:			1	Address:											
Burnaby, British Colu Telephone (604) 298-	mbia, Canada		253	Golder	Contact:	·Ker	L	Golder E-	ntail Address:	@gol	der.co		Telephone/Fax: Contact: May Smith											
Office the final repor	rts should be se	nt to:					<del>-()-</del>		<del>\</del>			–		Analys	ses Req	mired								
500-4260 Still Burnaby, B.C. V5C 6C6 Tel: (604) 298- Fax: (604) 298	Creek Dr. 6623;		202 – 2790 Abbotsford V2T 4S8 Tel: (604) { Fax: (604)	I, B.C. 850-8786	toad [	220 – 174 Victoria, I V9A 7N6 Tel: (250) Fax: (250)	881-7372	eel		ontainers	\$	"	)	0										
Sample Control Number (SCN)	Sample Location	Sa. #	Sample Depth (m)	Sample Matrix (over)	Date Sampled (D / M / Y)	Time Sampled (HH:MM)	Sample Type (over)	QAQC Code (over	Related SCN (over)	Number of Containers	WOG	200	GRC	RR						RUSE	Remarks (over)			
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## CHAIN OF CUSTODY BECORD/ANALYSIS BEOUEST

No. 04102 3 page 200 4

Golder Associates
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Sampler's Signature:

Sample Storage (°C)

Comments:

500 - 4260 Still Creek Dri Burnaby, British Columbia Telephone (604) 298-6623

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rnaby, British Colu elephone (604) 298-	mbia, Canada	V5C 6C6 304) 298-5		Golder	Contact:	),		Golder E-n	25 nail Address:	@gole	der.co		elephor	e/Fax:			C	ontagt:	186	ly Sm	1174		
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