

Golder Associates Inc.

18300 NE Union Hill Road, Suite 200
Redmond, WA USA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498
www.golder.com



February 14, 2005

Our Ref: 923-1000-002.R273

Palmer Coking Coal Company
31407 Highway 169
P.O. Box 10
Black Diamond, Washington 98010

Attention: Mr. Bill Kombol

**RE: LANDSBURG MINE SITE INTERIM GROUNDWATER MONITORING
RESULTS- NOVEMBER, 2004**

Dear Mr. Kombol:

Golder Associates Inc. (Golder) completed an interim groundwater monitoring event at the Landsburg Mine Site during November, 2004. Groundwater samples were collected from monitoring wells LMW-2, LMW-3, LMW-4, LMW-5, LMW-6, LMW-7, LMW-8, LMW-9 and LMW-10 (see Figure 1). Monitoring wells LMW-2, LMW-4 and LMW-10 are completed to monitor shallow and deeper zones within the Rogers coal seam north of the Rogers Coal mine subsidence trench, and LMW-3 and LMW-5 are completed to monitor shallow and deeper zones within the Rogers coal seam south of the subsidence trench. These wells lay along the primary pathways for detection of a chemical release from the mine, were one to occur. Samples were also collected of the groundwater emanating from LMW-8, which is a shallow well monitoring the Rogers Portal #3 discharge and is a replacement for sampling the surface water discharge at the portal. LMW-8 provides a more representative water quality sample of the Rogers Portal #3 discharge than a sample of the surface water. LMW-6 and LMW-7 monitoring wells obtain groundwater from the Frasier and Landsburg coal mines to the west and east of the Rogers coal mine

Groundwater sampling was conducted in accordance with the *Draft Interim Groundwater Monitoring Plan, Landsburg Mine Site* (Golder, 1997), and included the following activities:

- Measurement of static water levels at monitoring wells;
- Well purging to insure sample representativeness with the currently installed dedicated pumping systems;
- Measurement of field parameters pH, specific conductance, temperature, dissolved oxygen, and turbidity;
- Collection of representative samples in appropriate containers; metals samples were field filtered using an inline 0.45 µm filter; and
- Analyses of groundwater for volatile organic compounds (EPA Method 8260), priority pollutant metals and petroleum hydrocarbon identification scan.



The attached Table 1 presents analytical results for all analyses. Laboratory analytical reports are provided in Appendix B. Sampling activities were documented on Sample Integrity Data Sheets (SIDS). Copies of the completed SIDS are provided in Appendix A to this letter. Additionally, elevation data was surveyed for all wells at the project site. The attached Table 2 presents results of the survey, along with water depth measurements collected from wells prior to sampling activities. Groundwater levels are similar to previous monitoring periods and indicate that groundwater is discharging out both ends of the Rogers Coal mine.

Following sample collection, all bottles were sealed, labeled and placed in a cooler maintained at approximately 4° C. All groundwater samples from monitoring wells were transported under chain-of-custody procedures to North Creek Analytical, Inc. for analyses, located in Bothell, Washington. Analysis on all water samples included volatiles by EPA Method 8260, priority metals suite of 13 analytes with the addition of Manganese and Iron, and a fuel hydrocarbon scan.

Screening levels are based on maximum contaminant levels (MCLs) or State of Washington MTCA Method B groundwater cleanup levels whichever value is less. In cases where an established MCL or Method B Cleanup Level does not exist, a similar (surrogate) compound regulatory screening level is identified for comparison.

It should be noted that an accidental introduction of acetone to the laboratory glassware occurred prior to the Interim Groundwater Sampling activities held in November. A full case narrative of the event has been submitted by the laboratory and is attached with the laboratory analytical data as Appendix B to this letter. Metals analysis and the hydrocarbon identification screening were not affected by the acetone contamination; however, acetone concentrations were such as to disallow Golder requested reporting levels from samples collected for VOCs from wells LMW-3, LMW-5, LMW-8 and LMW-9. The reporting limits for vinyl chloride were elevated to the lowest calibration standard of 0.5 µg/L, due to the dilutions necessary for the acetone laboratory accident. This reporting limit is above the MTCA Method A screening levels of 0.2 µg/L, creating a discrepancy in the quality assurance of the water samples. However, this discrepancy is minimal as vinyl chloride has not been observed in previous groundwater samples obtained from the Landsburg Mine Site wells. The laboratory has assured us that the acetone accident is not normal and will not occur in the future.

The analytical results indicate no significant changes in groundwater conditions from those observed during the remedial investigation (RI). One groundwater sample contained detectable organic compounds: LMW-10 had detectable benzene and toluene at 0.24µg/L and 0.31µg/L, respectively. A duplicate sample was also collected from LMW-10 and showed benzene and toluene at 0.23µg/L and 0.29µg/L, respectively. These detections are much below the MTCA levels as follows¹:

- Benzene - MTCA cleanup level is 5µg/L for groundwater and 22.7µg/L for surface water.
- Toluene - MTCA cleanup level is 1000 µg/L for groundwater and 48,500 µg/L for surface water.

The previous groundwater monitoring results from samples collected during the April/May, 2004 and August, 2004 events also showed slight concentrations of both benzene and toluene within LMW-10, though the observed concentrations were slightly higher when compared with current data (April/May

¹ Ecology, Washington State Department of, 2001. *Cleanup Levels and Risk Calculations under the Model Toxics Control Act Cleanup Regulations*. Publication No. 94-145. Olympia, Washington

data showed benzene and toluene at 0.39µg/L and 0.68µg/L, respectively and August data showed benzene and toluene at 0.29µg/L and 0.44µg/L, respectively). Since concentrations of the observed compounds are trace and appear to be decreasing in concentration, it is possible these organic compounds were introduced during the drilling and installation of LMW-10. However, future monitoring periods will provide further evidence whether these detected organic compounds are emanating from the Rogers Coal Seam mine or are merely residual artifacts from the drilling process. Also, chloroform was present in the field blank in slight concentrations. This compound did not show up in any other groundwater or quality control samples allowing the conclusion that it may have been either accidentally introduced during lab processing or was present in the deionized water used for the sample.

Iron and manganese are the only metals that were detected at concentrations in excess of the screening levels of 0.3µg/L and 0.05µg/L, respectively. For these compounds, the only screening levels are secondary maximum contaminant levels (SMCLs) which are not health-based standards, but are protective of aesthetic qualities of water. The concentrations of iron and manganese detected during the November, 2004 sampling are similar to concentrations detected during the RI (Golder, 1996)² and the Interim Groundwater Sampling events held previously.

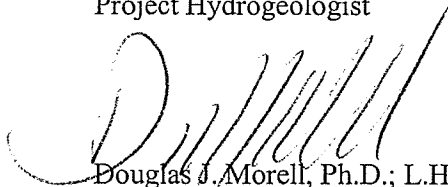
If you have any questions or require any additional information, please contact Douglas Morell at (425) 883-0777.

Sincerely,

GOLDER ASSOCIATES INC.



Ryan Vannier, L.G.
Project Hydrogeologist



Douglas J. Morell, Ph.D.; L.Hy.
Principal

RGV/DJM/se

² Golder Associates Inc., 1996. *Remedial Investigation and Feasibility Study for the Landsburg Mine Site*. Landsburg PLP Steering Committee.

TABLES

TABLE 1

NOVEMBER 2004 GROUNDWATER ANALYTICAL RESULTS
LANDSBURG MINE SITE

ANALYTE	UNITS	LMW-2 11/16/2004	LMW-3 11/17/2004	LMW-4 11/16/2004	LMW-5 11/17/2004	LMW-6 11/16/2004	LMW-7 11/16/2004	LMW-8 11/17/2004	LMW-9 11/17/2004	LMW-10 11/16/2004	DuplicateL MW-10 11/16/2004	Field Blank 11/16/2004	Trip Blank 11/16/2004
Field Parameter													
pH	std	6.88	7.65	6.91	6.89	6.84	7.12	6.87	6.95	8.7	8.7	NA	NA
Conductivity	uS/cm	665	0.8	331	160.6	107.8	445	118.9	275	225	225	NA	NA
Temperature	°C	10.7	10.7	10.8	10.8	9.7	11.9	12.2	11.8	10.1	10.1	NA	NA
Turbidity	NTU	0.24	0.18	0.33	0.20	0.31	1.46	895	2.42	0.87	0.87	NA	NA
Metals													
Antimony	mg/l	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	NT
Arsenic	mg/l	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00165	0.00267	0.001 U	0.00138	0.00135	0.001 U	NT
Beryllium	mg/l	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NT
Cadmium	mg/l	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NT
Chromium	mg/l	0.00181	0.001 U	0.0018	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NT
Copper	mg/l	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NT
Iron	mg/l	0.150 U	0.15 U	0.842	0.479	2.53	1.15	2.68	1.92	0.15 U	0.15 U	0.15 U	NT
Lead	mg/l	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NT
Manganese	mg/l	0.211	0.0844	0.202	0.21	0.031	0.145	0.597	0.16	0.01 U	0.0159	0.01 U	NT
Mercury	mg/l	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	NT
Nickel	mg/l	0.00147	0.001 U	0.00135	0.001 U	0.001 U	0.001	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NT
Selenium	mg/l	0.00311	0.001 U	0.0042	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NT
Silver	mg/l	0.001 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NT
Thallium	mg/l	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NT
Zinc	mg/l	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NT

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NOVEMBER 2004 GROUNDWATER ANALYTICAL RESULTS
LANDSBURG MINE SITE

ANALYTE	UNITS	LMW-2 11/16/2004	LMW-3 11/17/2004	LMW-4 11/16/2004	LMW-5 11/17/2004	LMW-6 11/16/2004	LMW-7 11/16/2004	LMW-8 11/17/2004	LMW-9 11/17/2004	LMW-10 11/16/2004	DuplicateL MW-10 11/16/2004	Field Blank 11/16/2004	Trip Blank 11/16/2004
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1-Trichloroethane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloropropene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3-Trichlorobenzene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3-Trichloropropane	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-Trimethylbenzene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane	µg/L	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichlorobenzene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3,5-Trimethylbenzene	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichloropropane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
2,2-Dichloropropane	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	µg/L	2 U	10 U	2 U	10 U	2 U	2 U	10 U	10 U	2 U	2 U	2 U	2 U
2-Chlorotoluene	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	µg/L	2 U	10 U	2 U	10 U	2 U	2 U	10 U	10 U	2 U	2 U	2 U	2 U
4-Chlorotoluene	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-pentanone	µg/L	2 U	10 U	2 U	10 U	2 U	2 U	10 U	10 U	2 U	2 U	2 U	2 U
Acetone	µg/L	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Benzene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.24	0.23	0.2 U	0.2 U
Bromobenzene	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromomethane	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon disulfide	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	1.16	0.2 U

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NOVEMBER 2004 GROUNDWATER ANALYTICAL RESULTS
LANDSBURG MINE SITE

ANALYTE	UNITS	LMW-2	LMW-3	LMW-4	LMW-5	LMW-6	LMW-7	LMW-8	LMW-9	LMW-10	DuplicateL	Field	Trip Blank
		11/16/2004	11/17/2004	11/16/2004	11/17/2004	11/16/2004	11/16/2004	11/17/2004	11/16/2004	11/17/2004	11/16/2004	MW-10	Blank
Chloromethane	µg/L	1 U	5 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	1 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromomethane	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.5 U	0.5 U
Dichlorodifluoromethane	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.2 U	0.2 U
Ethylbenzene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.5 U	0.5 U
Hexachlorobutadiene	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	µg/L	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	0.5 U	0.5 U	1 U	1 U
Methyl tert-butyl ether	µg/L	1 U	2 U	1 U	2 U	1 U	1 U	2 U	2 U	1 U	1 U	2 U	2 U
Methylene chloride	µg/L	2 U	5 U	2 U	5 U	2 U	2 U	5 U	5 U	2 U	2 U	0.2 U	0.2 U
n-Butylbenzene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.5 U	0.5 U
n-Propylbenzene	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.25 U	0.25 U
o-Xylene	µg/L	0.25 U	1 U	0.25 U	1 U	0.25 U	0.25 U	1 U	1 U	0.25 U	0.25 U	0.2 U	0.2 U
p-Isopropyltoluene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
sec-Butylbenzene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.5 U	0.5 U
Styrene	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.2 U	0.2 U
Tetrachloroethene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.31	0.29	0.2 U	0.2 U
trans-1,2-Dichloroethene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	0.5 U	0.5 U
Trichlorofluoromethane	µg/L	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.2 U	0.2 U
Vinyl chloride	µg/L	0.2 U	1 U	0.2 U	1 U	0.2 U	0.2 U	1 U	1 U	0.2 U	0.2 U	1 U	1 U
Hydrocarbon Identification													
Diesel Range	mg/l	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	NT
Gas Range	mg/l	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NT
Heavy Fuel Oil	mg/l	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	NT
Insulating Oil	mg/l	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	NT
Kerosene Range	mg/l	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	NT
Lube Oil Range	mg/l	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	NT

Notes:

NR Acetone data is not reportable. Vials from lot# 4293060 contaminated with Acetone

GROUNDWATER ELEVATION DATA COLLECTED 11/16/04 LANDSBURG MINE SITE

	UNITS	LMW-1	LMW-2	LMW-3	LMW-4	LMW-5	LMW-6	LMW-7	LMW-8	LMW-9	LMW-10	P-2	Water Drainage	Frazier Seam Tunnel
Water Depths														
Time of data collection	ft bgs	0920	0852	0753	0849	0748	0833	0815	0740	0803	0845	0743	NA	NA
Measured to Top of PVC	ft bgs	146.50	7.01	12.91	8.50*	14.49	34.96	215.83*	4.28	100.25	Artesian	7.52	NA	NA
Measured to Top of Monument	ft bgs	147.27	7.68	NC	9.18*	NC	35.68	216.32*	NC	NC	Artesian	NC	NA	NA
Surveyed Elevation														
Top of PVC	ft asl	NC	NC	656.75	NC	658.27	632.33	NC	646.97	743.99	618.87	651.37	NA	NA
Top of Monument	ft asl	765.89	618.29	657.48	619.85	658.87	633.00	771.88	NC	NC	NC	NC	NA	NA
Ground Level	ft asl	762.90	615.35	654.40	617.09	655.63	629.95	768.79	645.25	741.13	615.75	648.54	551.38	542.15
Corrected Water Elevation														
Using PVC elevation	ft asl	NC	NC	643.84	NC	643.78	597.37	NC	642.69	643.74	Artesian	643.85	NA	NA
Using Monument elevation	ft asl	618.62	610.61	NC	610.67*	NC	597.32	555.56*	NC	NC	Artesian	NC	NA	NA
Notes: * = Data corrected to accomodate well inclination of 70° NA = Not applicable. NC = Data not collected.														

FIGURE

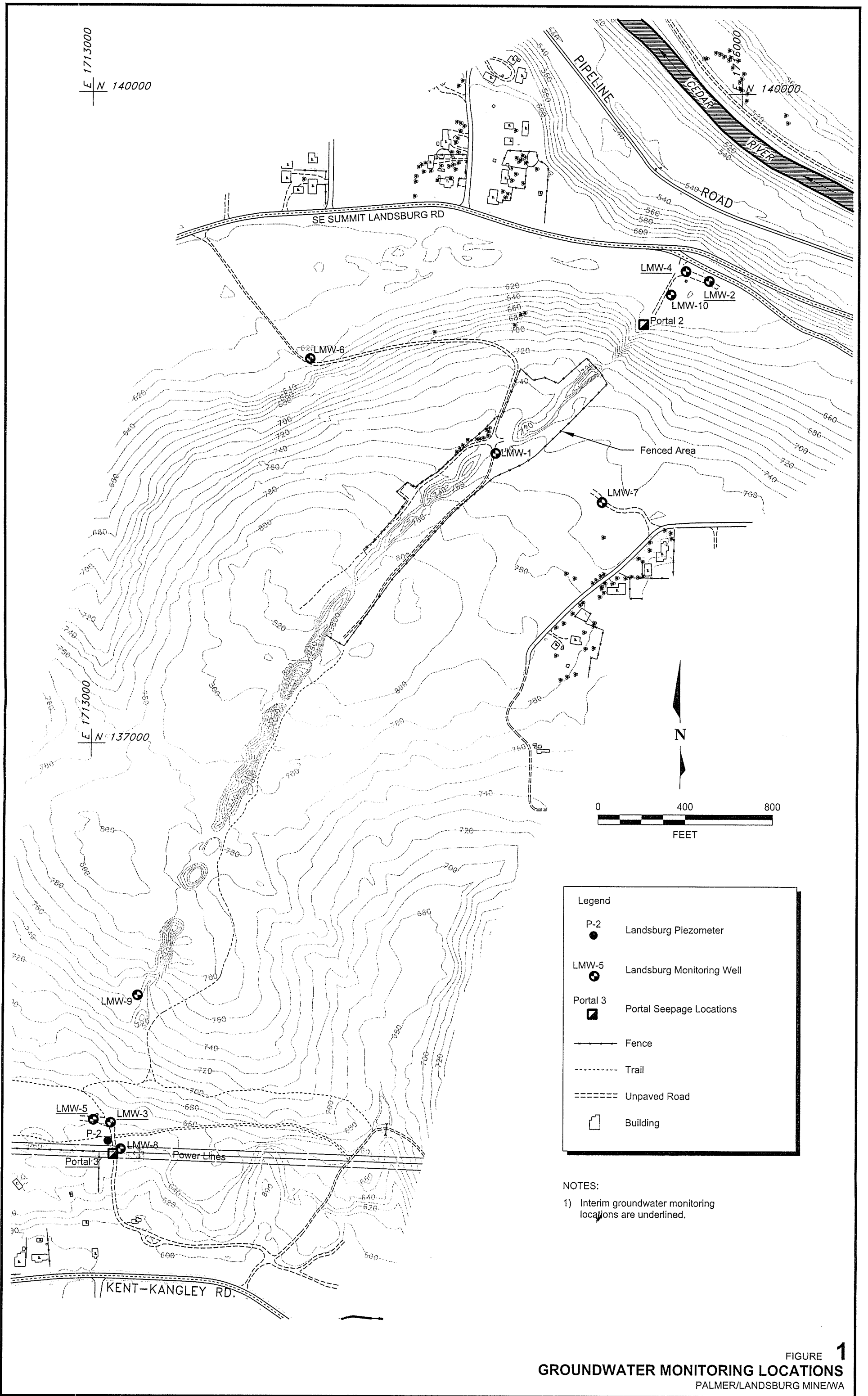


FIGURE 1
GROUNDWATER MONITORING LOCATIONS
 PALMER/LANDSBURG MINE/WA

APPENDIX A

FIELD REPORT FORMS

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002

Site Location Ravensdale, WA Sample ID LMWZ-111604

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

Technical Procedure Reference(s) TP-1.4-6, TP-1.2-20, TP-1.2-23

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date 11/16/04 Time 1110

Media Water Station LMWZ

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL - 7.01 $(39-7.01) \times 0.66 \text{ gal/ft} = 21.11 \text{ gal}$

Sand Pack Interval $25-39 = 14'$ $(14' \times 1.95) = 0.25 = 6.8 \text{ gal}$

Packer Depth - NA $27.9 \text{ gal} \times 3 = 83.7 \text{ gal}$

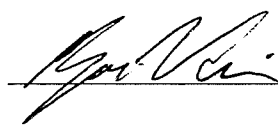
Sample Description Clear water Moderate H₂S odor

Field Measurements on Sample (pH, conductivity, etc.) _____

SEE FIELD PARAMETERS SHEET

Extra for
MS/MSD

	Aliquot Amount	Analysis	Container	Preservation / Amount
6	X - 40 mL	VOA	VOA Vial	HCl
	1 - 500 ml	Metals	HDPE	HNO ₃ (filter)
3	X - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  Date 11/16/04

Supervisor (signature) _____ Date _____

FIELD PARAMETERS SHEET

Well ID LMW-2
 Date 11/16/04
 Time Begin Purge 1020
 Time Collect Sample _____

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	
7.05	1025	10	6.86	774	10.7	0.17	8.65	
7.05	1030	20	6.89	739	10.7	0.18	0.63	
7.05	1035	30	6.88	732	10.7	1.30	0.57	
7.05	1040	40	6.88	718	10.7	0.41	0.34	
7.05	1050	60	6.89	688	10.7	0.10	0.22	
7.05	1100	80	6.88	688 665	10.7	0.08	0.24	

Comments:
 Purge rate ≈ 2 gal/min @ 109.3 Hz
 Generator shut off @ 10:32 and immediately restarted

Sampler's Initials AW

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002

Site Location Ravensdale, WA Sample ID LMW 3-111704

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

Technical Procedure Reference(s) TP-1.4-6, TP-1.2-20, TP-1.2-23

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date 11/17/04 Time 0850

Media Water Station LMW-3

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL - 12.91 $(65-39) \cdot 0.06 \text{ gal/ft} = 17$

Sand Pack Interval 47-69 = 22' $(22 \times 1.95) \cdot 0.25 = 11$

Packer Depth - 39' ; Well bottom = 65' $28 \times 3 = 84 \text{ gal}$

Sample Description Clear Water

Field Measurements on Sample (pH, conductivity, etc.) _____

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
3 - 40 mL	VOA	VOA Vial	HCl
1 - 500 ml	Metals	HDPE	HNO3 (filter)
2 - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  Date 11/17/04

Supervisor (signature) _____ Date _____

FIELD PARAMETERS SHEET

Well ID LMW-3
 Date 11/17/04
 Time Begin Purge 0755
 Time Collect Sample 0850

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU
12.45	0805	17.5 gal	7.69	2.4	10.6	9.16	0.37
-	0810	26.25	7.71	1.5	10.7	8.18	0.61
-	0815	35 gal	7.71	2.8	10.7	7.81	0.23
12.45	0820	43.75 gal	7.70	1.9	10.7	7.84	0.27
-	0825	52.5 gal	7.68	0.5	10.7	7.78	0.20
-	0830	61.25	7.67	0.5	10.7	7.76	0.26
-	0840	78.75	7.65	0.8	10.7	7.67	0.18
-	0845	87.5					

Comments:
 SWL at 12.45' after packer inflate. Packer pressure at 110 psi.
 Purge Rate $\approx 1.75 \text{ gal/min} @ 125.7 \text{ Hz}$

Sampler's Initials RV

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002
 Site Location Ravensdale, WA Sample ID LMW-4
 Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

Technical Procedure Reference(s) TP-1.4-6, TP-1.2-20, TP-1.2-23

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date 11/16/04 Time 1500

Media Water Station LMW-4

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL - 9.07 $(210 - 187) \cdot 0.66 \text{ gal/ft} = 15.2$

Sand Pack Interval $189 - 211 = 22'$ $(22 \times 1.95) \times 0.25 = 10.7$

Packer Depth 187' $26 \text{ gal} \times 3 = 78 \text{ gal}$

Sample Description Clear Water Some H₂S odor

Field Measurements on Sample (pH, conductivity, etc.)

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
3 - 40 mL	VOA	VOA Vial	HCl
1 - 500 ml	Metals	HDPE	HNO ₃ (filter)
2 - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  Date 11/16/04

Supervisor (signature) _____ Date _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002

Site Location Ravensdale, WA Sample ID LMW 5-111704

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

Technical Procedure Reference(s) TP-1.4-6, TP-1.2-20, TP-1.2-23

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date 11/17/04 Time 1000

Media Water Station LMW-5

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL - 14.49 $(242-222) \times 0.66 = 13 \text{ gal} \times 3 = 39 \text{ gal}$

Sand Pack Interval - None

Packer Depth - 222 well bottom 242

Sample Description Clear Water

Field Measurements on Sample (pH, conductivity, etc.) _____

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
<u>3 - 40 mL</u>	<u>VOA</u>	<u>VOA Vial</u>	<u>HCl</u>
<u>1 - 500 ml</u>	<u>Metals</u>	<u>HDPE</u>	<u>HNO3 (filter)</u>
<u>2 - 1 Liter</u>	<u>TPH-HCID</u>	<u>Glass Amber</u>	<u>HCl</u>

Sampler (signature) [Signature] Date 11/17/04

Supervisor (signature) _____ Date _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002

Site Location Ravensdale, WA Sample ID LMW-6 - 111604

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

Technical Procedure Reference(s) TP-1.4-6, TP-1.2-20, TP-1.2-23

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date 11/16/04 Time 1745

Media Water Station LMW-6

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL - 34.96 $(106 - 81) \cdot 0.66 = 17$

Sand Pack Interval 83-106 = 23' $(23 \times 1.95) \cdot 0.25 = 11$

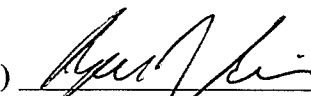
Packer Depth 81' well Bottom = 106' $28 \times 3 = 84 \text{ gal}$

Sample Description Clear Water

Field Measurements on Sample (pH, conductivity, etc.) _____

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
3 - 40 mL	VOA	VOA Vial	HCl
1 - 500 ml	Metals	HDPE	HNO3 (filter)
2 - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  Date 11/16/04

Supervisor (signature) _____ Date _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002

Site Location Ravensdale, WA Sample ID LMW-7

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

Technical Procedure Reference(s) TP-1.4-6, TP-1.2-20, TP-1.2-23

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date 11/16/04 Time 1215

Media Water Station LMW

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL - 229.68 (251 - 229.68) x 0.66 = 16.1 gal = 48 gal

Sand Pack Interval -NA

Packer Depth -NA

Sample Description Clear Water

Field Measurements on Sample (pH, conductivity, etc.)

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
<u>3 - 40 mL</u>	<u>VOA</u>	<u>VOA Vial</u>	<u>HCl</u>
<u>1 - 500 ml</u>	<u>Metals</u>	<u>HDPE</u>	<u>HNO3 (filter)</u>
<u>2 - 1 Liter</u>	<u>TPH-HCID</u>	<u>Glass Amber</u>	<u>HCl</u>

Sampler (signature) [Signature] Date 11/16/04

Supervisor (signature) _____ Date _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002

Site Location Ravensdale, WA Sample ID LMW 8 - 111704

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

Technical Procedure Reference(s) TP-1.4-6, TP-1.2-20, TP-1.2-23

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date 11/17/04 Time 1110

Media Water Station LMW - 8

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL - 4.28 $(13 - 4.28) \times 0.17 = 1.5$

Sand Pack Interval 6-13' bgs $[(13-6) \times 0.25] = 4.5$

^{well} Packer Depth - 13.0' $6.0 \text{ gal} \times 3 = 18.0 \text{ gal}$

Sample Description _____

Field Measurements on Sample (pH, conductivity, etc.) _____

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
<u>3 - 40 mL</u>	<u>VOA</u>	<u>VOA Vial</u>	<u>HCl</u>
<u>1 - 500 ml</u>	<u>Metals</u>	<u>HDPE</u>	<u>HNO3 (filter)</u>
<u>2 - 1 Liter</u>	<u>TPH-HCID</u>	<u>Glass Amber</u>	<u>HCl</u>

Sampler (signature)  Date 11/17/04

Supervisor (signature) _____ Date _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002
 Site Location Ravensdale, WA Sample ID LMW9-111704
 Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

Technical Procedure Reference(s) TP-1.4-6, TP-1.2-20, TP-1.2-23

Type of Sampler Dedicated Pump Grundfos or OED Bladder

Date 11/17/04 Time 1405

Media Water Station LMW-9

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL - 100.25' $(159-100) \times 0.17 = \approx 10 \text{ gal}$

Sand Pack Interval 146-159' $(159-146) \times 255 \times 0.25 = 8 \text{ gal}$

Packer Depth NA well Bottom 159' $18 \text{ gal} / 1 \text{ well vol}$

Sample Description Clear Water $\times 3 = 54 \text{ gal}$

Field Measurements on Sample (pH, conductivity, etc.) _____

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
3 - 40 mL	VOA	VOA Vial	HCl
1 - 500 ml	Metals	HDPE	HNO3 (filter)
2 - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  Date 11/17/04

Supervisor (signature) _____ Date _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002

Site Location Ravensdale, WA Sample ID LMW10-111604

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube Duplicate = LMW11-111604

Technical Procedure Reference(s) TP-1.4-6, TP-1.2-20, TP-1.2-23

Type of Sampler Dedicated Pump Grundfos or OED Bladder Low Flow purge

Date 11/16/04 Time 1545

Media Water Station LMW-11

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL - Artesian

Sand Pack Interval = 287-267

^{Well} Packer Depth = 287' Pump at 80' Pump intake at 277 ft.

Sample Description Clear water

Field Measurements on Sample (pH, conductivity, etc.) _____

SEE FIELD PARAMETERS SHEET

	Aliquot Amount	Analysis	Container	Preservation / Amount
Duplicate Extra 6	X - 40 mL	VOA	VOA Vial	HCl
7	X - 500 ml	Metals	HDPE	HNO3 (filter)
4	X - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature) [Signature] Date 11/16/04

Supervisor (signature) _____ Date _____

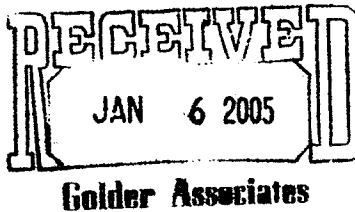
APPENDIX B

LABORATORY DATA



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

15 December 2004



Douglas Morell
Golder Associates Inc.
18300 NE Union Hill Rd, Suite 200
Redmond, WA/USA 98052-3333
RE: Landsburg Mine

Enclosed are **amended** results of analyses for samples received by the laboratory on 11/17/04 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
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541.383.9310 fax 541.382.7588
Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

CASE NARRATIVE for B4K0507 amended

Client: Golder Associates Inc.
Project Manager: Gary Zimmerman
Project Name: Landsburg Mine
Project Number: 923-1000-002

1.0 DESCRIPTION OF CASE

Seven (7) water samples were submitted for the analysis of:

- Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
- Dissolved Metals by EPA 6000/7000 Series Methods
- Volatile Organic Compounds by EPA Method 8260B

2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received and logged in 17th November 2004 at a temperature of 2.6°C. The samples were received in three coolers. Each cooler contained a Trip Blank; which was not listed on the COC. The COC was amended to note the receipt of the Trip Blanks. As per the clients request only the Trip Blank from the cooler containing the voa vial samples was logged in for VOC analysis. The remaining two Trip Blanks were placed on hold.

3.0 PREPARATION AND ANALYSIS

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Dissolved Metals by EPA 6000/7000 Series Methods

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Volatile Organic Compounds by EPA Method 8260B

The project samples were extracted into analytical batch 4K21006 and analyzed for Volatile Organic Compounds (VOC) by purging a 25mL aliquot of sample on the instrument column. Acetone was observed in all project samples. Where the Acetone concentration in the project samples exceeded the instrument calibration range, an E-flag was applied to the reported data. These project samples were reanalyzed in analytical batch 4K18066 with an appropriate dilution to report all target analytes within calibration range.

Amar Gill
Project Manager
North Creek Analytical



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

CASE NARRATIVE for B4K0507 amended

VOA vials associated with Lot 4293060 were contaminated with Acetone. Affected Acetone results in this report were qualified with A-02. The contamination of these vials originated with the manufacturer. NCA followed its purchasing procedures by ordering Level 1 containers. The Certificate of Analysis that accompanied these vials specified the concentration of Acetone as being less than 5 ppb. However, concentrations could range from 5 to over 300 ppb. NCA will review its purchasing and screening procedures to determine if measures can be implemented to prevent future occurrences of this kind. NCA regrets any inconvenience this may have caused.

Amar Gill
Project Manager
North Creek Analytical



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210

Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290

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

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

Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1410
907.563.9200 fax 907.563.9210

Golder Associates Inc.
18300 NE Union Hill Rd, Suite 200
Redmond, WA/USA 98052-3333

Project: Landsburg Mine
Project Number: 923-1000-002
Project Manager: Douglas Morell

Amended Report
Issued: 12/15/04 16:51

ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW2-111604	B4K0507-01	Water	11/16/04 11:10	11/17/04 16:15
LMW7-111604	B4K0507-02	Water	11/16/04 12:15	11/17/04 16:15
LMW10-111604	B4K0507-03	Water	11/16/04 15:45	11/17/04 16:15
FBLMW10-111604	B4K0507-04	Water	11/16/04 09:40	11/17/04 16:15
LMW6-111604	B4K0507-05	Water	11/16/04 17:45	11/17/04 16:15
LMW11-111604	B4K0507-06	Water	11/16/04 08:00	11/17/04 16:15
LMW4-111604	B4K0507-07	Water	11/16/04 15:00	11/17/04 16:15
Trip Blank 1	B4K0507-08	Water	11/16/04 12:00	11/17/04 16:15

North Creek Analytical - Bothell

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.

Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
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 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW2-111604 (B4K0507-01) Water Sampled: 11/16/04 11:10 Received: 11/17/04 16:15									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	4K19059	11/19/04	11/22/04	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Surrogate: 2-FBP	85.2 %	50-150			"	"	"	"	
Surrogate: Octacosane	107 %	50-150			"	"	"	"	
LMW7-111604 (B4K0507-02) Water Sampled: 11/16/04 12:15 Received: 11/17/04 16:15									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	4K19059	11/19/04	11/22/04	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Surrogate: 2-FBP	86.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	94.2 %	50-150			"	"	"	"	
LMW10-111604 (B4K0507-03) Water Sampled: 11/16/04 15:45 Received: 11/17/04 16:15									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	4K19059	11/19/04	11/22/04	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Surrogate: 2-FBP	85.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	105 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1110
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FBLMW10-111604 (B4K0507-04) Water Sampled: 11/16/04 09:40 Received: 11/17/04 16:15									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	4K19059	11/19/04	11/22/04	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	108 %	50-150			"	"	"	"	
<i>Surrogate: Octacosane</i>	111 %	50-150			"	"	"	"	
LMW6-111604 (B4K0507-05) Water Sampled: 11/16/04 17:45 Received: 11/17/04 16:15									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	4K19059	11/19/04	11/22/04	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	97.9 %	50-150			"	"	"	"	
<i>Surrogate: Octacosane</i>	107 %	50-150			"	"	"	"	
LMW11-111604 (B4K0507-06RE1) Water Sampled: 11/16/04 08:00 Received: 11/17/04 16:15									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	4K22060	11/22/04	11/24/04	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	80.8 %	50-150			"	"	"	"	
<i>Surrogate: Octacosane</i>	106 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1110
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW4-111604 (B4K0507-07) Water Sampled: 11/16/04 15:00 Received: 11/17/04 16:15									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	4K19059	11/19/04	11/23/04	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"
Surrogate: 2-FBP	96.2 %	50-150			"	"	"	"	"
Surrogate: Octacosane	106 %	50-150			"	"	"	"	"

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW2-111604 (B4K0507-01) Water **Sampled: 11/16/04 11:10** **Received: 11/17/04 16:15**

Silver	ND	0.00100	mg/l	1	4K23044	11/23/04	12/01/04	EPA 6020	
Arsenic	ND	0.00100	"	"	"	"	11/24/04	"	
Beryllium	ND	0.00100	"	"	"	"	12/03/04	"	
Cadmium	ND	0.00100	"	"	"	"	11/24/04	"	
Chromium	0.00181	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	4K30019	11/30/04	11/30/04	EPA 6010B	
Mercury	ND	0.000200	"	"	4K23013	11/23/04	11/23/04	EPA 7470A	
Manganese	0.211	0.0100	"	"	4K23044	11/23/04	12/01/04	EPA 6020	
Nickel	0.00147	0.00100	"	"	"	"	11/24/04	"	
Lead	ND	0.00100	"	"	"	"	12/01/04	"	
Antimony	ND	0.00300	"	"	"	"	11/24/04	"	
Selenium	0.00311	0.00100	"	"	"	"	11/24/04	"	
Thallium	ND	0.00100	"	"	"	"	12/01/04	"	
Zinc	ND	0.0100	"	"	"	"	11/24/04	"	

LMW7-111604 (B4K0507-02) Water **Sampled: 11/16/04 12:15** **Received: 11/17/04 16:15**

Silver	ND	0.00100	mg/l	1	4K23044	11/23/04	12/01/04	EPA 6020	
Arsenic	0.00165	0.00100	"	"	"	"	11/24/04	"	
Beryllium	ND	0.00100	"	"	"	"	12/01/04	"	
Cadmium	ND	0.00100	"	"	"	"	11/24/04	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	1.15	0.150	"	"	4K30019	11/30/04	11/30/04	EPA 6010B	
Mercury	ND	0.000200	"	"	4K23013	11/23/04	11/23/04	EPA 7470A	
Manganese	0.145	0.0100	"	"	4K23044	11/23/04	12/01/04	EPA 6020	
Nickel	0.00100	0.00100	"	"	"	"	11/24/04	"	
Lead	ND	0.00100	"	"	"	"	12/01/04	"	
Antimony	ND	0.00300	"	"	"	"	11/24/04	"	
Selenium	ND	0.00100	"	"	"	"	11/24/04	"	
Thallium	ND	0.00100	"	"	"	"	12/01/04	"	
Zinc	ND	0.0100	"	"	"	"	11/24/04	"	

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1110
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW10-111604 (B4K0507-03) Water Sampled: 11/16/04 15:45 Received: 11/17/04 16:15

Silver	ND	0.00100	mg/l	1	4K23044	11/23/04	12/01/04	EPA 6020	
Arsenic	0.00138	0.00100	"	"	"	"	11/24/04	"	
Beryllium	ND	0.00100	"	"	"	"	12/01/04	"	
Cadmium	ND	0.00100	"	"	"	"	11/24/04	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	4K30019	11/30/04	11/30/04	EPA 6010B	
Mercury	ND	0.000200	"	"	4K23013	11/23/04	11/23/04	EPA 7470A	
Manganese	ND	0.0100	"	"	4K23044	11/23/04	12/01/04	EPA 6020	
Nickel	ND	0.00100	"	"	"	"	11/24/04	"	
Lead	ND	0.00100	"	"	"	"	12/01/04	"	
Antimony	ND	0.00300	"	"	"	"	11/24/04	"	
Selenium	ND	0.00100	"	"	"	"	11/24/04	"	
Thallium	ND	0.00100	"	"	"	"	12/01/04	"	
Zinc	ND	0.0100	"	"	"	"	11/24/04	"	

FBLMW10-111604 (B4K0507-04) Water Sampled: 11/16/04 09:40 Received: 11/17/04 16:15

Silver	ND	0.00100	mg/l	1	4K23044	11/23/04	12/01/04	EPA 6020	
Arsenic	ND	0.00100	"	"	"	"	11/24/04	"	
Beryllium	ND	0.00100	"	"	"	"	12/01/04	"	
Cadmium	ND	0.00100	"	"	"	"	11/24/04	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	4K30019	11/30/04	11/30/04	EPA 6010B	
Mercury	ND	0.000200	"	"	4K23013	11/23/04	11/23/04	EPA 7470A	
Manganese	ND	0.0100	"	"	4K23044	11/23/04	12/01/04	EPA 6020	
Nickel	ND	0.00100	"	"	"	"	11/24/04	"	
Lead	ND	0.00100	"	"	"	"	12/01/04	"	
Antimony	ND	0.00300	"	"	"	"	11/24/04	"	
Selenium	ND	0.00100	"	"	"	"	11/24/04	"	
Thallium	ND	0.00100	"	"	"	"	12/01/04	"	
Zinc	ND	0.0100	"	"	"	"	11/24/04	"	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW6-111604 (B4K0507-05) Water Sampled: 11/16/04 17:45 Received: 11/17/04 16:15									
Silver	ND	0.00100	mg/l	1	4K23044	11/23/04	12/01/04	EPA 6020	
Arsenic	ND	0.00100	"	"	"	"	11/24/04	"	
Beryllium	ND	0.00100	"	"	"	"	12/01/04	"	
Cadmium	ND	0.00100	"	"	"	"	11/24/04	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	2.53	0.150	"	"	4K30019	11/30/04	11/30/04	EPA 6010B	
Mercury	ND	0.000200	"	"	4K23013	11/23/04	11/23/04	EPA 7470A	
Manganese	0.0310	0.0100	"	"	4K23044	11/23/04	12/01/04	EPA 6020	
Nickel	ND	0.00100	"	"	"	"	11/24/04	"	
Lead	ND	0.00100	"	"	"	"	12/01/04	"	
Antimony	ND	0.00300	"	"	"	"	11/24/04	"	
Selenium	ND	0.00100	"	"	"	"	11/24/04	"	
Thallium	ND	0.00100	"	"	"	"	12/01/04	"	
Zinc	ND	0.0100	"	"	"	"	11/24/04	"	

LMW11-111604 (B4K0507-06) Water Sampled: 11/16/04 08:00 Received: 11/17/04 16:15									
Silver	ND	0.00100	mg/l	1	4K23044	11/23/04	12/01/04	EPA 6020	
Arsenic	0.00135	0.00100	"	"	"	"	11/24/04	"	
Beryllium	ND	0.00100	"	"	"	"	12/01/04	"	
Cadmium	ND	0.00100	"	"	"	"	11/24/04	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	4K30019	11/30/04	11/30/04	EPA 6010B	
Mercury	ND	0.000200	"	"	4K23013	11/23/04	11/23/04	EPA 7470A	
Manganese	0.0159	0.0100	"	"	4K23044	11/23/04	12/01/04	EPA 6020	
Nickel	ND	0.00100	"	"	"	"	11/24/04	"	
Lead	ND	0.00100	"	"	"	"	12/01/04	"	
Antimony	ND	0.00300	"	"	"	"	11/24/04	"	
Selenium	ND	0.00100	"	"	"	"	11/24/04	"	
Thallium	ND	0.00100	"	"	"	"	12/01/04	"	
Zinc	ND	0.0100	"	"	"	"	11/24/04	"	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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 Anchorage ~~2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-4110~~
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

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 Issued: 12/15/04 16:51

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW4-111604 (B4K0507-07) Water Sampled: 11/16/04 15:00 Received: 11/17/04 16:15									
Silver	ND	0.00100	mg/l	1	4K23044	11/23/04	12/02/04	EPA 6020	
Arsenic	ND	0.00100	"	"	"	"	11/24/04	"	
Beryllium	ND	0.00100	"	"	"	"	12/02/04	"	
Cadmium	ND	0.00100	"	"	"	"	11/24/04	"	
Chromium	0.00180	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	0.842	0.150	"	"	4K30019	11/30/04	11/30/04	EPA 6010B	
Mercury	ND	0.000200	"	"	4K23013	11/23/04	11/23/04	EPA 7470A	
Manganese	0.202	0.0100	"	"	4K23044	11/23/04	12/02/04	EPA 6020	
Nickel	0.00135	0.00100	"	"	"	"	11/24/04	"	
Lead	ND	0.00100	"	"	"	"	12/02/04	"	
Antimony	ND	0.00300	"	"	"	"	11/24/04	"	
Selenium	0.00420	0.00100	"	"	"	"	11/24/04	"	
Thallium	ND	0.00100	"	"	"	"	12/02/04	"	
Zinc	ND	0.0100	"	"	"	"	11/24/04	"	

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Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-4110
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW2-111604 (B4K0507-01) Water Sampled: 11/16/04 11:10 Received: 11/17/04 16:15									
Acetone	Not Reportable	20.0	ug/l	1	4K18066	11/23/04	11/24/04	EPA 8260B	A-02
Benzene	ND	1.00	"	"	"	"	"	"	"
Bromobenzene	ND	1.00	"	"	"	"	"	"	"
Bromochloromethane	ND	1.00	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	"
Bromoform	ND	1.00	"	"	"	"	"	"	"
Bromomethane	ND	2.00	"	"	"	"	"	"	"
2-Butanone	ND	10.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	"
Carbon disulfide	ND	1.00	"	"	"	"	"	"	"
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	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	"	"
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	1.00	"	"	"	"	"	"	"
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	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW2-111604 (B4K0507-01) Water Sampled: 11/16/04 11:10 Received: 11/17/04 16:15									
2,2-Dichloropropane	ND	1.00	ug/l	1	4K18066	11/23/04	11/24/04	"	
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	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	
1,1,1-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: 1,2-DCA-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	4K21006	11/19/04	11/19/04	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW2-111604 (B4K0507-01) Water Sampled: 11/16/04 11:10 Received: 11/17/04 16:15									
1,1,1-Trichloroethane	ND	0.200	ug/l	1	4K21006	11/19/04	11/19/04	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Acetone	Not Reportable	10.0	"	"	"	"	"	"	A-02, E
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW2-111604 (B4K0507-01) Water Sampled: 11/16/04 11:10 Received: 11/17/04 16:15										
Chlorobenzene	ND	0.200		ug/l	1	4K21006	11/19/04	11/19/04	"	
Chloroethane	ND	1.00		"	"	"	"	"	"	
Chloroform	ND	0.200		"	"	"	"	"	"	
Chloromethane	ND	1.00		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
Dibromochloromethane	ND	0.200		"	"	"	"	"	"	
Dibromomethane	ND	0.200		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.200		"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500		"	"	"	"	"	"	
Isopropylbenzene	ND	0.500		"	"	"	"	"	"	
m,p-Xylene	ND	0.500		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	
Methylene chloride	ND	2.00		"	"	"	"	"	"	
n-Butylbenzene	ND	0.200		"	"	"	"	"	"	
n-Propylbenzene	ND	0.500		"	"	"	"	"	"	
Naphthalene	ND	0.500		"	"	"	"	"	"	
o-Xylene	ND	0.250		"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200		"	"	"	"	"	"	
Styrene	ND	0.500		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500		"	"	"	"	"	"	
Tetrachloroethene	ND	0.200		"	"	"	"	"	"	
Toluene	ND	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500		"	"	"	"	"	"	
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	93.2 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	96.0 %	70-130				"	"	"	"	
Surrogate: 4-BFB	113 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW7-111604 (B4K0507-02) Water Sampled: 11/16/04 12:15 Received: 11/17/04 16:15										
1,1,1,2-Tetrachloroethane	ND	0.200		ug/l	1	4K21006	11/19/04	11/19/04	EPA 8260B	
1,1,1-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	
2-Butanone	ND	2.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
2-Hexanone	ND	2.00		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00		"	"	"	"	"	"	
Acetone	Not Reportable	10.0		"	"	"	"	"	"	A-02, E
Benzene	ND	0.200		"	"	"	"	"	"	
Bromobenzene	ND	0.500		"	"	"	"	"	"	
Bromochloromethane	ND	0.200		"	"	"	"	"	"	
Bromodichloromethane	ND	0.200		"	"	"	"	"	"	
Bromoform	ND	0.200		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
Carbon disulfide	ND	0.500		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

LMW7-111604 (B4K0507-02) Water **Sampled: 11/16/04 12:15** **Received: 11/17/04 16:15**

Carbon tetrachloride	ND	0.200		ug/l	1	4K21006	11/19/04	11/19/04	"	
Chlorobenzene	ND	0.200		"	"	"	"	"	"	
Chloroethane	ND	1.00		"	"	"	"	"	"	
Chloroform	ND	0.200		"	"	"	"	"	"	
Chloromethane	ND	1.00		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
Dibromochloromethane	ND	0.200		"	"	"	"	"	"	
Dibromomethane	ND	0.200		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.200		"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500		"	"	"	"	"	"	
Isopropylbenzene	ND	0.500		"	"	"	"	"	"	
m,p-Xylene	ND	0.500		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	
Methylene chloride	ND	2.00		"	"	"	"	"	"	
n-Butylbenzene	ND	0.200		"	"	"	"	"	"	
n-Propylbenzene	ND	0.500		"	"	"	"	"	"	
Naphthalene	ND	0.500		"	"	"	"	"	"	
o-Xylene	ND	0.250		"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200		"	"	"	"	"	"	
Styrene	ND	0.500		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500		"	"	"	"	"	"	
Tetrachloroethene	ND	0.200		"	"	"	"	"	"	
Toluene	ND	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500		"	"	"	"	"	"	
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	94.5 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	95.0 %	70-130				"	"	"	"	
Surrogate: 4-BFB	113 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW10-111604 (B4K0507-03) Water Sampled: 11/16/04 15:45 Received: 11/17/04 16:15										
1,1,1,2-Tetrachloroethane	ND	0.200		ug/l	1	4K21006	11/19/04	11/19/04	EPA 8260B	
1,1,1-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	
2-Butanone	ND	2.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
2-Hexanone	ND	2.00		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00		"	"	"	"	"	"	
Acetone	Not	10.0		"	"	"	"	"	"	A-02
	Reportable									
Benzene	0.240	0.200		"	"	"	"	"	"	
Bromobenzene	ND	0.500		"	"	"	"	"	"	
Bromochloromethane	ND	0.200		"	"	"	"	"	"	
Bromodichloromethane	ND	0.200		"	"	"	"	"	"	
Bromoform	ND	0.200		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
Carbon disulfide	ND	0.500		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW10-111604 (B4K0507-03) Water Sampled: 11/16/04 15:45 Received: 11/17/04 16:15									
Carbon tetrachloride	ND	0.200	ug/l	1	4K21006	11/19/04	11/19/04	"	
Chlorobenzene	ND	0.200	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	0.310	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	95.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	109 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FBLMW10-111604 (B4K0507-04) Water Sampled: 11/16/04 09:40 Received: 11/17/04 16:15									
Acetone	Not Reportable	20.0	ug/l	1	4K18066	11/23/04	11/24/04	EPA 8260B	A-02
Benzene	ND	1.00	"	"	"	"	"	"	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	1.17	1.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	"	
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	1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
FBLMW10-111604 (B4K0507-04) Water Sampled: 11/16/04 09:40 Received: 11/17/04 16:15										
2,2-Dichloropropane	ND	1.00		ug/l	1	4K18066	11/23/04	11/24/04	"	
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		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00		"	"	"	"	"	"	
2-Hexanone	ND	10.0		"	"	"	"	"	"	
Isopropylbenzene	ND	1.00		"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0		"	"	"	"	"	"	
Methylene chloride	ND	5.00		"	"	"	"	"	"	
Naphthalene	ND	1.00		"	"	"	"	"	"	
n-Propylbenzene	ND	1.00		"	"	"	"	"	"	
Styrene	ND	1.00		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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		"	"	"	"	"	"	
1,1,1-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: 1,2-DCA-d4	100 %	70-130		"	"	"	"	"	"	
Surrogate: Toluene-d8	96.0 %	70-130		"	"	"	"	"	"	
Surrogate: 4-BFB	103 %	70-130		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200		"	"	4K21006	11/19/04	11/19/04	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FBLMW10-111604 (B4K0507-04) Water **Sampled: 11/16/04 09:40** **Received: 11/17/04 16:15**

1,1,1-Trichloroethane	ND	0.200	ug/l	1	4K21006	11/19/04	11/19/04	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Acetone	Not Reportable	10.0	"	"	"	"	"	"	A-02, E
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
FBLMW10-111604 (B4K0507-04) Water Sampled: 11/16/04 09:40 Received: 11/17/04 16:15										
Chlorobenzene	ND	0.200		ug/l	1	4K21006	11/19/04	11/19/04	"	
Chloroethane	ND	1.00		"	"	"	"	"	"	
Chloroform	1.16	0.200		"	"	"	"	"	"	
Chloromethane	ND	1.00		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
Dibromochloromethane	ND	0.200		"	"	"	"	"	"	
Dibromomethane	ND	0.200		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.200		"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500		"	"	"	"	"	"	
Isopropylbenzene	ND	0.500		"	"	"	"	"	"	
m,p-Xylene	ND	0.500		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	
Methylene chloride	ND	2.00		"	"	"	"	"	"	
n-Butylbenzene	ND	0.200		"	"	"	"	"	"	
n-Propylbenzene	ND	0.500		"	"	"	"	"	"	
Naphthalene	ND	0.500		"	"	"	"	"	"	
o-Xylene	ND	0.250		"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200		"	"	"	"	"	"	
Styrene	ND	0.500		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500		"	"	"	"	"	"	
Tetrachloroethene	ND	0.200		"	"	"	"	"	"	
Toluene	ND	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500		"	"	"	"	"	"	
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	99.8 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130				"	"	"	"	
Surrogate: 4-BFB	110 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A10, Anchorage, AK 99502-1110
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW6-111604 (B4K0507-05) Water Sampled: 11/16/04 17:45 Received: 11/17/04 16:15									
Acetone	Not Reportable	20.0	ug/l	1	4K24046	11/24/04	11/25/04	EPA 8260B	A-02
Benzene	ND	1.00	"	"	"	"	"	"	"
Bromobenzene	ND	1.00	"	"	"	"	"	"	"
Bromochloromethane	ND	1.00	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	"
Bromoform	ND	1.00	"	"	"	"	"	"	"
Bromomethane	ND	2.00	"	"	"	"	"	"	"
2-Butanone	ND	10.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	"
Carbon disulfide	ND	1.00	"	"	"	"	"	"	"
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	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	"	"
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	1.00	"	"	"	"	"	"	"
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	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW6-111604 (B4K0507-05) Water Sampled: 11/16/04 17:45 Received: 11/17/04 16:15									
2,2-Dichloropropane	ND	1.00	ug/l	1	4K24046	11/24/04	11/25/04	"	"
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	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	"
2-Hexanone	ND	10.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	"
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	"
Methylene chloride	ND	5.00	"	"	"	"	"	"	"
Naphthalene	ND	1.00	"	"	"	"	"	"	"
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	"
Styrene	ND	1.00	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	"
1,1,1-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: 1,2-DCA-d4	94.5 %	70-130			"	"	"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	"
Surrogate: 4-BFB	108 %	70-130			"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	4K21006	11/19/04	11/19/04	"	"

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell **Amended Report**
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW6-111604 (B4K0507-05) Water Sampled: 11/16/04 17:45 Received: 11/17/04 16:15										
1,1,1-Trichloroethane	ND	0.200		ug/l	1	4K21006	11/19/04	11/19/04		
1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	
2-Butanone	ND	2.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
2-Hexanone	ND	2.00		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00		"	"	"	"	"	"	
Acetone	Not Reportable	10.0		"	"	"	"	"	"	A-02, E
Benzene	ND	0.200		"	"	"	"	"	"	
Bromobenzene	ND	0.500		"	"	"	"	"	"	
Bromochloromethane	ND	0.200		"	"	"	"	"	"	
Bromodichloromethane	ND	0.200		"	"	"	"	"	"	
Bromoform	ND	0.200		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
Carbon disulfide	ND	0.500		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW6-111604 (B4K0507-05) Water Sampled: 11/16/04 17:45 Received: 11/17/04 16:15										
Chlorobenzene	ND	0.200		ug/l	1	4K21006	11/19/04	11/19/04		"
Chloroethane	ND	1.00		"	"	"	"	"		"
Chloroform	ND	0.200		"	"	"	"	"		"
Chloromethane	ND	1.00		"	"	"	"	"		"
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"		"
cis-1,3-Dichloropropene	ND	0.200		"	"	"	"	"		"
Dibromochloromethane	ND	0.200		"	"	"	"	"		"
Dibromomethane	ND	0.200		"	"	"	"	"		"
Dichlorodifluoromethane	ND	0.500		"	"	"	"	"		"
Ethylbenzene	ND	0.200		"	"	"	"	"		"
Hexachlorobutadiene	ND	0.500		"	"	"	"	"		"
Isopropylbenzene	ND	0.500		"	"	"	"	"		"
m,p-Xylene	ND	0.500		"	"	"	"	"		"
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"		"
Methylene chloride	ND	2.00		"	"	"	"	"		"
n-Butylbenzene	ND	0.200		"	"	"	"	"		"
n-Propylbenzene	ND	0.500		"	"	"	"	"		"
Naphthalene	ND	0.500		"	"	"	"	"		"
o-Xylene	ND	0.250		"	"	"	"	"		"
p-Isopropyltoluene	ND	0.200		"	"	"	"	"		"
sec-Butylbenzene	ND	0.200		"	"	"	"	"		"
Styrene	ND	0.500		"	"	"	"	"		"
tert-Butylbenzene	ND	0.500		"	"	"	"	"		"
Tetrachloroethene	ND	0.200		"	"	"	"	"		"
Toluene	ND	0.200		"	"	"	"	"		"
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"		"
trans-1,3-Dichloropropene	ND	0.200		"	"	"	"	"		"
Trichloroethene	ND	0.200		"	"	"	"	"		"
Trichlorofluoromethane	ND	0.500		"	"	"	"	"		"
Vinyl chloride	ND	0.200		"	"	"	"	"		"
Surrogate: 1,2-DCA-d4	99.8 %	70-130				"	"	"		"
Surrogate: Toluene-d8	98.0 %	70-130				"	"	"		"
Surrogate: 4-BFB	107 %	70-130				"	"	"		"

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW11-111604 (B4K0507-06) Water Sampled: 11/16/04 08:00 Received: 11/17/04 16:15									
1,1,1,2-Tetrachloroethane	ND	0.200	ug/l	1	4K21006	11/19/04	11/19/04	EPA 8260B	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Acetone	Not Reportable	10.0	"	"	"	"	"	"	A-02
Benzene	0.230	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell **Amended Report**
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW11-111604 (B4K0507-06) Water Sampled: 11/16/04 08:00 Received: 11/17/04 16:15

Carbon tetrachloride	ND	0.200	ug/l	1	4K21006	11/19/04	11/19/04	"	
Chlorobenzene	ND	0.200	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	0.290	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.2 %	70-130			"	"	"	"	
Surrogate: 4-BFB	106 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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 541.383.9310 fax 541.382.7588
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell **Amended Report**
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW4-111604 (B4K0507-07) Water Sampled: 11/16/04 15:00 Received: 11/17/04 16:15									
Acetone	Not Reportable	20.0	ug/l	1	4K24046	11/24/04	11/25/04	EPA 8260B	A-02
Benzene	ND	1.00	"	"	"	"	"	"	"
Bromobenzene	ND	1.00	"	"	"	"	"	"	"
Bromochloromethane	ND	1.00	"	"	"	"	"	"	"
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	"
Bromoform	ND	1.00	"	"	"	"	"	"	"
Bromomethane	ND	2.00	"	"	"	"	"	"	"
2-Butanone	ND	10.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	"
Carbon disulfide	ND	1.00	"	"	"	"	"	"	"
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	"	"	"	"	"	"	"
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	"	"
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	1.00	"	"	"	"	"	"	"
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	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 Anchorage 2000 W International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW4-111604 (B4K0507-07) Water Sampled: 11/16/04 15:00 Received: 11/17/04 16:15										
2,2-Dichloropropane	ND	1.00		ug/l	1	4K24046	11/24/04	11/25/04	"	
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		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00		"	"	"	"	"	"	
2-Hexanone	ND	10.0		"	"	"	"	"	"	
Isopropylbenzene	ND	1.00		"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0		"	"	"	"	"	"	
Methylene chloride	ND	5.00		"	"	"	"	"	"	
Naphthalene	ND	1.00		"	"	"	"	"	"	
n-Propylbenzene	ND	1.00		"	"	"	"	"	"	
Styrene	ND	1.00		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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		"	"	"	"	"	"	
1,1,1-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: 1,2-DCA-d4	97.5 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130				"	"	"	"	
Surrogate: 4-BFB	110 %	70-130				"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200		"	"	4K21006	11/19/04	11/19/04	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

LMW4-111604 (B4K0507-07) Water Sampled: 11/16/04 15:00 Received: 11/17/04 16:15

1,1,1-Trichloroethane	ND	0.200		ug/l	1	4K21006	11/19/04	11/19/04	"	
1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	
2-Butanone	ND	2.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
2-Hexanone	ND	2.00		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00		"	"	"	"	"	"	
Acetone	Not Reportable	10.0		"	"	"	"	"	"	A-02, E
Benzene	ND	0.200		"	"	"	"	"	"	
Bromobenzene	ND	0.500		"	"	"	"	"	"	
Bromochloromethane	ND	0.200		"	"	"	"	"	"	
Bromodichloromethane	ND	0.200		"	"	"	"	"	"	
Bromoform	ND	0.200		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
Carbon disulfide	ND	0.500		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW4-111604 (B4K0507-07) Water Sampled: 11/16/04 15:00 Received: 11/17/04 16:15									
Chlorobenzene	ND	0.200	ug/l	1	4K21006	11/19/04	11/19/04	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.8 %	70-130			"	"	"	"	
Surrogate: 4-BFB	108 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell **Amended Report**
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Trip Blank 1 (B4K0507-08) Water Sampled: 11/16/04 12:00 Received: 11/17/04 16:15										
1,1,1,2-Tetrachloroethane	ND	0.200		ug/l	1	4K28003	11/24/04	11/24/04	EPA 8260B	
1,1,1-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	
2-Butanone	ND	2.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
2-Hexanone	ND	2.00		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00		"	"	"	"	"	"	
Acetone	Not Reportable	10.0		"	"	"	"	"	"	A-02, E
Benzene	ND	0.200		"	"	"	"	"	"	
Bromobenzene	ND	0.500		"	"	"	"	"	"	
Bromochloromethane	ND	0.200		"	"	"	"	"	"	
Bromodichloromethane	ND	0.200		"	"	"	"	"	"	
Bromoform	ND	0.200		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
Carbon disulfide	ND	0.500		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell **Amended Report**
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Trip Blank 1 (B4K0507-08) Water Sampled: 11/16/04 12:00 Received: 11/17/04 16:15 A-01										
Carbon tetrachloride	ND	0.200		ug/l	I	4K28003	11/24/04	11/24/04	"	
Chlorobenzene	ND	0.200		"	"	"	"	"	"	
Chloroethane	ND	1.00		"	"	"	"	"	"	
Chloroform	ND	0.200		"	"	"	"	"	"	
Chloromethane	ND	1.00		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
Dibromochloromethane	ND	0.200		"	"	"	"	"	"	
Dibromomethane	ND	0.200		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.200		"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500		"	"	"	"	"	"	
Isopropylbenzene	ND	0.500		"	"	"	"	"	"	
m,p-Xylene	ND	0.500		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	
Methylene chloride	ND	2.00		"	"	"	"	"	"	
n-Butylbenzene	ND	0.200		"	"	"	"	"	"	
n-Propylbenzene	ND	0.500		"	"	"	"	"	"	
Naphthalene	ND	0.500		"	"	"	"	"	"	
o-Xylene	ND	0.250		"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200		"	"	"	"	"	"	
Styrene	ND	0.500		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500		"	"	"	"	"	"	
Tetrachloroethene	ND	0.200		"	"	"	"	"	"	
Toluene	ND	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500		"	"	"	"	"	"	
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	103 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130				"	"	"	"	
Surrogate: 4-BFB	106 %	70-130				"	"	"	"	

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K19059: Prepared 11/19/04 Using EPA 3520C

Blank (4K19059-BLK1)

Gx Range Hydrocarbons	ND	0.250	mg/l							
Kerosene Range Hydrocarbons	ND	0.630	"							
Diesel Range Hydrocarbons	ND	0.630	"							
Insulating Oil Range Hydrocarbons	ND	0.630	"							
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"							
Lube Oil Range Hydrocarbons	ND	0.630	"							
Surrogate: 2-FBP	DET		"	0.250		97.6	50-150			
Surrogate: Octacosane	DET		"	0.240		105	50-150			

LCS (4K19059-BS1)

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.87		96.3	58-125			
Surrogate: 2-FBP	DET		"	0.250		105	50-150			

LCS Dup (4K19059-BSD1)

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.87		87.2	25-125	9.91	40	
Surrogate: 2-FBP	DET		"	0.250		94.0	50-150			

Batch 4K22060: Prepared 11/22/04 Using EPA 3520C

Blank (4K22060-BLK1)

Gx Range Hydrocarbons	ND	0.250	mg/l							
Kerosene Range Hydrocarbons	ND	0.630	"							
Diesel Range Hydrocarbons	ND	0.630	"							
Insulating Oil Range Hydrocarbons	ND	0.630	"							
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"							
Lube Oil Range Hydrocarbons	ND	0.630	"							
Surrogate: 2-FBP	DET		"	0.250		102	50-150			
Surrogate: Octacosane	DET		"	0.240		103	50-150			

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K22060: Prepared 11/22/04 Using EPA 3520C

LCS (4K22060-BS1)

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.87		92.5	58-125			
Surrogate: 2-FBP	DET		"	0.250		111	50-150			

LCS Dup (4K22060-BSD1)

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.87		91.4	58-125	1.16	40	
Surrogate: 2-FBP	DET		"	0.250		92.8	50-150			

Matrix Spike (4K22060-MS2)

Source: B4K0565-04

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.76	0.0489	102	25-149			
Surrogate: 2-FBP	DET		"	0.236		105	50-150			

Matrix Spike Dup (4K22060-MSD2)

Source: B4K0565-04

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.76	0.0489	83.6	25-149	19.0	200	
Surrogate: 2-FBP	DET		"	0.236		83.5	50-150			

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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K23013: Prepared 11/23/04 Using EPA 7470A

Blank (4K23013-BLK1)

Mercury ND 0.000200 mg/l

LCS (4K23013-BS1)

Mercury 0.00500 0.000200 mg/l 0.00500 100 80-120

LCS Dup (4K23013-BSD1)

Mercury 0.00517 0.000200 mg/l 0.00500 103 80-120 3.34 20

Duplicate (4K23013-DUP1)

Source: B4K0528-01

Mercury 0.0000923 0.000200 mg/l ND 20

Matrix Spike (4K23013-MS1)

Source: B4K0528-01

Mercury 0.00508 0.000200 mg/l 0.00500 ND 102 70-130

Matrix Spike (4K23013-MS2)

Source: B4K0345-01

Mercury 0.00485 0.000200 mg/l 0.00500 0.000126 94.5 70-130

Matrix Spike (4K23013-MS3)

Source: B4K0507-01

Mercury 0.00508 0.000200 mg/l 0.00500 0.0000675 100 70-130

Matrix Spike Dup (4K23013-MSD2)

Source: B4K0345-01

Mercury 0.00491 0.000200 mg/l 0.00500 0.000126 95.7 70-130 1.23 20

Matrix Spike Dup (4K23013-MSD3)

Source: B4K0507-01

Mercury 0.00404 0.000200 mg/l 0.00500 0.0000675 79.4 70-130 22.8 20

Q-14

Batch 4K23044: Prepared 11/23/04 Using EPA 3005A

Blank (4K23044-BLK1)

Silver	ND	0.00100	mg/l							
Arsenic	ND	0.00100	"							
Beryllium	ND	0.00100	"							
Cadmium	ND	0.00100	"							
Chromium	ND	0.00100	"							
Copper	ND	0.00100	"							
Manganese	ND	0.0100	"							
Nickel	ND	0.00100	"							
Lead	ND	0.00100	"							

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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 Anchorage 2000 W International Airport Road, Suite A10, Anchorage, AK 99502-1119
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Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K23044: Prepared 11/23/04 Using EPA 3005A

Blank (4K23044-BLK1)

Antimony	ND	0.00300	mg/l							
Selenium	ND	0.00100	"							
Thallium	ND	0.00100	"							
Zinc	ND	0.0100	"							

LCS (4K23044-BS1)

Silver	0.199	0.00100	mg/l	0.200		99.5	80-120			
Arsenic	0.195	0.00100	"	0.200		97.5	80-120			
Beryllium	0.184	0.00100	"	0.200		92.0	80-120			
Cadmium	0.196	0.00100	"	0.200		98.0	80-120			
Chromium	0.208	0.00100	"	0.200		104	80-120			
Copper	0.198	0.00100	"	0.200		99.0	80-120			
Manganese	0.204	0.0100	"	0.200		102	80-120			
Nickel	0.204	0.00100	"	0.200		102	80-120			
Lead	0.198	0.00100	"	0.200		99.0	80-120			
Antimony	0.0496	0.00300	"	0.0500		99.2	80-120			
Selenium	0.194	0.00100	"	0.200		97.0	80-120			
Thallium	0.200	0.00100	"	0.200		100	80-120			
Zinc	0.196	0.0100	"	0.200		98.0	80-120			

LCS Dup (4K23044-BSD1)

Silver	0.199	0.00100	mg/l	0.200		99.5	80-120	0.00	20	
Arsenic	0.195	0.00100	"	0.200		97.5	80-120	0.00	20	
Beryllium	0.187	0.00100	"	0.200		93.5	80-120	1.62	20	
Cadmium	0.197	0.00100	"	0.200		98.5	80-120	0.509	20	
Chromium	0.210	0.00100	"	0.200		105	80-120	0.957	20	
Copper	0.198	0.00100	"	0.200		99.0	80-120	0.00	20	
Manganese	0.203	0.0100	"	0.200		102	80-120	0.491	20	
Nickel	0.203	0.00100	"	0.200		102	80-120	0.491	20	
Lead	0.196	0.00100	"	0.200		98.0	80-120	1.02	20	
Antimony	0.0500	0.00300	"	0.0500		100	80-120	0.803	20	
Selenium	0.195	0.00100	"	0.200		97.5	80-120	0.514	20	
Thallium	0.200	0.00100	"	0.200		100	80-120	0.00	20	
Zinc	0.197	0.0100	"	0.200		98.5	80-120	0.509	20	

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K23044: Prepared 11/23/04 Using EPA 3005A

Matrix Spike (4K23044-MS1)

Source: B4K0507-01

Silver	0.0542	0.00100	mg/l	0.100	ND	54.2	43-124			
Arsenic	0.106	0.00100	"	0.100	0.000330	106	70-138			
Beryllium	0.0912	0.00100	"	0.100	ND	91.2	80-125			
Cadmium	0.0926	0.00100	"	0.100	0.000140	92.5	80-125			
Chromium	0.0977	0.00100	"	0.100	0.00181	95.9	76-125			
Copper	0.0672	0.00100	"	0.101	0.000930	65.6	71-125			Q-13
Manganese	0.310	0.0100	"	0.100	0.211	99.0	54-158			
Nickel	0.0900	0.00100	"	0.0995	0.00147	89.0	73-125			
Lead	0.0894	0.00100	"	0.0995	ND	89.8	78-125			
Antimony	0.0547	0.00300	"	0.0500	ND	109	63-126			
Selenium	0.0706	0.00100	"	0.100	0.00311	67.5	61-156			
Thallium	0.0966	0.00100	"	0.100	ND	96.6	78-125			
Zinc	0.0991	0.0100	"	0.0995	0.00317	96.4	70-127			

Matrix Spike Dup (4K23044-MSD1)

Source: B4K0507-01

Silver	0.0754	0.00100	mg/l	0.100	ND	75.4	43-124	32.7	50	
Arsenic	0.108	0.00100	"	0.100	0.000330	108	70-138	1.87	20	
Beryllium	0.100	0.00100	"	0.100	ND	100	80-125	9.21	20	
Cadmium	0.0940	0.00100	"	0.100	0.000140	93.9	80-125	1.50	20	
Chromium	0.0996	0.00100	"	0.100	0.00181	97.8	76-125	1.93	20	
Copper	0.0675	0.00100	"	0.101	0.000930	65.9	71-125	0.445	20	Q-13
Manganese	0.317	0.0100	"	0.100	0.211	106	54-158	2.23	20	
Nickel	0.0907	0.00100	"	0.0995	0.00147	89.7	73-125	0.775	20	
Lead	0.0963	0.00100	"	0.0995	ND	96.8	78-125	7.43	20	
Antimony	0.0542	0.00300	"	0.0500	ND	108	63-126	0.918	20	
Selenium	0.0720	0.00100	"	0.100	0.00311	68.9	61-156	1.96	20	
Thallium	0.101	0.00100	"	0.100	ND	101	78-125	4.45	20	
Zinc	0.0999	0.0100	"	0.0995	0.00317	97.2	70-127	0.804	20	

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 425.420.9200 fax 425.420.9210
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Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K30019: Prepared 11/30/04 Using EPA 3005A

Blank (4K30019-BLK1)

Iron	ND	0.150	mg/l							
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LCS (4K30019-BS1)

Iron	4.99	0.150	mg/l	5.00		99.8	80-120			
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LCS Dup (4K30019-BSD1)

Iron	4.94	0.150	mg/l	5.00		98.8	80-120	1.01	20	
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Matrix Spike (4K30019-MS1)

Source: B4K0507-01

Iron	5.41	0.150	mg/l	5.00	0.114	106	80-120			
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Matrix Spike (4K30019-MS2)

Source: B4K0565-04

Iron	7.10	0.150	mg/l	5.00	1.92	104	80-120			
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Matrix Spike Dup (4K30019-MSD1)

Source: B4K0507-01

Iron	5.27	0.150	mg/l	5.00	0.114	103	80-120	2.62	20	
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Matrix Spike Dup (4K30019-MSD2)

Source: B4K0565-04

Iron	7.27	0.150	mg/l	5.00	1.92	107	80-120	2.37	20	
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 425.420.9200 fax 425.420.9210
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Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K18066: Prepared 11/23/04 Using EPA 5030B

Blank (4K18066-BLK1)

Acetone	ND	20.0	ug/l
Benzene	ND	1.00	"
Bromobenzene	ND	1.00	"
Bromochloromethane	ND	1.00	"
Bromodichloromethane	ND	1.00	"
Bromoform	ND	1.00	"
Bromomethane	ND	2.00	"
2-Butanone	ND	10.0	"
n-Butylbenzene	ND	1.00	"
sec-Butylbenzene	ND	1.00	"
tert-Butylbenzene	ND	1.00	"
Carbon disulfide	ND	1.00	"
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	"
Dibromochloromethane	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	5.00	"
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	1.00	"
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	"

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K18066: Prepared 11/23/04 Using EPA 5030B

Blank (4K18066-BLK1)

2,2-Dichloropropane	ND	1.00	ug/l							
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	"							
Methyl tert-butyl ether	ND	2.00	"							
2-Hexanone	ND	10.0	"							
Isopropylbenzene	ND	1.00	"							
p-Isopropyltoluene	ND	1.00	"							
4-Methyl-2-pentanone	ND	10.0	"							
Methylene chloride	ND	2.00	"							
Naphthalene	ND	1.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	ND	1.00	"							
1,1,1,2-Tetrachloroethane	ND	1.00	"							
1,1,1,2-Tetrachloroethane	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
Toluene	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: 1,2-DCA-d4	20.2		"	20.0		101	70-130			
Surrogate: Toluene-d8	19.7		"	20.0		98.5	70-130			
Surrogate: 4-BFB	20.6		"	20.0		103	70-130			

North Creek Analytical - Bothell

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
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 907.563.9200 fax 907.563.9210

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 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K18066: Prepared 11/23/04 Using EPA 5030B

LCS (4K18066-BS1)

Benzene	18.3	1.00	ug/l	20.0		91.5	80-120			
Chlorobenzene	19.0	1.00	"	20.0		95.0	77-120			
1,1-Dichloroethene	17.7	1.00	"	20.0		88.5	80-120			
Methyl tert-butyl ether	17.1	2.00	"	20.0		85.5	80-120			
Toluene	19.1	1.00	"	20.0		95.5	80-120			
Trichloroethene	18.0	1.00	"	20.0		90.0	80-120			
Surrogate: 1,2-DCA-d4	19.6		"	20.0		98.0	70-130			
Surrogate: Toluene-d8	20.3		"	20.0		102	70-130			
Surrogate: 4-BFB	19.8		"	20.0		99.0	70-130			

LCS Dup (4K18066-BSD1)

Benzene	20.7	1.00	ug/l	20.0		104	80-120	12.3	20	
Chlorobenzene	19.8	1.00	"	20.0		99.0	77-120	4.12	20	
1,1-Dichloroethene	20.5	1.00	"	20.0		102	80-120	14.7	20	
Methyl tert-butyl ether	18.1	2.00	"	20.0		90.5	80-120	5.68	20	
Toluene	20.6	1.00	"	20.0		103	80-120	7.56	20	
Trichloroethene	20.0	1.00	"	20.0		100	80-120	10.5	20	
Surrogate: 1,2-DCA-d4	19.6		"	20.0		98.0	70-130			
Surrogate: Toluene-d8	19.5		"	20.0		97.5	70-130			
Surrogate: 4-BFB	19.9		"	20.0		99.5	70-130			

Matrix Spike (4K18066-MS1)

Source: B4K0550-05

Benzene	22.0	1.00	ug/l	20.0	ND	110	63-148			
Chlorobenzene	20.9	1.00	"	20.0	ND	104	80-128			
1,1-Dichloroethene	22.9	1.00	"	20.0	ND	114	59-158			
Methyl tert-butyl ether	20.4	2.00	"	20.0	ND	102	60-140			
Toluene	21.9	1.00	"	20.0	ND	110	72-127			
Trichloroethene	21.8	1.00	"	20.0	ND	109	80-126			
Surrogate: 1,2-DCA-d4	19.6		"	20.0		98.0	70-130			
Surrogate: Toluene-d8	19.9		"	20.0		99.5	70-130			
Surrogate: 4-BFB	20.2		"	20.0		101	70-130			

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K18066: Prepared 11/23/04 Using EPA 5030B

Matrix Spike Dup (4K18066-MSD1)				Source: B4K0550-05						A-01a
Benzene	21.3	1.00	ug/l	20.0	ND	106	63-148	3.23	20	
Chlorobenzene	20.5	1.00	"	20.0	ND	102	80-128	1.93	20	
1,1-Dichloroethene	21.4	1.00	"	20.0	ND	107	59-158	6.77	30	
Methyl tert-butyl ether	20.0	2.00	"	20.0	ND	100	60-140	1.98	30	
Toluene	21.2	1.00	"	20.0	ND	106	72-127	3.25	20	
Trichloroethene	21.7	1.00	"	20.0	ND	108	80-126	0.460	20	
Surrogate: 1,2-DCA-d4	19.3		"	20.0		96.5	70-130			
Surrogate: Toluene-d8	19.7		"	20.0		98.5	70-130			
Surrogate: 4-BFB	19.8		"	20.0		99.0	70-130			

Batch 4K21006: Prepared 11/19/04 Using EPA 5030B

Blank (4K21006-BLK1)

1,1,1,2-Tetrachloroethane	ND	0.200	ug/l
1,1,1-Trichloroethane	ND	0.200	"
1,1,2,2-Tetrachloroethane	ND	0.500	"
1,1,2-Trichloroethane	ND	0.200	"
1,1-Dichloroethane	ND	0.200	"
1,1-Dichloroethene	ND	0.200	"
1,1-Dichloropropene	ND	0.200	"
1,2,3-Trichlorobenzene	ND	0.200	"
1,2,3-Trichloropropane	ND	0.500	"
1,2,4-Trichlorobenzene	ND	0.200	"
1,2,4-Trimethylbenzene	ND	0.200	"
1,2-Dibromo-3-chloropropane	ND	0.500	"
1,2-Dibromoethane	ND	0.200	"
1,2-Dichlorobenzene	ND	0.200	"
1,2-Dichloroethane	ND	0.200	"
1,2-Dichloropropane	ND	0.200	"
1,3,5-Trimethylbenzene	ND	0.500	"
1,3-Dichlorobenzene	ND	0.200	"
1,3-Dichloropropane	ND	0.200	"
1,4-Dichlorobenzene	ND	0.200	"
2,2-Dichloropropane	ND	0.500	"
2-Butanone	ND	2.00	"

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Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290

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

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

Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K21006: Prepared 11/19/04 Using EPA 5030B

Blank (4K21006-BLK1)

2-Chlorotoluene	ND	0.500	ug/l							
2-Hexanone	ND	2.00	"							
4-Chlorotoluene	ND	0.500	"							
4-Methyl-2-pentanone	ND	2.00	"							
Acetone	ND	10.0	"							
Benzene	ND	0.200	"							
Bromobenzene	ND	0.500	"							
Bromochloromethane	ND	0.200	"							
Bromodichloromethane	ND	0.200	"							
Bromoform	ND	0.200	"							
Bromomethane	ND	2.00	"							
Carbon disulfide	ND	0.500	"							
Carbon tetrachloride	ND	0.200	"							
Chlorobenzene	ND	0.200	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	0.200	"							
Chloromethane	ND	1.00	"							
cis-1,2-Dichloroethene	ND	0.200	"							
cis-1,3-Dichloropropene	ND	0.200	"							
Dibromochloromethane	ND	0.200	"							
Dibromomethane	ND	0.200	"							
Dichlorodifluoromethane	ND	0.500	"							
Ethylbenzene	ND	0.200	"							
Hexachlorobutadiene	ND	0.500	"							
Isopropylbenzene	ND	0.500	"							
m,p-Xylene	ND	0.500	"							
Methyl tert-butyl ether	ND	1.00	"							
Methylene chloride	ND	2.00	"							
n-Butylbenzene	ND	0.200	"							
n-Propylbenzene	ND	0.500	"							
Naphthalene	ND	0.500	"							
o-Xylene	ND	0.250	"							
p-Isopropyltoluene	ND	0.200	"							
sec-Butylbenzene	ND	0.200	"							

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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 907.563.9200 fax 907.563.9210

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K21006: Prepared 11/19/04 Using EPA 5030B

Blank (4K21006-BLK1)

Styrene	ND	0.500	ug/l							
tert-Butylbenzene	ND	0.500	"							
Tetrachloroethene	ND	0.200	"							
Toluene	ND	0.200	"							
trans-1,2-Dichloroethene	ND	0.200	"							
trans-1,3-Dichloropropene	ND	0.200	"							
Trichloroethene	ND	0.200	"							
Trichlorofluoromethane	ND	0.500	"							
Vinyl chloride	ND	0.200	"							
<i>Surrogate: 1,2-DCA-d4</i>	<i>4.15</i>		<i>"</i>	<i>4.00</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>3.91</i>		<i>"</i>	<i>4.00</i>		<i>97.8</i>	<i>70-130</i>			
<i>Surrogate: 4-BFB</i>	<i>4.07</i>		<i>"</i>	<i>4.00</i>		<i>102</i>	<i>70-130</i>			

LCS (4K21006-BS1)

1,1,1,2-Tetrachloroethane	3.96	0.200	ug/l	4.00		99.0	80-120			
1,1,1-Trichloroethane	3.85	0.200	"	4.00		96.2	80-120			
1,1,2,2-Tetrachloroethane	3.81	0.500	"	4.00		95.2	80-120			
1,1,2-Trichloroethane	3.81	0.200	"	4.00		95.2	80-120			
1,1-Dichloroethane	3.86	0.200	"	4.00		96.5	80-120			
1,1-Dichloroethene	4.17	0.200	"	4.00		104	80-120			
1,1-Dichloropropene	4.28	0.200	"	4.00		107	80-120			
1,2,3-Trichlorobenzene	3.98	0.200	"	4.00		99.5	80-120			
1,2,3-Trichloropropane	3.73	0.500	"	4.00		93.2	80-120			
1,2,4-Trichlorobenzene	3.79	0.200	"	4.00		94.8	80-120			
1,2,4-Trimethylbenzene	4.26	0.200	"	4.00		106	80-120			
1,2-Dibromo-3-chloropropane	4.04	0.500	"	4.00		101	80-120			
1,2-Dibromoethane	4.25	0.200	"	4.00		106	80-120			
1,2-Dichlorobenzene	4.33	0.200	"	4.00		108	80-120			
1,2-Dichloroethane	3.91	0.200	"	4.00		97.8	80-120			
1,2-Dichloropropane	4.06	0.200	"	4.00		102	80-120			
1,3,5-Trimethylbenzene	4.35	0.500	"	4.00		109	80-120			
1,3-Dichlorobenzene	4.22	0.200	"	4.00		106	80-120			
1,3-Dichloropropane	4.17	0.200	"	4.00		104	80-120			
1,4-Dichlorobenzene	4.13	0.200	"	4.00		103	80-120			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K21006: Prepared 11/19/04 Using EPA 5030B

LCS (4K21006-BS1)

2,2-Dichloropropane	3.56	0.500	ug/l	4.00		89.0	80-120			
2-Butanone	41.4	2.00	"	40.0		104	80-120			
2-Chlorotoluene	4.48	0.500	"	4.00		112	80-120			
2-Hexanone	41.6	2.00	"	40.0		104	80-120			
4-Chlorotoluene	4.26	0.500	"	4.00		106	80-120			
4-Methyl-2-pentanone	42.4	2.00	"	40.0		106	80-120			
Acetone	42.0	10.0	"	40.0		105	80-120			
Benzene	4.17	0.200	"	4.00		104	80-120			
Bromobenzene	4.22	0.500	"	4.00		106	80-120			
Bromochloromethane	3.90	0.200	"	4.00		97.5	80-120			
Bromodichloromethane	3.94	0.200	"	4.00		98.5	80-120			
Bromoform	4.07	0.200	"	4.00		102	80-120			
Bromomethane	3.97	2.00	"	4.00		99.2	80-120			
Carbon disulfide	3.88	0.500	"	4.00		97.0	80-120			
Carbon tetrachloride	3.92	0.200	"	4.00		98.0	80-120			
Chlorobenzene	4.11	0.200	"	4.00		103	80-120			
Chloroethane	4.02	1.00	"	4.00		100	80-120			
Chloroform	3.83	0.200	"	4.00		95.8	80-120			
Chloromethane	3.75	1.00	"	4.00		93.8	80-120			
cis-1,2-Dichloroethene	4.19	0.200	"	4.00		105	80-120			
cis-1,3-Dichloropropene	4.24	0.200	"	4.00		106	80-120			
Dibromochloromethane	4.11	0.200	"	4.00		103	80-120			
Dibromomethane	4.01	0.200	"	4.00		100	80-120			
Dichlorodifluoromethane	3.77	0.500	"	4.00		94.2	80-120			
Ethylbenzene	4.35	0.200	"	4.00		109	80-120			
Hexachlorobutadiene	4.11	0.500	"	4.00		103	80-120			
Isopropylbenzene	3.96	0.500	"	4.00		99.0	80-120			
m,p-Xylene	8.39	0.500	"	8.00		105	80-120			
Methyl tert-butyl ether	4.48	1.00	"	4.00		112	80-120			
Methylene chloride	3.80	2.00	"	4.00		95.0	80-120			
n-Butylbenzene	4.29	0.200	"	4.00		107	80-120			
n-Propylbenzene	4.32	0.500	"	4.00		108	80-120			
Naphthalene	4.15	0.500	"	4.00		104	80-120			
o-Xylene	3.97	0.250	"	4.00		99.2	80-120			

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Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K21006: Prepared 11/19/04 Using EPA 5030B

LCS (4K21006-BS1)

p-Isopropyltoluene	3.99	0.200	ug/l	4.00		99.8	80-120			
sec-Butylbenzene	4.00	0.200	"	4.00		100	80-120			
Styrene	3.98	0.500	"	4.00		99.5	80-120			
tert-Butylbenzene	3.98	0.500	"	4.00		99.5	80-120			
Tetrachloroethene	4.17	0.200	"	4.00		104	80-120			
Toluene	4.18	0.200	"	4.00		104	80-120			
trans-1,2-Dichloroethene	4.08	0.200	"	4.00		102	80-120			
trans-1,3-Dichloropropene	4.33	0.200	"	4.00		108	80-120			
Trichloroethene	4.12	0.200	"	4.00		103	80-120			
Trichlorofluoromethane	4.02	0.500	"	4.00		100	80-120			
Vinyl chloride	3.80	0.200	"	4.00		95.0	80-120			
Surrogate: 1,2-DCA-d4	3.80		"	4.00		95.0	70-130			
Surrogate: Toluene-d8	3.95		"	4.00		98.8	70-130			
Surrogate: 4-BFB	3.93		"	4.00		98.2	70-130			

LCS Dup (4K21006-BSD1)

1,1,1,2-Tetrachloroethane	4.00	0.200	ug/l	4.00		100	80-120	1.01	30	
1,1,1-Trichloroethane	3.82	0.200	"	4.00		95.5	80-120	0.782	30	
1,1,2,2-Tetrachloroethane	3.99	0.500	"	4.00		99.8	80-120	4.62	30	
1,1,2-Trichloroethane	3.79	0.200	"	4.00		94.8	80-120	0.526	30	
1,1-Dichloroethane	3.81	0.200	"	4.00		95.2	80-120	1.30	30	
1,1-Dichloroethene	4.03	0.200	"	4.00		101	80-120	3.41	30	
1,1-Dichloropropene	4.32	0.200	"	4.00		108	80-120	0.930	30	
1,2,3-Trichlorobenzene	4.02	0.200	"	4.00		100	80-120	1.00	30	
1,2,3-Trichloropropane	4.04	0.500	"	4.00		101	80-120	7.98	30	
1,2,4-Trichlorobenzene	3.97	0.200	"	4.00		99.2	80-120	4.64	30	
1,2,4-Trimethylbenzene	4.31	0.200	"	4.00		108	80-120	1.17	30	
1,2-Dibromo-3-chloropropane	3.99	0.500	"	4.00		99.8	80-120	1.25	30	
1,2-Dibromoethane	4.15	0.200	"	4.00		104	80-120	2.38	30	
1,2-Dichlorobenzene	4.31	0.200	"	4.00		108	80-120	0.463	30	
1,2-Dichloroethane	3.85	0.200	"	4.00		96.2	80-120	1.55	30	
1,2-Dichloropropane	4.03	0.200	"	4.00		101	80-120	0.742	30	
1,3,5-Trimethylbenzene	4.34	0.500	"	4.00		108	80-120	0.230	30	
1,3-Dichlorobenzene	4.22	0.200	"	4.00		106	80-120	0.00	30	

North Creek Analytical - Bothell

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

425.420.9200 fax 425.420.9210

Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302

509.924.9200 fax 509.924.9290

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

503.906.9200 fax 503.906.9210

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

541.383.9310 fax 541.382.7588

Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119

907.563.9200 fax 907.563.9210

Golder Associates Inc.
18300 NE Union Hill Rd, Suite 200
Redmond, WA/USA 98052-3333

Project: Landsburg Mine
Project Number: 923-1000-002
Project Manager: Douglas Morell

Amended Report
Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K21006: Prepared 11/19/04 Using EPA 5030B

LCS Dup (4K21006-BSD1)

1,3-Dichloropropane	4.24	0.200	ug/l	4.00		106	80-120	1.66	30	
1,4-Dichlorobenzene	4.07	0.200	"	4.00		102	80-120	1.46	30	
2,2-Dichloropropane	3.42	0.500	"	4.00		85.5	65-138	4.01	30	
2-Butanone	39.6	2.00	"	40.0		99.0	80-120	4.44	30	
2-Chlorotoluene	4.27	0.500	"	4.00		107	80-120	4.80	30	
2-Hexanone	42.2	2.00	"	40.0		106	80-120	1.43	30	
4-Chlorotoluene	4.48	0.500	"	4.00		112	80-120	5.03	30	
4-Methyl-2-pentanone	42.4	2.00	"	40.0		106	80-120	0.00	30	
Acetone	39.4	10.0	"	40.0		98.5	80-120	6.39	30	
Benzene	4.14	0.200	"	4.00		104	80-120	0.722	30	
Bromobenzene	4.14	0.500	"	4.00		104	80-120	1.91	30	
Bromochloromethane	3.87	0.200	"	4.00		96.8	80-120	0.772	30	
Bromodichloromethane	3.96	0.200	"	4.00		99.0	80-120	0.506	30	
Bromoform	4.13	0.200	"	4.00		103	80-120	1.46	30	
Bromomethane	3.97	2.00	"	4.00		99.2	80-120	0.00	30	
Carbon disulfide	3.83	0.500	"	4.00		95.8	80-120	1.30	30	
Carbon tetrachloride	3.91	0.200	"	4.00		97.8	80-120	0.255	30	
Chlorobenzene	4.14	0.200	"	4.00		104	80-120	0.727	30	
Chloroethane	3.88	1.00	"	4.00		97.0	80-120	3.54	30	
Chloroform	3.82	0.200	"	4.00		95.5	80-120	0.261	30	
Chloromethane	3.59	1.00	"	4.00		89.8	80-120	4.36	30	
cis-1,2-Dichloroethene	4.19	0.200	"	4.00		105	80-120	0.00	30	
cis-1,3-Dichloropropene	4.21	0.200	"	4.00		105	80-120	0.710	30	
Dibromochloromethane	4.08	0.200	"	4.00		102	80-120	0.733	30	
Dibromomethane	3.98	0.200	"	4.00		99.5	80-120	0.751	30	
Dichlorodifluoromethane	3.62	0.500	"	4.00		90.5	80-120	4.06	30	
Ethylbenzene	4.38	0.200	"	4.00		110	80-120	0.687	30	
Hexachlorobutadiene	4.17	0.500	"	4.00		104	80-120	1.45	30	
Isopropylbenzene	3.88	0.500	"	4.00		97.0	80-120	2.04	30	
m,p-Xylene	8.40	0.500	"	8.00		105	80-120	0.119	30	
Methyl tert-butyl ether	4.44	1.00	"	4.00		111	80-120	0.897	30	
Methylene chloride	3.71	5.00	"	4.00		92.8	80-120	2.40	30	
n-Butylbenzene	4.27	0.200	"	4.00		107	80-120	0.467	30	
n-Propylbenzene	4.40	0.500	"	4.00		110	80-120	1.83	30	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K21006: Prepared 11/19/04 Using EPA 5030B

LCS Dup (4K21006-BSD1)

Naphthalene	4.23	0.500	ug/l	4.00		106	80-120	1.91	30	
o-Xylene	3.88	0.250	"	4.00		97.0	80-120	2.29	30	
p-Isopropyltoluene	3.98	0.200	"	4.00		99.5	80-120	0.251	30	
sec-Butylbenzene	3.95	0.200	"	4.00		98.8	80-120	1.26	30	
Styrene	3.90	0.500	"	4.00		97.5	80-120	2.03	30	
tert-Butylbenzene	4.02	0.500	"	4.00		100	80-120	1.00	30	
Tetrachloroethene	4.13	0.200	"	4.00		103	80-120	0.964	30	
Toluene	4.13	0.200	"	4.00		103	80-120	1.20	30	
trans-1,2-Dichloroethene	4.03	0.200	"	4.00		101	80-120	1.23	30	
trans-1,3-Dichloropropene	4.34	0.200	"	4.00		108	80-120	0.231	30	
Trichloroethene	4.14	0.200	"	4.00		104	80-120	0.484	30	
Trichlorofluoromethane	3.86	0.500	"	4.00		96.5	80-120	4.06	30	
Vinyl chloride	3.60	0.200	"	4.00		90.0	80-120	5.41	30	
Surrogate: 1,2-DCA-d4	3.81		"	4.00		95.2	70-130			
Surrogate: Toluene-d8	4.01		"	4.00		100	70-130			
Surrogate: 4-BFB	4.10		"	4.00		102	70-130			

Matrix Spike (4K21006-MS1)

Source: B4K0507-01

1,1,1,2-Tetrachloroethane	3.99	0.200	ug/l	4.00	ND	99.8	70-130			
1,1,1-Trichloroethane	4.00	0.200	"	4.00	ND	100	70-130			
1,1,2,2-Tetrachloroethane	3.83	0.500	"	4.00	ND	95.8	70-130			
1,1,2-Trichloroethane	3.82	0.200	"	4.00	ND	95.5	70-130			
1,1-Dichloroethane	3.96	0.200	"	4.00	ND	99.0	70-130			
1,1-Dichloroethene	4.27	0.200	"	4.00	ND	107	59-158			
1,1-Dichloropropene	4.48	0.200	"	4.00	ND	112	70-130			
1,2,3-Trichlorobenzene	3.74	0.200	"	4.00	ND	93.5	70-130			
1,2,3-Trichloropropane	4.01	0.500	"	4.00	ND	100	70-130			
1,2,4-Trichlorobenzene	3.78	0.200	"	4.00	ND	94.5	70-130			
1,2,4-Trimethylbenzene	4.24	0.200	"	4.00	ND	106	70-130			
1,2-Dibromo-3-chloropropane	3.99	0.500	"	4.00	ND	99.8	70-130			
1,2-Dibromoethane	3.93	0.200	"	4.00	ND	98.2	70-130			
1,2-Dichlorobenzene	4.15	0.200	"	4.00	ND	104	70-130			
1,2-Dichloroethane	4.00	0.200	"	4.00	ND	100	70-130			
1,2-Dichloropropane	3.96	0.200	"	4.00	ND	99.0	70-130			

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K21006: Prepared 11/19/04 Using EPA 5030B

Matrix Spike (4K21006-MS1)

Source: B4K0507-01

1,3,5-Trimethylbenzene	4.43	0.500	ug/l	4.00	ND	111	70-130			
1,3-Dichlorobenzene	4.14	0.200	"	4.00	ND	104	70-130			
1,3-Dichloropropane	4.10	0.200	"	4.00	ND	102	70-130			
1,4-Dichlorobenzene	4.04	0.200	"	4.00	ND	101	70-130			
2,2-Dichloropropane	4.78	0.500	"	4.00	ND	120	70-130			
2-Butanone	39.8	2.00	"	40.0	ND	99.5	70-130			
2-Chlorotoluene	4.52	0.500	"	4.00	ND	113	70-130			
2-Hexanone	40.0	2.00	"	40.0	ND	100	70-130			
4-Chlorotoluene	4.08	0.500	"	4.00	ND	102	70-130			
4-Methyl-2-pentanone	39.0	2.00	"	40.0	ND	97.5	70-130			
Acetone	153	10.0	"	40.0	85.0	170	70-130			Q-03
Benzene	4.16	0.200	"	4.00	ND	104	63-148			
Bromobenzene	4.16	0.500	"	4.00	ND	104	70-130			
Bromochloromethane	3.91	0.200	"	4.00	ND	97.8	70-130			
Bromodichloromethane	3.88	0.200	"	4.00	ND	97.0	70-130			
Bromoform	3.96	0.200	"	4.00	ND	99.0	70-130			
Bromomethane	3.57	2.00	"	4.00	ND	89.2	70-130			
Carbon disulfide	4.15	0.500	"	4.00	ND	104	70-130			
Carbon tetrachloride	4.04	0.200	"	4.00	ND	101	70-130			
Chlorobenzene	4.15	0.200	"	4.00	ND	104	80-128			
Chloroethane	4.07	1.00	"	4.00	ND	102	70-130			
Chloroform	3.86	0.200	"	4.00	ND	96.5	70-130			
Chloromethane	3.78	1.00	"	4.00	ND	94.5	70-130			
cis-1,2-Dichloroethene	4.27	0.200	"	4.00	ND	107	70-130			
cis-1,3-Dichloropropene	4.05	0.200	"	4.00	ND	101	70-130			
Dibromochloromethane	4.01	0.200	"	4.00	ND	100	70-130			
Dibromomethane	3.96	0.200	"	4.00	ND	99.0	70-130			
Dichlorodifluoromethane	3.95	0.500	"	4.00	ND	98.8	70-130			
Ethylbenzene	4.50	0.200	"	4.00	ND	112	70-130			
Hexachlorobutadiene	4.20	0.500	"	4.00	ND	105	70-130			
Isopropylbenzene	4.06	0.500	"	4.00	ND	102	70-130			
m,p-Xylene	8.56	0.500	"	8.00	ND	107	70-130			
Methyl tert-butyl ether	4.23	1.00	"	4.00	ND	106	70-130			
Methylene chloride	3.81	2.00	"	4.00	ND	95.2	70-130			

North Creek Analytical - Bothell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K21006: Prepared 11/19/04 Using EPA 5030B

Matrix Spike (4K21006-MS1)

Source: B4K0507-01

n-Butylbenzene	4.49	0.200	ug/l	4.00	ND	112	70-130			
n-Propylbenzene	4.47	0.500	"	4.00	ND	112	70-130			
Naphthalene	4.03	0.500	"	4.00	ND	101	70-130			
o-Xylene	3.85	0.250	"	4.00	ND	96.2	70-130			
p-Isopropyltoluene	4.06	0.200	"	4.00	ND	102	70-130			
sec-Butylbenzene	4.07	0.200	"	4.00	ND	102	70-130			
Styrene	3.94	0.500	"	4.00	ND	98.5	70-130			
tert-Butylbenzene	3.82	0.500	"	4.00	ND	95.5	70-130			
Tetrachloroethene	4.25	0.200	"	4.00	ND	106	70-130			
Toluene	4.18	0.200	"	4.00	ND	104	72-127			
trans-1,2-Dichloroethene	4.16	0.200	"	4.00	ND	104	70-130			
trans-1,3-Dichloropropene	4.15	0.200	"	4.00	ND	104	70-130			
Trichloroethene	4.16	0.200	"	4.00	ND	104	80-126			
Trichlorofluoromethane	4.19	0.500	"	4.00	ND	105	70-130			
Vinyl chloride	3.96	0.200	"	4.00	ND	99.0	70-130			
Surrogate: 1,2-DCA-d4	3.97		"	4.00		99.2	70-130			
Surrogate: Toluene-d8	3.97		"	4.00		99.2	70-130			
Surrogate: 4-BFB	4.00		"	4.00		100	70-130			

Matrix Spike Dup (4K21006-MSD1)

Source: B4K0507-01

1,1,1,2-Tetrachloroethane	3.98	0.200	ug/l	4.00	ND	99.5	70-130	0.251	30	
1,1,1-Trichloroethane	4.00	0.200	"	4.00	ND	100	70-130	0.00	30	
1,1,2,2-Tetrachloroethane	3.92	0.500	"	4.00	ND	98.0	70-130	2.32	30	
1,1,2-Trichloroethane	3.83	0.200	"	4.00	ND	95.8	70-130	0.261	30	
1,1-Dichloroethane	3.94	0.200	"	4.00	ND	98.5	70-130	0.506	30	
1,1-Dichloroethene	4.38	0.200	"	4.00	ND	110	59-158	2.54	30	
1,1-Dichloropropene	4.54	0.200	"	4.00	ND	114	70-130	1.33	30	
1,2,3-Trichlorobenzene	3.93	0.200	"	4.00	ND	98.2	70-130	4.95	30	
1,2,3-Trichloropropane	3.86	0.500	"	4.00	ND	96.5	70-130	3.81	30	
1,2,4-Trichlorobenzene	3.99	0.200	"	4.00	ND	99.8	70-130	5.41	30	
1,2,4-Trimethylbenzene	4.38	0.200	"	4.00	ND	110	70-130	3.25	30	
1,2-Dibromo-3-chloropropane	3.82	0.500	"	4.00	ND	95.5	70-130	4.35	30	
1,2-Dibromoethane	4.14	0.200	"	4.00	ND	104	70-130	5.20	30	
1,2-Dichlorobenzene	4.23	0.200	"	4.00	ND	106	70-130	1.91	30	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K21006: Prepared 11/19/04 Using EPA 5030B

Matrix Spike Dup (4K21006-MSD1)

Source: B4K0507-01

1,2-Dichloroethane	3.85	0.200	ug/l	4.00	ND	96.2	70-130	3.82	30	
1,2-Dichloropropane	4.05	0.200	"	4.00	ND	101	70-130	2.25	30	
1,3,5-Trimethylbenzene	4.42	0.500	"	4.00	ND	110	70-130	0.226	30	
1,3-Dichlorobenzene	4.21	0.200	"	4.00	ND	105	70-130	1.68	30	
1,3-Dichloropropane	4.10	0.200	"	4.00	ND	102	70-130	0.00	30	
1,4-Dichlorobenzene	4.15	0.200	"	4.00	ND	104	70-130	2.69	30	
2,2-Dichloropropane	4.72	0.500	"	4.00	ND	118	70-130	1.26	30	
2-Butanone	38.6	2.00	"	40.0	ND	96.5	70-130	3.06	30	
2-Chlorotoluene	4.49	0.500	"	4.00	ND	112	70-130	0.666	30	
2-Hexanone	40.0	2.00	"	40.0	ND	100	70-130	0.00	30	
4-Chlorotoluene	4.14	0.500	"	4.00	ND	104	70-130	1.46	30	
4-Methyl-2-pentanone	40.3	2.00	"	40.0	ND	101	70-130	3.28	30	
Acetone	154	10.0	"	40.0	85.0	172	70-130	0.651	30	Q-03
Benzene	4.22	0.200	"	4.00	ND	106	63-148	1.43	20	
Bromobenzene	4.11	0.500	"	4.00	ND	103	70-130	1.21	30	
Bromochloromethane	3.93	0.200	"	4.00	ND	98.2	70-130	0.510	30	
Bromodichloromethane	3.97	0.200	"	4.00	ND	99.2	70-130	2.29	30	
Bromoform	3.86	0.200	"	4.00	ND	96.5	70-130	2.56	30	
Bromomethane	3.75	2.00	"	4.00	ND	93.8	70-130	4.92	30	
Carbon disulfide	5.23	0.500	"	4.00	ND	131	70-130	23.0	30	Q-03
Carbon tetrachloride	4.05	0.200	"	4.00	ND	101	70-130	0.247	30	
Chlorobenzene	4.14	0.200	"	4.00	ND	104	80-128	0.241	20	
Chloroethane	3.93	1.00	"	4.00	ND	98.2	70-130	3.50	30	
Chloroform	3.85	0.200	"	4.00	ND	96.2	70-130	0.259	30	
Chloromethane	3.99	1.00	"	4.00	ND	99.8	70-130	5.41	30	
cis-1,2-Dichloroethene	4.25	0.200	"	4.00	ND	106	70-130	0.469	30	
cis-1,3-Dichloropropene	4.28	0.200	"	4.00	ND	107	70-130	5.52	30	
Dibromochloromethane	3.96	0.200	"	4.00	ND	99.0	70-130	1.25	30	
Dibromomethane	4.01	0.200	"	4.00	ND	100	70-130	1.25	30	
Dichlorodifluoromethane	3.86	0.500	"	4.00	ND	96.5	70-130	2.30	30	
Ethylbenzene	4.48	0.200	"	4.00	ND	112	70-130	0.445	30	
Hexachlorobutadiene	4.36	0.500	"	4.00	ND	109	70-130	3.74	30	
Isopropylbenzene	4.02	0.500	"	4.00	ND	100	70-130	0.990	30	
m,p-Xylene	8.36	0.500	"	8.00	ND	104	70-130	2.36	30	

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell **Amended Report**
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K21006: Prepared 11/19/04 Using EPA 5030B

Matrix Spike Dup (4K21006-MSD1)

Source: B4K0507-01

Methyl tert-butyl ether	4.45	1.00	ug/l	4.00	ND	111	70-130	5.07	30	
Methylene chloride	3.78	2.00	"	4.00	ND	94.5	70-130	0.791	30	
n-Butylbenzene	4.56	0.200	"	4.00	ND	114	70-130	1.55	30	
n-Propylbenzene	4.52	0.500	"	4.00	ND	113	70-130	1.11	30	
Naphthalene	4.36	0.500	"	4.00	ND	109	70-130	7.87	30	
o-Xylene	3.88	0.250	"	4.00	ND	97.0	70-130	0.776	30	
p-Isopropyltoluene	4.10	0.200	"	4.00	ND	102	70-130	0.980	30	
sec-Butylbenzene	4.03	0.200	"	4.00	ND	101	70-130	0.988	30	
Styrene	3.90	0.500	"	4.00	ND	97.5	70-130	1.02	30	
tert-Butylbenzene	3.96	0.500	"	4.00	ND	99.0	70-130	3.60	30	
Tetrachloroethene	4.27	0.200	"	4.00	ND	107	70-130	0.469	30	
Toluene	4.19	0.200	"	4.00	ND	105	72-127	0.239	20	
trans-1,2-Dichloroethene	4.19	0.200	"	4.00	ND	105	70-130	0.719	30	
trans-1,3-Dichloropropene	4.11	0.200	"	4.00	ND	103	70-130	0.969	30	
Trichloroethene	4.32	0.200	"	4.00	ND	108	80-126	3.77	20	
Trichlorofluoromethane	4.07	0.500	"	4.00	ND	102	70-130	2.91	30	
Vinyl chloride	3.95	0.200	"	4.00	ND	98.8	70-130	0.253	30	
Surrogate: 1,2-DCA-d4	3.88		"	4.00		97.0	70-130			
Surrogate: Toluene-d8	3.92		"	4.00		98.0	70-130			
Surrogate: 4-BFB	4.06		"	4.00		102	70-130			

Batch 4K24046: Prepared 11/24/04 Using EPA 5030B

Blank (4K24046-BLK1)

Acetone	ND	20.0	ug/l							
Benzene	ND	1.00	"							
Bromobenzene	ND	1.00	"							
Bromochloromethane	ND	1.00	"							
Bromodichloromethane	ND	1.00	"							
Bromoform	ND	1.00	"							
Bromomethane	ND	2.00	"							
2-Butanone	ND	10.0	"							
n-Butylbenzene	ND	1.00	"							
sec-Butylbenzene	ND	1.00	"							
tert-Butylbenzene	ND	1.00	"							

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K24046: Prepared 11/24/04 Using EPA 5030B

Blank (4K24046-BLK1)

Carbon disulfide	ND	1.00	ug/l
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	"
Dibromochloromethane	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	5.00	"
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	1.00	"
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	1.00	"
Methyl tert-butyl ether	ND	2.00	"
2-Hexanone	ND	10.0	"
Isopropylbenzene	ND	1.00	"
p-Isopropyltoluene	ND	1.00	"
4-Methyl-2-pentanone	ND	10.0	"

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
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Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K24046: Prepared 11/24/04 Using EPA 5030B

Blank (4K24046-BLK1)

Methylene chloride	ND	5.00	ug/l							
Naphthalene	ND	1.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	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	"							
1,1,1-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: 1,2-DCA-d4	19.7		"	20.0		98.5	70-130			
Surrogate: Toluene-d8	20.5		"	20.0		102	70-130			
Surrogate: 4-BFB	20.1		"	20.0		100	70-130			

LCS (4K24046-BS1)

Benzene	17.1	1.00	ug/l	20.0		85.5	80-120			
Chlorobenzene	19.0	1.00	"	20.0		95.0	77-120			
1,1-Dichloroethene	17.6	1.00	"	20.0		88.0	80-120			
Methyl tert-butyl ether	19.6	2.00	"	20.0		98.0	80-120			
Toluene	18.7	1.00	"	20.0		93.5	80-120			
Trichloroethene	18.5	1.00	"	20.0		92.5	80-120			
Surrogate: 1,2-DCA-d4	18.8		"	20.0		94.0	70-130			
Surrogate: Toluene-d8	20.4		"	20.0		102	70-130			
Surrogate: 4-BFB	20.6		"	20.0		103	70-130			

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K24046: Prepared 11/24/04 Using EPA 5030B

LCS Dup (4K24046-BSD1)

Benzene	17.7	1.00	ug/l	20.0		88.5	80-120	3.45	20	
Chlorobenzene	19.5	1.00	"	20.0		97.5	77-120	2.60	20	
1,1-Dichloroethene	20.1	1.00	"	20.0		100	80-120	13.3	20	
Methyl tert-butyl ether	20.0	2.00	"	20.0		100	80-120	2.02	20	
Toluene	19.3	1.00	"	20.0		96.5	80-120	3.16	20	
Trichloroethene	19.3	1.00	"	20.0		96.5	80-120	4.23	20	
Surrogate: 1,2-DCA-d4	19.2		"	20.0		96.0	70-130			
Surrogate: Toluene-d8	20.1		"	20.0		100	70-130			
Surrogate: 4-BFB	20.5		"	20.0		102	70-130			

Batch 4K28003: Prepared 11/24/04 Using EPA 5030B

Blank (4K28003-BLK1)

1,1,1,2-Tetrachloroethane	ND	0.200	ug/l							
1,1,1-Trichloroethane	ND	0.200	"							
1,1,2,2-Tetrachloroethane	ND	0.500	"							
1,1,2-Trichloroethane	ND	0.200	"							
1,1-Dichloroethane	ND	0.200	"							
1,1-Dichloroethene	ND	0.200	"							
1,1-Dichloropropene	ND	0.200	"							
1,2,3-Trichlorobenzene	ND	0.200	"							
1,2,3-Trichloropropane	ND	0.500	"							
1,2,4-Trichlorobenzene	ND	0.200	"							
1,2,4-Trimethylbenzene	ND	0.200	"							
1,2-Dibromo-3-chloropropane	ND	0.500	"							
1,2-Dibromoethane	ND	0.200	"							
1,2-Dichlorobenzene	ND	0.200	"							
1,2-Dichloroethane	ND	0.200	"							
1,2-Dichloropropane	ND	0.200	"							
1,3,5-Trimethylbenzene	ND	0.500	"							
1,3-Dichlorobenzene	ND	0.200	"							
1,3-Dichloropropane	ND	0.200	"							
1,4-Dichlorobenzene	ND	0.200	"							
2,2-Dichloropropane	ND	0.500	"							
2-Butanone	ND	2.00	"							

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K28003: Prepared 11/24/04 Using EPA 5030B

Blank (4K28003-BLK1)

2-Chlorotoluene	ND	0.500	ug/l							
2-Hexanone	ND	2.00	"							
4-Chlorotoluene	ND	0.500	"							
4-Methyl-2-pentanone	ND	2.00	"							
Acetone	ND	10.0	"							
Benzene	ND	0.200	"							
Bromobenzene	ND	0.500	"							
Bromochloromethane	ND	0.200	"							
Bromodichloromethane	ND	0.200	"							
Bromoform	ND	0.200	"							
Bromomethane	ND	2.00	"							
Carbon disulfide	ND	0.500	"							
Carbon tetrachloride	ND	0.200	"							
Chlorobenzene	ND	0.200	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	0.200	"							
Chloromethane	ND	1.00	"							
cis-1,2-Dichloroethene	ND	0.200	"							
cis-1,3-Dichloropropene	ND	0.200	"							
Dibromochloromethane	ND	0.200	"							
Dibromomethane	ND	0.200	"							
Dichlorodifluoromethane	ND	0.500	"							
Ethylbenzene	ND	0.200	"							
Hexachlorobutadiene	ND	0.500	"							
Isopropylbenzene	ND	0.500	"							
m,p-Xylene	ND	0.500	"							
Methyl tert-butyl ether	ND	1.00	"							
Methylene chloride	ND	2.00	"							
n-Butylbenzene	ND	0.200	"							
n-Propylbenzene	ND	0.500	"							
Naphthalene	ND	0.500	"							
o-Xylene	ND	0.250	"							
p-Isopropyltoluene	ND	0.200	"							
sec-Butylbenzene	ND	0.200	"							

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Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K28003: Prepared 11/24/04 Using EPA 5030B

Blank (4K28003-BLK1)

Styrene	ND	0.500	ug/l							
tert-Butylbenzene	ND	0.500	"							
Tetrachloroethene	ND	0.200	"							
Toluene	ND	0.200	"							
trans-1,2-Dichloroethene	ND	0.200	"							
trans-1,3-Dichloropropene	ND	0.200	"							
Trichloroethene	ND	0.200	"							
Trichlorofluoromethane	ND	0.500	"							
Vinyl chloride	ND	0.200	"							
<i>Surrogate: 1,2-DCA-d4</i>	4.16		"	4.00		104	70-130			
<i>Surrogate: Toluene-d8</i>	3.86		"	4.00		96.5	70-130			
<i>Surrogate: 4-BFB</i>	4.20		"	4.00		105	70-130			

LCS (4K28003-BS1)

1,1,1,2-Tetrachloroethane	4.29	0.200	ug/l	4.00		107	80-120			
1,1,1-Trichloroethane	3.91	0.200	"	4.00		97.8	80-120			
1,1,2,2-Tetrachloroethane	3.98	0.500	"	4.00		99.5	80-120			
1,1,2-Trichloroethane	4.05	0.200	"	4.00		101	80-120			
1,1-Dichloroethane	3.99	0.200	"	4.00		99.8	80-120			
1,1-Dichloroethene	3.99	0.200	"	4.00		99.8	80-120			
1,1-Dichloropropene	4.25	0.200	"	4.00		106	80-120			
1,2,3-Trichlorobenzene	4.12	0.200	"	4.00		103	80-120			
1,2,3-Trichloropropane	4.24	0.500	"	4.00		106	80-120			
1,2,4-Trichlorobenzene	3.96	0.200	"	4.00		99.0	80-120			
1,2,4-Trimethylbenzene	4.47	0.200	"	4.00		112	80-120			
1,2-Dibromo-3-chloropropane	3.99	0.500	"	4.00		99.8	80-120			
1,2-Dibromoethane	4.19	0.200	"	4.00		105	80-120			
1,2-Dichlorobenzene	4.24	0.200	"	4.00		106	80-120			
1,2-Dichloroethane	3.80	0.200	"	4.00		95.0	80-120			
1,2-Dichloropropane	4.06	0.200	"	4.00		102	80-120			
1,3,5-Trimethylbenzene	4.53	0.500	"	4.00		113	80-120			
1,3-Dichlorobenzene	4.23	0.200	"	4.00		106	80-120			
1,3-Dichloropropane	4.21	0.200	"	4.00		105	80-120			
1,4-Dichlorobenzene	4.17	0.200	"	4.00		104	80-120			

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. Project: Landsburg Mine
 18300 NE Union Hill Rd, Suite 200 Project Number: 923-1000-002
 Redmond, WA/USA 98052-3333 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K28003: Prepared 11/24/04 Using EPA 5030B

LCS (4K28003-BS1)

2,2-Dichloropropane	3.58	0.500	ug/l	4.00		89.5	80-120			
2-Butanone	41.3	2.00	"	40.0		103	80-120			
2-Chlorotoluene	4.61	0.500	"	4.00		115	80-120			
2-Hexanone	40.7	2.00	"	40.0		102	80-120			
4-Chlorotoluene	4.13	0.500	"	4.00		103	80-120			
4-Methyl-2-pentanone	39.6	2.00	"	40.0		99.0	80-120			
Acetone	37.9	10.0	"	40.0		94.8	80-120			
Benzene	4.21	0.200	"	4.00		105	80-120			
Bromobenzene	4.28	0.500	"	4.00		107	80-120			
Bromochloromethane	3.83	0.200	"	4.00		95.8	80-120			
Bromodichloromethane	4.02	0.200	"	4.00		100	80-120			
Bromoform	4.23	0.200	"	4.00		106	80-120			
Bromomethane	4.29	2.00	"	4.00		107	80-120			
Carbon disulfide	3.93	0.500	"	4.00		98.2	80-120			
Carbon tetrachloride	3.99	0.200	"	4.00		99.8	80-120			
Chlorobenzene	4.29	0.200	"	4.00		107	80-120			
Chloroethane	3.88	1.00	"	4.00		97.0	80-120			
Chloroform	3.86	0.200	"	4.00		96.5	80-120			
Chloromethane	3.81	1.00	"	4.00		95.2	80-120			
cis-1,2-Dichloroethene	4.23	0.200	"	4.00		106	80-120			
cis-1,3-Dichloropropene	4.21	0.200	"	4.00		105	80-120			
Dibromochloromethane	4.26	0.200	"	4.00		106	80-120			
Dibromomethane	4.07	0.200	"	4.00		102	80-120			
Dichlorodifluoromethane	3.95	0.500	"	4.00		98.8	80-120			
Ethylbenzene	4.57	0.200	"	4.00		114	80-120			
Hexachlorobutadiene	4.18	0.500	"	4.00		104	80-120			
Isopropylbenzene	4.04	0.500	"	4.00		101	80-120			
m,p-Xylene	8.81	0.500	"	8.00		110	80-120			
Methyl tert-butyl ether	4.31	1.00	"	4.00		108	80-120			
Methylene chloride	3.86	2.00	"	4.00		96.5	80-120			
n-Butylbenzene	4.37	0.200	"	4.00		109	80-120			
n-Propylbenzene	4.47	0.500	"	4.00		112	80-120			
Naphthalene	4.16	0.500	"	4.00		104	80-120			
o-Xylene	4.11	0.250	"	4.00		103	80-120			

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K28003: Prepared 11/24/04 Using EPA 5030B

LCS (4K28003-BS1)

p-Isopropyltoluene	4.03	0.200	ug/l	4.00		101	80-120			
sec-Butylbenzene	4.01	0.200	"	4.00		100	80-120			
Styrene	4.09	0.500	"	4.00		102	80-120			
tert-Butylbenzene	4.05	0.500	"	4.00		101	80-120			
Tetrachloroethene	4.17	0.200	"	4.00		104	80-120			
Toluene	4.41	0.200	"	4.00		110	80-120			
trans-1,2-Dichloroethene	4.12	0.200	"	4.00		103	80-120			
trans-1,3-Dichloropropene	4.09	0.200	"	4.00		102	80-120			
Trichloroethene	4.15	0.200	"	4.00		104	80-120			
Trichlorofluoromethane	3.85	0.500	"	4.00		96.2	80-120			
Vinyl chloride	3.74	0.200	"	4.00		93.5	80-120			
Surrogate: 1,2-DCA-d4	3.86		"	4.00		96.5	70-130			
Surrogate: Toluene-d8	4.11		"	4.00		103	70-130			
Surrogate: 4-BFB	4.04		"	4.00		101	70-130			

LCS Dup (4K28003-BSD1)

1,1,1,2-Tetrachloroethane	4.30	0.200	ug/l	4.00		108	80-120	0.233	30	
1,1,1-Trichloroethane	4.01	0.200	"	4.00		100	80-120	2.53	30	
1,1,2,2-Tetrachloroethane	4.05	0.500	"	4.00		101	80-120	1.74	30	
1,1,2-Trichloroethane	3.98	0.200	"	4.00		99.5	80-120	1.74	30	
1,1-Dichloroethane	4.12	0.200	"	4.00		103	80-120	3.21	30	
1,1-Dichloroethene	4.07	0.200	"	4.00		102	80-120	1.99	30	
1,1-Dichloropropene	4.37	0.200	"	4.00		109	80-120	2.78	30	
1,2,3-Trichlorobenzene	4.14	0.200	"	4.00		104	80-120	0.484	30	
1,2,3-Trichloropropane	4.24	0.500	"	4.00		106	80-120	0.00	30	
1,2,4-Trichlorobenzene	4.13	0.200	"	4.00		103	80-120	4.20	30	
1,2,4-Trimethylbenzene	4.52	0.200	"	4.00		113	80-120	1.11	30	
1,2-Dibromo-3-chloropropane	3.96	0.500	"	4.00		99.0	80-120	0.755	30	
1,2-Dibromoethane	4.30	0.200	"	4.00		108	80-120	2.59	30	
1,2-Dichlorobenzene	4.33	0.200	"	4.00		108	80-120	2.10	30	
1,2-Dichloroethane	3.82	0.200	"	4.00		95.5	80-120	0.525	30	
1,2-Dichloropropane	4.13	0.200	"	4.00		103	80-120	1.71	30	
1,3,5-Trimethylbenzene	4.57	0.500	"	4.00		114	80-120	0.879	30	
1,3-Dichlorobenzene	4.30	0.200	"	4.00		108	80-120	1.64	30	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K28003: Prepared 11/24/04 Using EPA 5030B

LCS Dup (4K28003-BSD1)

1,3-Dichloropropane	4.26	0.200	ug/l	4.00	106	80-120	1.18	30	
1,4-Dichlorobenzene	4.19	0.200	"	4.00	105	80-120	0.478	30	
2,2-Dichloropropane	3.58	0.500	"	4.00	89.5	80-120	0.00	30	
2-Butanone	41.1	2.00	"	40.0	103	80-120	0.485	30	
2-Chlorotoluene	4.84	0.500	"	4.00	121	80-120	4.87	30	X
2-Hexanone	41.0	2.00	"	40.0	102	80-120	0.734	30	
4-Chlorotoluene	4.03	0.500	"	4.00	101	80-120	2.45	30	
4-Methyl-2-pentanone	39.2	2.00	"	40.0	98.0	80-120	1.02	30	
Acetone	35.2	10.0	"	40.0	88.0	80-120	7.39	30	
Benzene	4.31	0.200	"	4.00	108	80-120	2.35	30	
Bromobenzene	4.44	0.500	"	4.00	111	80-120	3.67	30	
Bromochloromethane	3.94	0.200	"	4.00	98.5	80-120	2.83	30	
Bromodichloromethane	4.03	0.200	"	4.00	101	80-120	0.248	30	
Bromoform	4.25	0.200	"	4.00	106	80-120	0.472	30	
Bromomethane	4.41	2.00	"	4.00	110	80-120	2.76	30	
Carbon disulfide	3.91	0.500	"	4.00	97.8	80-120	0.510	30	
Carbon tetrachloride	3.98	0.200	"	4.00	99.5	80-120	0.251	30	
Chlorobenzene	4.37	0.200	"	4.00	109	80-120	1.85	30	
Chloroethane	3.95	1.00	"	4.00	98.8	80-120	1.79	30	
Chloroform	3.95	0.200	"	4.00	98.8	80-120	2.30	30	
Chloromethane	3.89	1.00	"	4.00	97.2	80-120	2.08	30	
cis-1,2-Dichloroethene	4.34	0.200	"	4.00	108	80-120	2.57	30	
cis-1,3-Dichloropropene	4.26	0.200	"	4.00	106	80-120	1.18	30	
Dibromochloromethane	4.29	0.200	"	4.00	107	80-120	0.702	30	
Dibromomethane	4.08	0.200	"	4.00	102	80-120	0.245	30	
Dichlorodifluoromethane	3.98	0.500	"	4.00	99.5	80-120	0.757	30	
Ethylbenzene	4.66	0.200	"	4.00	116	80-120	1.95	30	
Hexachlorobutadiene	4.34	0.500	"	4.00	108	80-120	3.76	30	
Isopropylbenzene	4.14	0.500	"	4.00	104	80-120	2.44	30	
m,p-Xylene	8.94	0.500	"	8.00	112	80-120	1.46	30	
Methyl tert-butyl ether	4.44	1.00	"	4.00	111	80-120	2.97	30	
Methylene chloride	3.95	2.00	"	4.00	98.8	80-120	2.30	30	
n-Butylbenzene	4.55	0.200	"	4.00	114	80-120	4.04	30	
n-Propylbenzene	4.64	0.500	"	4.00	116	80-120	3.73	30	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K28003: Prepared 11/24/04 Using EPA 5030B

LCS Dup (4K28003-BSD1)

Naphthalene	4.28	0.500	ug/l	4.00		107	80-120	2.84	30	
o-Xylene	4.21	0.250	"	4.00		105	80-120	2.40	30	
p-Isopropyltoluene	4.11	0.200	"	4.00		103	80-120	1.97	30	
sec-Butylbenzene	4.14	0.200	"	4.00		104	80-120	3.19	30	
Styrene	4.18	0.500	"	4.00		104	80-120	2.18	30	
tert-Butylbenzene	4.13	0.500	"	4.00		103	80-120	1.96	30	
Tetrachloroethene	4.37	0.200	"	4.00		109	80-120	4.68	30	
Toluene	4.37	0.200	"	4.00		109	80-120	0.911	30	
trans-1,2-Dichloroethene	4.27	0.200	"	4.00		107	80-120	3.58	30	
trans-1,3-Dichloropropene	4.35	0.200	"	4.00		109	80-120	6.16	30	
Trichloroethene	4.15	0.200	"	4.00		104	80-120	0.00	30	
Trichlorofluoromethane	3.95	0.500	"	4.00		98.8	80-120	2.56	30	
Vinyl chloride	3.88	0.200	"	4.00		97.0	80-120	3.67	30	
Surrogate: 1,2-DCA-d4	3.75		"	4.00		93.8	70-130			
Surrogate: Toluene-d8	4.10		"	4.00		102	70-130			
Surrogate: 4-BFB	3.98		"	4.00		99.5	70-130			

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:51
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Notes and Definitions

- A-01 No sample volume left to perform re-run.
- A-01a The Matrix Spike Duplicate was analyzed ten minutes outside of the twelve hour QC window.
- A-02 Vials from lot# 4293060 contaminated with Acetone.
- E Estimated value. The reported value exceeds the calibration range of the analysis.
- NR Not Reportable
- Q-03 The percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
- Q-13 Multiple analyses indicate the percent recovery is outside the control limits due to a matrix effect.
- Q-14 Visual examination indicates the RPD and/or matrix spike recovery is outside the control limit due to a non-homogeneous sample matrix.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



Revised Chain of Custody

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
 3209 Denali St, Anchorage, AK 99503-4030

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

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

CHAIN OF CUSTODY REPORT

Work Order #: BL K0507

CLIENT: <u>Goldier Associates, Inc.</u>			INVOICE TO:										TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input type="checkbox"/> OTHER Specify: _____ <small>* Turnaround Requests less than standard may incur Rush Charges.</small>						
REPORT TO: <u>Ryan Vannier</u>			P.O. NUMBER:																
ADDRESS: <u>18300 NE Union Hill Rd. Ste. 200</u> <u>Redmond, WA 98052</u>			PRESERVATIVE																
PHONE: <u>(425) 883-0777</u> FAX:			REQUESTED ANALYSES																
PROJECT NAME: <u>Landsburg</u>			HCl HNO ₃ HCl																
PROJECT NUMBER: <u>923-1000-002</u>																			
SAMPLED BY: <u>Ryan Vannier</u>																			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOCS	Metals	TPH	HCl											MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 LMW2-111604	11/16/04 1110	X	X	X												W	10	Extra for MS/MSD	01
2 LMW7-111604	1215	X	X	X												W	6		02
3 LMW10-111604	1545	X	X	X												W	6		03
4 FLMW10-111604	0940	X	X	X												W	6		04
5 LMW11-111604		X	X	X												W	6		05 PTH
6 LMW6-111604	1745	X	X	X												W	6		05
7 LMW11-111604	0800	X	X	X												W	6		06
8 LMW4-111604	1500	X	X	X												W	6		07
9 Trip Blanks -1	NA 12:00	X														W		TB-1, TB-2, TB-3	08
10 Trip Blank 2																			09
RELEASED BY: <u>Ryan Vannier</u>			DATE: <u>11/16/04</u>			RECEIVED BY: <u>DRARY TONTZ</u>			DATE: <u>11/17/04</u>										
PRINT NAME: <u>Ryan Vannier</u>			FIRM: <u>Goldier</u>			TIME: <u>1930</u>			PRINT NAME: <u>DRARY TONTZ</u>			FIRM: <u>NCA</u>			TIME: <u>1615</u>				
RELEASED BY:			DATE:			RECEIVED BY:			DATE:										
PRINT NAME:			FIRM:			TIME:			PRINT NAME:			FIRM:			TIME:				
ADDITIONAL REMARKS:															TEMP: <u>2.4</u>		PAGE 1 OF 1		

11/16/04 12:00 Trip Blank 2

15705 - 10



11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-9508
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 20332 Empire Ave Suite F-1, Bend, OR 99701-5711
 3209 Denali St, Anchorage, AK 99503-4030

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

Work Order #: BA K0507

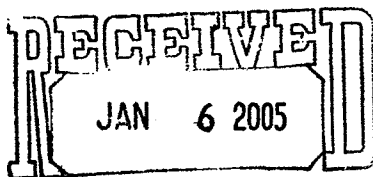
CLIENT: <u>Goldier Associates Inc.</u>			INVOICE TO:										TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input type="checkbox"/> OTHER Specify: _____ <small>* Turnaround Requests less than standard may incur Rush Charges.</small>							
REPORT TO: <u>Ryan Vannier</u> ADDRESS: <u>18300 NE Union Hill Rd. Ste. 200</u> <u>Redmond, WA 98052</u>			P.O. NUMBER:																	
PHONE: <u>(425) 883-0777</u> FAX:			PRESERVATIVE																	
PROJECT NAME: <u>Landsburg</u>			REQUESTED ANALYSES																	
PROJECT NUMBER: <u>923-1000-002</u>			HCl HNO ₃ HCl																	
SAMPLED BY: <u>Ryan Vannier</u>																				
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOCs	Metals	TOH-HCl	HCl										MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID		
1 LMWZ-111604	11/16/04 1110	X	X	X											W	10	Extra for MS/MSD	01		
2 LMW7-111604	1215	X	X	X											W	6		02		
3 LMW10-111604	1545	X	X	X											W	6		03		
4 FBLMW10-111604	0940	X	X	X											W	6		04		
5 LMW11-111604		X	X	X											W	6		04		
6 LMW6-111604	1745	X	X	X											W	6		05		
7 LMW11-111604	0800	X	X	X											W	6		06		
8 LMW4-111604	1500	X	X	X											W	6		07		
9 Trip Blanks	NA	X													W		TB-1, TB-2, TB-3	08		
10																		09		
RELEASED BY: <u>Ryan Vannier</u>			DATE: <u>11/16/04</u>			RECEIVED BY: <u>DRARY TERRY</u>			DATE: <u>11/17/04</u>											
PRINT NAME: <u>Ryan Vannier</u>			FIRM: <u>Goldier</u>			TIME: <u>1930</u>			PRINT NAME: <u>DRARY TERRY</u>			FIRM: <u>NCA</u>			TIME: <u>1615</u>					
RELEASED BY:			DATE:			RECEIVED BY:			DATE:											
PRINT NAME:			FIRM:			TIME:			PRINT NAME:			FIRM:			TIME:					
ADDITIONAL REMARKS:																	TEMP: <u>2.4</u>		PAGE 1 OF 1	

11/16/04



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

15 December 2004



Golder Associates

Douglas Morell
Golder Associates Inc.
18300 NE Union Hill Rd, Suite 200
Redmond, WA/USA 98052-3333
RE: Landsburg Mine

Enclosed are **amended** results of analyses for samples received by the laboratory on 11/18/04 14:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

CASE NARRATIVE for B4K0565 amended

Client: Golder Associates Inc.
Project Manager: Gary Zimmerman
Project Name: Landsburg Mine
Project Number: 923-1000-002

1.0 DESCRIPTION OF CASE

Four (4) water samples were submitted for the analysis of:

- Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
- Dissolved Metals by EPA 6000/7000 Series Methods
- Volatile Organic Compounds by EPA Method 8260B

2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received 18th November 2004 at a temperature of 5.9°C and logged in 19th November 2004.

3.0 PREPARATION AND ANALYSIS

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Dissolved Metals by EPA 6000/7000 Series Methods

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Volatile Organic Compounds by EPA Method 8260B

The samples were pre-screened for Volatile Organic Compounds (VOC) and found to contain significant concentrations of Acetone. Due to the high Acetone concentrations observed in each project sample a 10mL sample aliquot was shot onto the column. The 10mL sample purge results in raised reporting limits which exceed the project requirements. The reporting limit for Vinyl Chloride was lowered from 1.0ug/L to 0.5ug/L, concentration of the lowest calibration standard.

VOA vials associated with Lot 4293060 were contaminated with Acetone. Affected Acetone results in this report were qualified with A-02. The contamination of these vials originated with the manufacturer. NCA followed its purchasing procedures by ordering Level 1 containers. The Certificate of Analysis that accompanied these vials specified the concentration of Acetone as being less than 5 ppb. However,

Amar Gill
Project Manager
North Creek Analytical



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

CASE NARRATIVE for B4K0565 amended

concentrations could range from 5 to over 300 ppb. NCA will review its purchasing and screening procedures to determine if measures can be implemented to prevent future occurrences of this kind. NCA regrets any inconvenience this may have caused.

Amar Gill
Project Manager
North Creek Analytical



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW3-111704	B4K0565-01	Water	11/17/04 08:50	11/18/04 14:10
LMW5-111704	B4K0565-02	Water	11/17/04 10:00	11/18/04 14:10
LMW8-111704	B4K0565-03	Water	11/17/04 11:10	11/18/04 14:10
LMW9-111704	B4K0565-04	Water	11/17/04 14:05	11/18/04 14:10

North Creek Analytical - Bothell

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.

Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
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 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

LMW3-111704 (B4K0565-01) Water **Sampled: 11/17/04 08:50** **Received: 11/18/04 14:10**

Gx Range Hydrocarbons	ND	0.250	mg/l	1	4K22060	11/22/04	11/24/04	NWTPH-HCID		
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Surrogate: 2-FBP	78.8 %	50-150				"	"	"	"	"
Surrogate: Octacosane	108 %	50-150				"	"	"	"	"

LMW5-111704 (B4K0565-02) Water **Sampled: 11/17/04 10:00** **Received: 11/18/04 14:10**

Gx Range Hydrocarbons	ND	0.250	mg/l	1	4K22060	11/22/04	11/24/04	NWTPH-HCID		
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Surrogate: 2-FBP	99.6 %	50-150				"	"	"	"	"
Surrogate: Octacosane	102 %	50-150				"	"	"	"	"

LMW8-111704 (B4K0565-03) Water **Sampled: 11/17/04 11:10** **Received: 11/18/04 14:10**

Gx Range Hydrocarbons	ND	0.250	mg/l	1	4K22060	11/22/04	11/24/04	NWTPH-HCID		
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"	"
Surrogate: 2-FBP	106 %	50-150				"	"	"	"	"
Surrogate: Octacosane	105 %	50-150				"	"	"	"	"

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW9-111704 (B4K0565-04) Water Sampled: 11/17/04 14:05 Received: 11/18/04 14:10									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	4K22060	11/22/04	11/24/04	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	"
<i>Surrogate: 2-FBP</i>	70.8 %	50-150			"	"	"	"	
<i>Surrogate: Octacosane</i>	106 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

LMW3-111704 (B4K0565-01) Water Sampled: 11/17/04 08:50 Received: 11/18/04 14:10

Silver	ND	0.00100	mg/l	1	4K24042	11/24/04	11/30/04	EPA 6020	
Arsenic	ND	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	12/06/04	"	
Cadmium	ND	0.00100	"	"	"	"	11/30/04	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	4K30019	11/30/04	11/30/04	EPA 6010B	
Mercury	ND	0.000200	"	"	4K29015	11/29/04	11/29/04	EPA 7470A	
Manganese	0.0844	0.0100	"	"	4K24042	11/24/04	11/30/04	EPA 6020	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	12/02/04	"	
Selenium	ND	0.00100	"	"	"	"	11/30/04	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

LMW5-111704 (B4K0565-02) Water Sampled: 11/17/04 10:00 Received: 11/18/04 14:10

Silver	ND	0.00100	mg/l	1	4K24042	11/24/04	11/30/04	EPA 6020	
Arsenic	ND	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	12/06/04	"	
Cadmium	ND	0.00100	"	"	"	"	11/30/04	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	0.479	0.150	"	"	4K30019	11/30/04	11/30/04	EPA 6010B	
Mercury	ND	0.000200	"	"	4K29015	11/29/04	11/29/04	EPA 7470A	
Manganese	0.210	0.0100	"	"	4K24042	11/24/04	11/30/04	EPA 6020	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	12/02/04	"	
Selenium	ND	0.00100	"	"	"	"	11/30/04	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW8-111704 (B4K0565-03) Water Sampled: 11/17/04 11:10 Received: 11/18/04 14:10									
Silver	ND	0.00100	mg/l	1	4K24042	11/24/04	11/30/04	EPA 6020	
Arsenic	0.00267	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	12/06/04	"	
Cadmium	ND	0.00100	"	"	"	"	11/30/04	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	2.68	0.150	"	"	4K30019	11/30/04	11/30/04	EPA 6010B	
Mercury	ND	0.000200	"	"	4K29015	11/29/04	11/29/04	EPA 7470A	
Nickel	ND	0.00100	"	"	4K24042	11/24/04	11/30/04	EPA 6020	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	12/02/04	"	
Selenium	ND	0.00100	"	"	"	"	11/30/04	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	
LMW8-111704 (B4K0565-03RE1) Water Sampled: 11/17/04 11:10 Received: 11/18/04 14:10									
Manganese	0.597	0.0200	mg/l	2	4K24042	11/24/04	12/01/04	EPA 6020	
LMW9-111704 (B4K0565-04) Water Sampled: 11/17/04 14:05 Received: 11/18/04 14:10									
Silver	ND	0.00100	mg/l	1	4K24042	11/24/04	11/30/04	EPA 6020	
Arsenic	ND	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	12/06/04	"	
Cadmium	ND	0.00100	"	"	"	"	11/30/04	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	1.92	0.150	"	"	4K30019	11/30/04	11/30/04	EPA 6010B	
Mercury	ND	0.000200	"	"	4K29015	11/29/04	11/29/04	EPA 7470A	
Manganese	0.160	0.0100	"	"	4K24042	11/24/04	11/30/04	EPA 6020	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	12/02/04	"	
Selenium	ND	0.00100	"	"	"	"	11/30/04	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW3-111704 (B4K0565-01) Water Sampled: 11/17/04 08:50 Received: 11/18/04 14:10									
Acetone	Not Reportable	20.0	ug/l	1	4K30028	11/30/04	11/30/04	EPA 8260B	A-02
Benzene	ND	1.00	"	"	"	"	"	"	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	"	
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	1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW3-111704 (B4K0565-01) Water Sampled: 11/17/04 08:50 Received: 11/18/04 14:10									
2,2-Dichloropropane	ND	1.00	ug/l	1	4K30028	11/30/04	11/30/04	"	
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	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	
1,1,1-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	0.500	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	100 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW5-111704 (B4K0565-02) Water Sampled: 11/17/04 10:00 Received: 11/18/04 14:10										
Acetone	Not Reportable	20.0		ug/l	1	4K29054	11/24/04	11/25/04	EPA 8260B	A-02
Benzene	ND	1.00		"	"	"	"	"	"	
Bromobenzene	ND	1.00		"	"	"	"	"	"	
Bromochloromethane	ND	1.00		"	"	"	"	"	"	
Bromodichloromethane	ND	1.00		"	"	"	"	"	"	
Bromoform	ND	1.00		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
2-Butanone	ND	10.0		"	"	"	"	"	"	
n-Butylbenzene	ND	1.00		"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00		"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00		"	"	"	"	"	"	
Carbon disulfide	ND	1.00		"	"	"	"	"	"	
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		"	"	"	"	"	"	
Dibromochloromethane	ND	1.00		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00		"	"	"	"	"	"	
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	1.00		"	"	"	"	"	"	
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		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

LMW5-111704 (B4K0565-02) Water Sampled: 11/17/04 10:00 Received: 11/18/04 14:10

2,2-Dichloropropane	ND	1.00		ug/l	1	4K29054	11/24/04	11/25/04	"	
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		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00		"	"	"	"	"	"	
2-Hexanone	ND	10.0		"	"	"	"	"	"	
Isopropylbenzene	ND	1.00		"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0		"	"	"	"	"	"	
Methylene chloride	ND	5.00		"	"	"	"	"	"	
Naphthalene	ND	1.00		"	"	"	"	"	"	
n-Propylbenzene	ND	1.00		"	"	"	"	"	"	
Styrene	ND	1.00		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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		"	"	"	"	"	"	
1,1,1-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	0.500		"	"	"	"	"	"	
o-Xylene	ND	1.00		"	"	"	"	"	"	
m,p-Xylene	ND	2.00		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	102 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130				"	"	"	"	
Surrogate: 4-DFB	100 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW8-111704 (B4K0565-03) Water Sampled: 11/17/04 11:10 Received: 11/18/04 14:10										
Acetone	Not Reportable	20.0		ug/l	1	4K29054	11/24/04	11/25/04	EPA 8260B	A-02
Benzene	ND	1.00		"	"	"	"	"	"	"
Bromobenzene	ND	1.00		"	"	"	"	"	"	"
Bromochloromethane	ND	1.00		"	"	"	"	"	"	"
Bromodichloromethane	ND	1.00		"	"	"	"	"	"	"
Bromoform	ND	1.00		"	"	"	"	"	"	"
Bromomethane	ND	2.00		"	"	"	"	"	"	"
2-Butanone	ND	10.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	1.00		"	"	"	"	"	"	"
sec-Butylbenzene	ND	1.00		"	"	"	"	"	"	"
tert-Butylbenzene	ND	1.00		"	"	"	"	"	"	"
Carbon disulfide	ND	1.00		"	"	"	"	"	"	"
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		"	"	"	"	"	"	"
Dibromochloromethane	ND	1.00		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.00		"	"	"	"	"	"	"
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	1.00		"	"	"	"	"	"	"
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		"	"	"	"	"	"	"

North Creek Analytical - Bothell

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Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW8-111704 (B4K0565-03) Water Sampled: 11/17/04 11:10 Received: 11/18/04 14:10									
2,2-Dichloropropane	ND	1.00	ug/l	1	4K29054	11/24/04	11/25/04	"	
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	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	
1,1,1-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	0.500	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	106 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:58
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Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW9-111704 (B4K0565-04) Water Sampled: 11/17/04 14:05 Received: 11/18/04 14:10										
Acetone	Not Reportable	20.0		ug/l	1	4K30028	11/30/04	11/30/04	EPA 8260B	A-02
Benzene	ND	1.00		"	"	"	"	"	"	
Bromobenzene	ND	1.00		"	"	"	"	"	"	
Bromochloromethane	ND	1.00		"	"	"	"	"	"	
Bromodichloromethane	ND	1.00		"	"	"	"	"	"	
Bromoform	ND	1.00		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
2-Butanone	ND	10.0		"	"	"	"	"	"	
n-Butylbenzene	ND	1.00		"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00		"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00		"	"	"	"	"	"	
Carbon disulfide	ND	1.00		"	"	"	"	"	"	
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		"	"	"	"	"	"	
Dibromochloromethane	ND	1.00		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00		"	"	"	"	"	"	
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	1.00		"	"	"	"	"	"	
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		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW9-111704 (B4K0565-04) Water Sampled: 11/17/04 14:05 Received: 11/18/04 14:10									
2,2-Dichloropropane	ND	1.00	ug/l	1	4K30028	11/30/04	11/30/04	"	
1,1-Dichloropropane	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	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	
1,1,1-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	0.500	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 541.383.9310 fax 541.382.7588
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K22060: Prepared 11/22/04 Using EPA 3520C

Blank (4K22060-BLK1)

Gx Range Hydrocarbons	ND	0.250	mg/l							
Kerosene Range Hydrocarbons	ND	0.630	"							
Diesel Range Hydrocarbons	ND	0.630	"							
Insulating Oil Range Hydrocarbons	ND	0.630	"							
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"							
Lube Oil Range Hydrocarbons	ND	0.630	"							
Surrogate: 2-FBP	DET		"	0.250		102	50-150			
Surrogate: Octacosane	DET		"	0.240		103	50-150			

LCS (4K22060-BS1)

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.87		92.5	58-125			
Surrogate: 2-FBP	DET		"	0.250		111	50-150			

LCS Dup (4K22060-BSD1)

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.87		91.4	58-125	1.16	40	
Surrogate: 2-FBP	DET		"	0.250		92.8	50-150			

Matrix Spike (4K22060-MS2)

Source: B4K0565-04

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.76	0.0489	102	25-149			
Surrogate: 2-FBP	DET		"	0.236		105	50-150			

Matrix Spike Dup (4K22060-MSD2)

Source: B4K0565-04

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.76	0.0489	83.6	25-149	19.0	200	
Surrogate: 2-FBP	DET		"	0.236		83.5	50-150			

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
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 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K24042: Prepared 11/24/04 Using EPA 3005A

Blank (4K24042-BLK1)

Silver	ND	0.00100	mg/l							
Arsenic	ND	0.00100	"							
Beryllium	ND	0.00100	"							
Cadmium	ND	0.00100	"							
Chromium	ND	0.00100	"							
Copper	ND	0.00100	"							
Manganese	ND	0.0100	"							
Nickel	ND	0.00100	"							
Lead	ND	0.00100	"							
Antimony	ND	0.00300	"							
Selenium	ND	0.00100	"							
Thallium	ND	0.00100	"							
Zinc	ND	0.0100	"							

LCS (4K24042-BS1)

Silver	0.198	0.00100	mg/l	0.200		99.0	80-120			
Arsenic	0.195	0.00100	"	0.200		97.5	80-120			
Beryllium	0.207	0.00100	"	0.200		104	80-120			
Cadmium	0.197	0.00100	"	0.200		98.5	80-120			
Chromium	0.206	0.00100	"	0.200		103	80-120			
Copper	0.198	0.00100	"	0.200		99.0	80-120			
Manganese	0.208	0.0100	"	0.200		104	80-120			
Nickel	0.201	0.00100	"	0.200		100	80-120			
Lead	0.198	0.00100	"	0.200		99.0	80-120			
Antimony	0.0518	0.00300	"	0.0500		104	80-120			
Selenium	0.195	0.00100	"	0.200		97.5	80-120			
Thallium	0.197	0.00100	"	0.200		98.5	80-120			
Zinc	0.195	0.0100	"	0.200		97.5	80-120			

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
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 509.924.9200 fax 509.924.9290
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:58
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Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K24042: Prepared 11/24/04 Using EPA 3005A

LCS Dup (4K24042-BSD1)

Silver	0.196	0.00100	mg/l	0.200		98.0	80-120	1.02	20	
Arsenic	0.195	0.00100	"	0.200		97.5	80-120	0.00	20	
Beryllium	0.200	0.00100	"	0.200		100	80-120	3.44	20	
Cadmium	0.196	0.00100	"	0.200		98.0	80-120	0.509	20	
Chromium	0.203	0.00100	"	0.200		102	80-120	1.47	20	
Copper	0.197	0.00100	"	0.200		98.5	80-120	0.506	20	
Manganese	0.206	0.0100	"	0.200		103	80-120	0.966	20	
Nickel	0.200	0.00100	"	0.200		100	80-120	0.499	20	
Lead	0.196	0.00100	"	0.200		98.0	80-120	1.02	20	
Antimony	0.0522	0.00300	"	0.0500		104	80-120	0.769	20	
Selenium	0.195	0.00100	"	0.200		97.5	80-120	0.00	20	
Thallium	0.194	0.00100	"	0.200		97.0	80-120	1.53	20	
Zinc	0.194	0.0100	"	0.200		97.0	80-120	0.514	20	

Matrix Spike (4K24042-MS1)

Source: B4K0565-04

Silver	0.0817	0.00100	mg/l	0.100	ND	81.7	43-124			
Arsenic	0.104	0.00100	"	0.100	0.000510	103	70-138			
Beryllium	0.0987	0.00100	"	0.100	ND	98.7	80-125			
Cadmium	0.0908	0.00100	"	0.100	ND	90.8	80-125			
Chromium	0.0942	0.00100	"	0.100	0.000520	93.7	76-125			
Copper	0.0860	0.00100	"	0.101	0.000590	84.6	71-125			
Manganese	0.250	0.0100	"	0.100	0.160	90.0	54-158			
Nickel	0.0875	0.00100	"	0.0995	0.000510	87.4	73-125			
Lead	0.0880	0.00100	"	0.0995	ND	88.4	78-125			
Antimony	0.0478	0.00300	"	0.0500	ND	95.6	63-126			
Selenium	0.108	0.00100	"	0.100	0.000390	108	61-156			
Thallium	0.0904	0.00100	"	0.100	ND	90.4	78-125			
Zinc	0.0946	0.0100	"	0.0995	0.00283	92.2	70-127			

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
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Project: Landsburg Mine
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Amended Report
 Issued: 12/15/04 16:58

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K24042: Prepared 11/24/04 Using EPA 3005A

Matrix Spike Dup (4K24042-MSD1)

Source: B4K0565-04

Silver	0.0846	0.00100	mg/l	0.100	ND	84.6	43-124	3.49	50	
Arsenic	0.107	0.00100	"	0.100	0.000510	106	70-138	2.84	20	
Beryllium	0.0984	0.00100	"	0.100	ND	98.4	80-125	0.304	20	
Cadmium	0.0953	0.00100	"	0.100	ND	95.3	80-125	4.84	20	
Chromium	0.0986	0.00100	"	0.100	0.000520	98.1	76-125	4.56	20	
Copper	0.0904	0.00100	"	0.101	0.000590	88.9	71-125	4.99	20	
Manganese	0.258	0.0100	"	0.100	0.160	98.0	54-158	3.15	20	
Nickel	0.0914	0.00100	"	0.0995	0.000510	91.3	73-125	4.36	20	
Lead	0.0916	0.00100	"	0.0995	ND	92.1	78-125	4.01	20	
Antimony	0.0480	0.00300	"	0.0500	ND	96.0	63-126	0.418	20	
Selenium	0.110	0.00100	"	0.100	0.000390	110	61-156	1.83	20	
Thallium	0.0936	0.00100	"	0.100	ND	93.6	78-125	3.48	20	
Zinc	0.0988	0.0100	"	0.0995	0.00283	96.5	70-127	4.34	20	

Batch 4K29015: Prepared 11/29/04 Using EPA 7470A

Blank (4K29015-BLK1)

Mercury	ND	0.000200	mg/l							
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LCS (4K29015-BS1)

Mercury	0.00483	0.000200	mg/l	0.00500		96.6	80-120			
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LCS Dup (4K29015-BSD1)

Mercury	0.00503	0.000200	mg/l	0.00500		101	80-120	4.06	20	
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Matrix Spike (4K29015-MS1)

Source: B4K0565-04

Mercury	0.00539	0.000200	mg/l	0.00500	0.000116	105	70-130			
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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K29015: Prepared 11/29/04 Using EPA 7470A

Matrix Spike (4K29015-MS2)

Source: B4K0550-05

Mercury	0.00482	0.000200	mg/l	0.00500	0.000171	93.0	70-130			
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Matrix Spike (4K29015-MS3)

Source: B4K0550-06

Mercury	0.00490	0.000200	mg/l	0.00500	0.0000916	96.2	70-130			
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Matrix Spike (4K29015-MS4)

Source: B4K0550-07

Mercury	0.00490	0.000200	mg/l	0.00500	0.000104	95.9	70-130			
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Matrix Spike Dup (4K29015-MSD1)

Source: B4K0565-04

Mercury	0.00512	0.000200	mg/l	0.00500	0.000116	100	70-130	5.14	20	
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Matrix Spike Dup (4K29015-MSD2)

Source: B4K0550-05

Mercury	0.00499	0.000200	mg/l	0.00500	0.000171	96.4	70-130	3.47	20	
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Matrix Spike Dup (4K29015-MSD3)

Source: B4K0550-06

Mercury	0.00508	0.000200	mg/l	0.00500	0.0000916	99.8	70-130	3.61	20	
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Matrix Spike Dup (4K29015-MSD4)

Source: B4K0550-07

Mercury	0.00497	0.000200	mg/l	0.00500	0.000104	97.3	70-130	1.42	20	
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Batch 4K30019: Prepared 11/30/04 Using EPA 3005A

Blank (4K30019-BLK1)

Iron	ND	0.150	mg/l							
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LCS (4K30019-BS1)

Iron	4.99	0.150	mg/l	5.00		99.8	80-120			
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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K30019: Prepared 11/30/04 Using EPA 3005A

LCS Dup (4K30019-BSD1)

Iron	4.94	0.150	mg/l	5.00		98.8	80-120	1.01	20	
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Matrix Spike (4K30019-MS1)

Source: B4K0507-01

Iron	5.41	0.150	mg/l	5.00	0.114	106	80-120			
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Matrix Spike (4K30019-MS2)

Source: B4K0565-04

Iron	7.10	0.150	mg/l	5.00	1.92	104	80-120			
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Matrix Spike Dup (4K30019-MSD1)

Source: B4K0507-01

Iron	5.27	0.150	mg/l	5.00	0.114	103	80-120	2.62	20	
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Matrix Spike Dup (4K30019-MSD2)

Source: B4K0565-04

Iron	7.27	0.150	mg/l	5.00	1.92	107	80-120	2.37	20	
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 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K29054: Prepared 11/24/04 Using EPA 5030B

Blank (4K29054-BLK1)

Acetone	ND	20.0	ug/l
Benzene	ND	1.00	"
Bromobenzene	ND	1.00	"
Bromochloromethane	ND	1.00	"
Bromodichloromethane	ND	1.00	"
Bromoform	ND	1.00	"
Bromomethane	ND	2.00	"
2-Butanone	ND	10.0	"
n-Butylbenzene	ND	1.00	"
sec-Butylbenzene	ND	1.00	"
tert-Butylbenzene	ND	1.00	"
Carbon disulfide	ND	1.00	"
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	"
Dibromochloromethane	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	5.00	"
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	1.00	"
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	"

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
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 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K29054: Prepared 11/24/04 Using EPA 5030B

Blank (4K29054-BLK1)

2,2-Dichloropropane	ND	1.00	ug/l							
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	"							
Methyl tert-butyl ether	ND	2.00	"							
2-Hexanone	ND	10.0	"							
Isopropylbenzene	ND	1.00	"							
p-Isopropyltoluene	ND	1.00	"							
4-Methyl-2-pentanone	ND	10.0	"							
Methylene chloride	ND	5.00	"							
Naphthalene	ND	1.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	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	"							
1,1,1-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	0.500	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surrogate: 1,2-DCA-d4	19.8		"	20.0		99.0	70-130			
Surrogate: Toluene-d8	20.0		"	20.0		100	70-130			
Surrogate: 4-BFB	20.9		"	20.0		104	70-130			

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:58
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K29054: Prepared 11/24/04 Using EPA 5030B

LCS (4K29054-BS1)

Benzene	19.2	1.00	ug/l	20.0		96.0	80-120			
Chlorobenzene	19.0	1.00	"	20.0		95.0	77-120			
1,1-Dichloroethene	18.4	1.00	"	20.0		92.0	80-120			
Methyl tert-butyl ether	18.5	2.00	"	20.0		92.5	80-120			
Toluene	18.7	1.00	"	20.0		93.5	80-120			
Trichloroethene	18.8	1.00	"	20.0		94.0	80-120			
Surrogate: 1,2-DCA-d4	19.5		"	20.0		97.5	70-130			
Surrogate: Toluene-d8	19.7		"	20.0		98.5	70-130			
Surrogate: 4-BFB	19.5		"	20.0		97.5	70-130			

LCS Dup (4K29054-BSD1)

Benzene	19.2	1.00	ug/l	20.0		96.0	80-120	0.00	20	
Chlorobenzene	18.9	1.00	"	20.0		94.5	77-120	0.528	20	
1,1-Dichloroethene	19.0	1.00	"	20.0		95.0	80-120	3.21	20	
Methyl tert-butyl ether	18.2	2.00	"	20.0		91.0	80-120	1.63	20	
Toluene	19.4	1.00	"	20.0		97.0	80-120	3.67	20	
Trichloroethene	18.8	1.00	"	20.0		94.0	80-120	0.00	20	
Surrogate: 1,2-DCA-d4	19.1		"	20.0		95.5	70-130			
Surrogate: Toluene-d8	20.0		"	20.0		100	70-130			
Surrogate: 4-BFB	19.7		"	20.0		98.5	70-130			

Batch 4K30028: Prepared 11/30/04 Using EPA 5030B

Blank (4K30028-BLK1)

Acetone	ND	20.0	ug/l							
Benzene	ND	1.00	"							
Bromobenzene	ND	1.00	"							
Bromochloromethane	ND	1.00	"							
Bromodichloromethane	ND	1.00	"							
Bromoform	ND	1.00	"							
Bromomethane	ND	2.00	"							
2-Butanone	ND	10.0	"							
n-Butylbenzene	ND	1.00	"							
sec-Butylbenzene	ND	1.00	"							
tert-Butylbenzene	ND	1.00	"							

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
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 541.383.9310 fax 541.382.7588
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 18300 NE Union Hill Rd, Suite 200
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Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

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 Issued: 12/15/04 16:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K30028: Prepared 11/30/04 Using EPA 5030B

Blank (4K30028-BLK1)

Carbon disulfide	ND	1.00	ug/l
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	"
Dibromochloromethane	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	5.00	"
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	1.00	"
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	1.00	"
Methyl tert-butyl ether	ND	2.00	"
2-Hexanone	ND	10.0	"
Isopropylbenzene	ND	1.00	"
p-Isopropyltoluene	ND	1.00	"
4-Methyl-2-pentanone	ND	10.0	"

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 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K30028: Prepared 11/30/04 Using EPA 5030B

Blank (4K30028-BLK1)

Methylene chloride	ND	2.00	ug/l							
Naphthalene	ND	1.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	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	"							
1,1,1-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	0.500	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surrogate: 1,2-DCA-d4	20.9		"	20.0		104	70-130			
Surrogate: Toluene-d8	20.0		"	20.0		100	70-130			
Surrogate: 4-BFB	20.6		"	20.0		103	70-130			

LCS (4K30028-BS1)

Benzene	19.3	1.00	ug/l	20.0		96.5	80-120			
Chlorobenzene	19.3	1.00	"	20.0		96.5	77-120			
1,1-Dichloroethene	19.6	1.00	"	20.0		98.0	80-120			
Methyl tert-butyl ether	21.2	2.00	"	20.0		106	80-120			
Toluene	20.4	1.00	"	20.0		102	80-120			
Trichloroethene	19.2	1.00	"	20.0		96.0	80-120			
Surrogate: 1,2-DCA-d4	19.8		"	20.0		99.0	70-130			
Surrogate: Toluene-d8	20.7		"	20.0		104	70-130			
Surrogate: 4-BFB	19.4		"	20.0		97.0	70-130			

North Creek Analytical - Bothell

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 Project Manager: Douglas Morell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4K30028: Prepared 11/30/04 Using EPA 5030B

LCS Dup (4K30028-BSD1)

Benzene	20.6	1.00	ug/l	20.0		103	80-120	6.52	20	
Chlorobenzene	20.2	1.00	"	20.0		101	77-120	4.56	20	
1,1-Dichloroethene	21.5	1.00	"	20.0		108	80-120	9.25	20	
Methyl tert-butyl ether	21.6	2.00	"	20.0		108	80-120	1.87	20	
Toluene	21.4	1.00	"	20.0		107	80-120	4.78	20	
Trichloroethene	20.9	1.00	"	20.0		104	80-120	8.48	20	
Surrogate: 1,2-DCA-d4	19.7		"	20.0		98.5	70-130			
Surrogate: Toluene-d8	20.4		"	20.0		102	70-130			
Surrogate: 4-BFB	19.6		"	20.0		98.0	70-130			

Matrix Spike (4K30028-MS1)

Source: B4K0550-06

Benzene	22.0	1.00	ug/l	20.0	ND	110	63-148			
Chlorobenzene	20.8	1.00	"	20.0	ND	104	80-128			
1,1-Dichloroethene	23.5	1.00	"	20.0	ND	118	59-158			
Methyl tert-butyl ether	23.7	2.00	"	20.0	ND	118	60-140			
Toluene	22.4	1.00	"	20.0	ND	112	72-127			
Trichloroethene	23.0	1.00	"	20.0	ND	115	80-126			
Surrogate: 1,2-DCA-d4	19.8		"	20.0		99.0	70-130			
Surrogate: Toluene-d8	19.3		"	20.0		96.5	70-130			
Surrogate: 4-BFB	19.7		"	20.0		98.5	70-130			

Matrix Spike (4K30028-MS2)

Source: B4K0550-07

Benzene	22.0	1.00	ug/l	20.0	ND	110	63-148			
Chlorobenzene	20.7	1.00	"	20.0	ND	104	80-128			
1,1-Dichloroethene	23.1	1.00	"	20.0	ND	116	59-158			
Methyl tert-butyl ether	22.9	2.00	"	20.0	ND	114	60-140			
Toluene	22.9	1.00	"	20.0	ND	114	72-127			
Trichloroethene	22.7	1.00	"	20.0	ND	114	80-126			
Surrogate: 1,2-DCA-d4	19.6		"	20.0		98.0	70-130			
Surrogate: Toluene-d8	20.0		"	20.0		100	70-130			
Surrogate: 4-BFB	20.3		"	20.0		102	70-130			

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002
 Project Manager: Douglas Morell

Amended Report
 Issued: 12/15/04 16:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K30028: Prepared 12/01/04 Using EPA 5030B

Matrix Spike (4K30028-MS3)

Source: B4K0565-04

Benzene	21.8	1.00	ug/l	20.0	ND	109	63-148			
Chlorobenzene	20.6	1.00	"	20.0	ND	103	80-128			
1,1-Dichloroethene	23.7	1.00	"	20.0	ND	118	59-158			
Methyl tert-butyl ether	22.9	2.00	"	20.0	ND	114	60-140			
Toluene	22.4	1.00	"	20.0	ND	112	72-127			
Trichloroethene	22.8	1.00	"	20.0	ND	114	80-126			
Surrogate: 1,2-DCA-d4	19.6		"	20.0		98.0	70-130			
Surrogate: Toluene-d8	19.4		"	20.0		97.0	70-130			
Surrogate: 4-BFB	20.5		"	20.0		102	70-130			

Matrix Spike Dup (4K30028-MSD1)

Source: B4K0550-06

Benzene	20.2	1.00	ug/l	20.0	ND	101	63-148	8.53	20	
Chlorobenzene	19.7	1.00	"	20.0	ND	98.5	80-128	5.43	20	
1,1-Dichloroethene	21.4	1.00	"	20.0	ND	107	59-158	9.35	30	
Methyl tert-butyl ether	22.4	2.00	"	20.0	ND	112	60-140	5.64	30	
Toluene	20.6	1.00	"	20.0	ND	103	72-127	8.37	20	
Trichloroethene	21.2	1.00	"	20.0	ND	106	80-126	8.14	20	
Surrogate: 1,2-DCA-d4	19.2		"	20.0		96.0	70-130			
Surrogate: Toluene-d8	19.2		"	20.0		96.0	70-130			
Surrogate: 4-BFB	20.4		"	20.0		102	70-130			

Matrix Spike Dup (4K30028-MSD2)

Source: B4K0550-07

A-01

Benzene	20.3	1.00	ug/l	20.0	ND	102	63-148	8.04	20	
Chlorobenzene	19.5	1.00	"	20.0	ND	97.5	80-128	5.97	20	
1,1-Dichloroethene	20.5	1.00	"	20.0	ND	102	59-158	11.9	30	
Methyl tert-butyl ether	22.2	2.00	"	20.0	ND	111	60-140	3.10	30	
Toluene	21.2	1.00	"	20.0	ND	106	72-127	7.71	20	
Trichloroethene	21.4	1.00	"	20.0	ND	107	80-126	5.90	20	
Surrogate: 1,2-DCA-d4	19.2		"	20.0		96.0	70-130			
Surrogate: Toluene-d8	19.6		"	20.0		98.0	70-130			
Surrogate: 4-BFB	20.9		"	20.0		104	70-130			

North Creek Analytical - Bothell

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 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000-002 Project Manager: Douglas Morell	Amended Report Issued: 12/15/04 16:58
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
		Limit	Units							

Batch 4K30028: Prepared 12/01/04 Using EPA 5030B

Matrix Spike Dup (4K30028-MSD3)

Source: B4K0565-04

Benzene	20.4	1.00	ug/l	20.0	ND	102	63-148	6.64	20	
Chlorobenzene	20.0	1.00	"	20.0	ND	100	80-128	2.96	20	
1,1-Dichloroethene	22.2	1.00	"	20.0	ND	111	59-158	6.54	30	
Methyl tert-butyl ether	23.0	2.00	"	20.0	ND	115	60-140	0.436	30	
Toluene	20.9	1.00	"	20.0	ND	104	72-127	6.93	20	
Trichloroethene	21.2	1.00	"	20.0	ND	106	80-126	7.27	20	
Surrogate: 1,2-DCA-d4	18.9		"	20.0		94.5	70-130			
Surrogate: Toluene-d8	19.7		"	20.0		98.5	70-130			
Surrogate: 4-BFB	20.2		"	20.0		101	70-130			

North Creek Analytical - Bothell

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Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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 Anchorage 2800 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

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Notes and Definitions

- A-01 The Matrix Spike Duplicate was analyzed one minute outside of the twelve hour QC window.
- A-02 Vials from lot# 4293060 contaminated with Acetone.
- NR Not Reportable
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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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
 3209 Denali St, Anchorage, AK 99503-4030

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 CUSTODY REPORT

Work Order #: BL/K0565

CLIENT: <u>Goldco Associates Inc.</u>			INVOICE TO:			TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> <input type="checkbox"/> OTHER Specify: _____ <small>* Turnaround Requests less than standard may incur Rush Charges.</small>													
REPORT TO: <u>Ryan Vannier</u>			P.O. NUMBER:																
ADDRESS: <u>18300 NE Union Hill Rd. Ste. 200</u> <u>Redmond, WA 98052</u>																			
PHONE: <u>425-833-0777</u> FAX:																			
PROJECT NAME: <u>Landsburg</u>			PRESERVATIVE																
PROJECT NUMBER: <u>923-1000.002.R273</u>			REQUESTED ANALYSES																
SAMPLED BY: <u>Ryan Vannier</u>			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td> <td style="width:10%; text-align: center;">HCl</td> <td style="width:10%; text-align: center;">HNO₃</td> <td style="width:10%; text-align: center;">HCl</td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> </tr> </table>				HCl	HNO ₃	HCl										
	HCl	HNO ₃	HCl																
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOCs	Metals	HCID							MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID					
1 LMW3-111704	11/17/04 0850	X	X	X							W	6		01					
2 LMW5-111704	1000	X	X	X							W	6		02					
3 LMW8-111704	1110	X	X	X							W	6		03					
4 LMW9-111704	1405	X	X	X							W	12	Extraction MS/MSD if needed	04					
5																			
6																			
7																			
8																			
9																			
10																			
RELEASED BY: <u>[Signature]</u>			DATE: <u>11/17/04</u>			RECEIVED BY: <u>[Signature]</u>			DATE: <u>11/18/04</u>										
PRINT NAME: <u>Ryan Vannier</u>			FIRM: <u>Goldco</u>			PRINT NAME: <u>Dawn Hollers</u>			FIRM: <u>NCA</u>			TIME: <u>1410</u>							
RELEASED BY:			DATE:			RECEIVED BY:			DATE:										
PRINT NAME:			FIRM:			PRINT NAME:			FIRM:			TIME:							
ADDITIONAL REMARKS: <u>Metals samples were field filtered</u>																			
COC REV 1/03												W/O	TEMP: <u>5.9°C</u>	PAGE 1 OF 1					