

Golder Associates Inc.

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April 27, 2006

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 – FEBRUARY, 2006**

Dear Mr. Kombol:

Golder Associates Inc. (Golder) completed an interim groundwater monitoring event at the Landsburg Mine Site during February, 2006. Groundwater samples were collected from monitoring wells LMW-2, LMW-4, LMW-5, LMW-6, LMW-7, LMW-8, LMW-9, LMW-10, LMW-11 and Piezometer P-2 (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. Monitoring well LMW-5 is completed to monitor a deeper zone (~ 250 feet depth) within the Rogers coal seam south of the subsidence trench. Piezometer P-2 monitors the Portal 3 incline shaft and monitoring well LMW-8 monitors discharging groundwater from Portal 3 at the south end on the Rogers Coal Mine. 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 from Well LMW-9 and the new deep Well LMW-11, which monitor groundwater from within the Rogers Coal Mine near its south end. Wells LMW-9 and LMW-11 are receiving groundwater from near the top of the water table and near the bottom of the mine, respectively. Wells LMW-6 and LMW-7 monitor groundwater from the Frasier and Landsburg coal mines to the west and east of the Rogers coal mine, respectively.

Well LMW-11 was drilled and installed by mid-October, 2005. LMW-11 is a 700 foot monitoring well that extends near the bottom and south end of the Rogers Coal Mine. The borehole log and well installation diagram for LMW-11 is provided in Appendix A. The February 2006 sampling event included the acquisition and analysis of a groundwater sample from Well LMW-11.

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 including: pH, specific conductance, temperature, dissolved oxygen, Eh, and turbidity;
- Collection of representative samples in appropriate containers; metals samples were not field filtered; and
- Analyses of groundwater for volatile organic compounds (EPA Method 8260B), semi-volatile organic compounds (EPA Method 8270C), polychlorinated biphenyls (PCBs) (EPA Method 8082), pesticides (EPA 8081A), priority pollutant metals (EPA Method 6000/7000 Series), major anions (standard wet chemistry methods), cyanide (Method SM4500 and EPA Method 9010B) and a petroleum hydrocarbon identification scan (HCID). The number of analytes for each sample totals about 200 hazardous substances.
- Geochemical parameters for evaluation of natural attenuation mechanisms were conducted on groundwater samples from Wells LMW-11 (deep groundwater within the mine), LMW-9 (shallow groundwater within the mine) and Piezometer P-2 (groundwater discharging from the mine). The geochemical parameters included:
 - Ferrous and ferric iron;
 - Nitrate, nitrite, ammonia and Kjeldahl nitrogen species;
 - Sulfate and sulfide sulfur species; and
 - Dissolved gases hydrogen, methane, ethane, and ethene.

The attached Appendix B presents the laboratory analytical reports and data validation summaries for all analyses. Sampling activities were documented on Sample Integrity Data Sheets (SIDS). Copies of the completed SIDS are provided in Appendix C. Table 1 presents water depth measurements and elevations that were 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. 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.

The analytical results indicate no significant changes in groundwater conditions from those observed during the remedial investigation (RI) and on-going interim groundwater monitoring. The analytical results did not detect any organic compound in any of the groundwater samples. The practical quantification limits (PQLs) and detection limits for all compounds were at or below acceptable concentrations under the Model Toxics Control Act (MTCA). The only parameters detected in groundwater samples were metals and major anions that are naturally occurring, which are summarized in Table 2.

Iron and manganese are the only metals that were detected in several wells 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 February, 2006 sampling event are similar to concentrations detected during the RI (Golder, 1996)¹ and the Interim Groundwater Sampling events held previously.

Several groundwater samples contained iron and manganese concentrations above State of Washington secondary drinking water 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 February, 2006 sampling event are similar to concentrations detected during the RI (Golder, 1996)² and the Interim Groundwater Sampling events held previously.

The groundwater sample from the new deep well (LMW-11) contained arsenic at a concentration equivalent to the Washington State primary drinking water MCL of 10 ug/L, but higher than the MTCA cleanup level of 5 ug/L. Arsenic is also a naturally occurring metal commonly detectable in groundwater. The MTCA groundwater cleanup level is actually based on groundwater background levels in the State. Since 10 ug/L is only slightly above the MTCA cleanup level, it is probable that the arsenic concentrations are naturally occurring deep within the mine where groundwater is more stagnant and its geochemistry may be different than shallow groundwater within the mine.

Several volatile organic compounds that are associated with petroleum fuels have been detected from newly installed monitoring wells. Groundwater monitoring results of LMW-10, after its installation, detected trace concentrations (<1 ug/L) of benzene and toluene (April/May, 2004 data; August, 2004 data; and May 2005 data). Several groundwater samples, obtained from LMW-11 after installation, also contained benzene, toluene, and xylenes at trace concentrations and below drinking water levels. The concentrations of the observed compounds showed a definitive decreasing trend with time and were not detectable in the latest samples obtained in February 2006. The conclusion is that the borehole drilling locally affected groundwater quality in deeper wells at the site because the compressor air of the air-rotary drill rig used to blow cuttings from the borehole probably had some entrained volatile organics that dissolved within the borehole groundwater. This phenomenon has been observed elsewhere in deep bedrock wells after installation³. Since the concentrations of these volatile organics have become undetectable and not increased or even stayed constant, the source could not be from the waste materials disposed at the Landsburg Mine site.

The geochemical attenuation properties of groundwater in the mine were evaluated. Groundwater from Well LMW-11 (near the bottom of the mine at the south end), Well LMW-9 (near the top of the water table in the southern end of the mine), and Piezometer P-2 (in the incline shaft at the south end of the mine) were analyzed for iron, nitrogen and sulfur speciation and for dissolved gases of hydrogen, methane, ethene and ethane. The results are presented on Table 2. The results indicate that groundwater in the mine is probably anaerobic and would be capable of anaerobic biologic degradation of chlorinated solvents based on initial screening in accordance with *Guidance on Developing a Monitored Natural Attenuation Remedial Proposal for Chlorinated Organics in Ground Water* (North Carolina Division of Waste Management – Hazardous Waste Section, 2000).

¹ Golder Associates Inc., 1996. *Remedial Investigation and Feasibility Study for the Landsburg Mine Site*. Landsburg PLP Steering Committee.

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

³ Personal Communication with Steven Hulsman. February 7, 2006. Washington State Department of Health – NW Drinking water Operations. Kent, Washington.

Palmer Coking Coal Company
Mr. Bill Kombol

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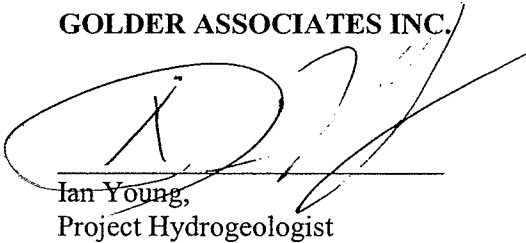
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Because a source of chlorinated solvents in mine groundwater at the south end does not exist, the daughter products of solvent sources would not be detected and used as definitive evidence of active anaerobic bio-degradation process occurring. The conditions appear to be suitable for anaerobic bio-degradation, if a solvent source were present.

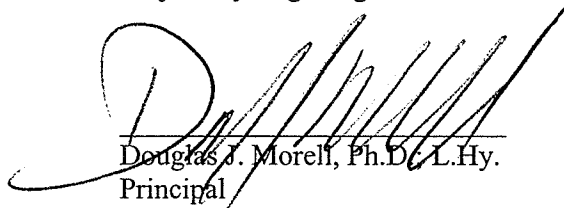
If you have any questions or require any additional information, please contact Douglas Morell at (425) 883-0777.

Sincerely,

GOLDER ASSOCIATES INC.



Ian Young,
Project Hydrogeologist



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

DJM/TY/mkr

TABLES

TABLE 1

GROUNDWATER ELEVATION DATA COLLECTED 2/13/2006
LANDSBURG MINE SITE

	UNITS	LMW-1	LMW-1a	LMW-2	LMW-3	LMW-4*	LMW-5	LMW-6	LMW-7*	LMW-8	LMW-9	LMW-10	LMW-11	P-2	Water Drainage	Frazier Seam Tunnel
Water Depths																
Time of data collection	ft bgs	11:13 AM	NA	10:45 AM	12:38 AM	10:49 AM	12:25 AM	11:20 AM	10:35 AM	12:45 AM	11:45 AM	10:55 AM	12:05 AM	12:49 AM	NA	NA
Measured to Top of PVC	ft bgs	141.10	NC	6.03	11.45	7.48	12.99	22.71	211.37	3.12	98.81	0.24	156.68	6.07	NA	NA
Measured to Top of Monument	ft bgs	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NA	NA
Surveyed Elevation																
Top of PVC	ft asl	765.16	759.51	617.73	656.75	619.26	658.27	632.33	771.51	646.97	743.99	618.87	801.87	651.37	NA	NA
Top of Monument	ft asl	765.89	NC	618.29	657.48	619.85	658.87	633.00	771.88	NC	NC	NC	802.20	NC	NA	NA
Ground Level	ft asl	762.90	756.59	615.35	654.40	617.09	655.63	629.95	768.79	645.25	741.13	615.75	799.50	648.54	551.38	542.15
Corrected Water Elevation																
Using PVC elevation	ft asl	624.06	NA	611.70	645.30	611.78	645.28	609.62	560.14	643.85	645.18	618.63	645.19	645.30	NA	NA
Using Monument elevation	ft asl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Notes:																
* = Data corrected to accomodate well inclination of 70° from horizontal																
NA = Not applicable.																
NC = Data not collected.																

TABLE 2
 FEBRUARY, 2006 GROUNDWATER ANALYTICAL RESULTS
 LANDSBURG MINE SITE

Nitrogen	UNITS	Most Stringent MTCA GW Criteria	Most Stringent MTCA SW Criteria	LMW-2	P-2	LMW-4	LMW-5	LMW-6	LMW-7	LMW-8	LMW-9	LMW-10	LMW-11
				2/17/2006	2/16/2006	2/17/2006	2/17/2006	2/20/2006	2/20/2006	2/21/2006	2/20/2006	2/20/2006	2/16/2006
Field Parameters													
pH	stnd	>6.5 - < 8.5	>6.5 - < 9	6.84	6.92	7.07	7.05	7.21	7.20	7.09	7.20	8.76	7.10
Conductivity	uS/cm			612	501	669	568	169.4	487	258	543	284	387
Dissolved Oxygen	mg/L			0.20	0.29	0.20	0.10	0.44	0.55	1.17	0.64	0.91	0.28
Temperature	°C			10.5	11.1	10.6	10.7	9.5	11.6	8.9	11.3	9.6	11.4
Redox Potential	millivolts			-33.7	65.0	-104.2	-51.7	20.0	-223.5	0.5	0.98	0.92	134.2
Turbidity	NTU			0.73	1.48	0.47	0.44	1.31	0.62	1.92	-277.9	-266.3	1.45
Metals													
Antimony	mg/l	0.006	0.0056	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
Aluminum	mg/l	0.2	0.087	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
Arsenic	mg/l	0.005	0.005	0.001 U	0.00128	0.001 U	0.001 U	0.001 U	0.00196	0.00127	0.001 U	0.001 U	0.01
Barium	mg/l	2		0.352	0.286	0.356	0.29	0.109	0.493	0.0386	0.326	0.0349	0.293
Beryllium	mg/l	0.004	0.004	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
Cadmium	mg/l	0.005	0.0005	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
Chromium	mg/l	0.048	0.048 (0.01 Cr+6)	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	0.0016
Cobalt	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	0.00153
Copper	mg/l	0.64	0.023	0.001 U	0.00107	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00127
Iron	mg/l	0.3	1	0.15 U	1.23	0.563	0.421	2.07	0.987	5.75	1.59	0.15 U	2.38
Lead	mg/l	0.005	0.008	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
Manganese	mg/l	0.05		0.229	0.232	0.187	0.28	0.0344	0.149	0.376	0.182	0.01 U	0.195
Mercury	mg/l	0.002	0.000012	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
Nickel	mg/l	0.1	0.132	0.00253	0.00283	0.00192	0.00163	0.001 U	0.00147	0.00143	0.00158	0.001 U	0.0051
Selenium	mg/l	0.05	0.005	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
Silver	mg/l	0.1	0.021 (acute only)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0054	0.001 U	0.001 U
Thallium	mg/l	0.00112	0.0017	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
Vanadium	mg/l			0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00103	0.001 U	0.001 U	0.00109
Zinc	mg/l	4.8	0.265	0.01 U	0.01 U	0.0125	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

TABLE 2
 FEBRUARY, 2006 GROUNDWATER ANALYTICAL RESULTS
 LANDSBURG MINE SITE

Nitrogen	UNITS	Most Stringent MTCA GW Criteria	Most Stringent MTCA SW Criteria	LMW-2	P-2	LMW-4	LMW-5	LMW-6	LMW-7	LMW-8	LMW-9	LMW-10	LMW-11
				2/17/2006	2/16/2006	2/17/2006	2/17/2006	2/20/2006	2/20/2006	2/21/2006	2/20/2006	2/20/2006	2/16/2006
Major Cations and Anions													
Calcium	mg/L			119	84.3	118	97.2	24.5	54	34.6	80.5	6.3	61
Magnesium	mg/L			72.3	47.4	71	55.1	12.7	26.2	18.7	45.9	2.71	30.7
Sodium	mg/L			22.8	16.1	26.6	17.8	6.86	48.3	8.72	17.7	72.3	24.5
Potassium	mg/L			3.64	2.75	3.38	2.97	2.0 U	3.14	2.24	4.71	2.0 U	2.0 U
Total Alkalinity	mg/L (as CaCO ₃)			637	456	628	511	121	368	191	428	199	355
Sulfate	mg/L	250		15.4	25.2	15.7	35.8	15.8	5.26	1.43	6.83	4.13	13.3
Chloride	mg/L	250	230	5.68	1.62	5.31	1.53	1.12	1.88	1.83	4.57	2.18	3.67
Fluoride	mg/L	4		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.81	0.5U
Nitrate/Nitrite Nitrogen	mg/L (as N)	10		0.2 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0125	0.01 U
Silica	mg/L			20.2	20.8	19.8	20.8	22	23.2	16.2	21.2	10.8	19.8
Total Cyanide	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
Weak Dissociable Cyanide	mg/L	0.2	5.2	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
Geochemical Attenuation Parameters													
Ferric Iron	mg/l				0.26						0.52		2.25
Ferrous Iron	mg/l				0.97						1.07		0.25 U
Nitrate Nitrogen	mg/L (as N)				0.01 U						0.021		0.01 U
Nitrite Nitrogen	mg/L (as N)				0.01 U						0.01 U		0.01 U
Ammonia Nitrogen	mg/L (as N)				0.926						0.539		0.755
Kjedahl Nitrogen	mg/L (as N)				1.0 U						1.0 U		1.0 U
Sulfide	mg/l				7.6 J						8.4 J		5.6 J
Dissolved Methane	mg/l				1.83						0.845		1.17
Dissolved Ethene	mg/l				0.01 U						0.01 U		0.01 U
Dissolved Ethane	mg/l				0.01 U						0.01 U		0.01 U
Dissolved Hydrogen	n-Molar				16						80		61

APPENDIX A
LMW-11 BOREHOLE LOG AND WELL
INSTALLATION DIAGRAM

RECORD OF BOREHOLE LMW-11

SHEET 1 of 9

PROJECT: Palmer/Landsburg Mine DRILLING METHOD: Air Rotary
 PROJECT NUMBER: 923-1000-002.R280 DRILLING DATE: 8/24/05
 LOCATION: Landsburg Mine, Ravensdale, WA DRILL RIG: Ingersoll Rand T3W

DATUM:
 AZIMUTH: N/A
 COORDINATES: not surveyed

ELEVATION: 798
 INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE				SAMPLES				PENETRATION RESISTANCE BLOWS / ft ■				NOTES WATER LEVELS GRAPHIC	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	NUMBER	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N	REC / ATT	WATER CONTENT (PERCENT)				
											10	20	30		40
0		0.0 - 0.3 QUARRY SPALLS (1 to 3 inch diameter)	SM		0.3 796.0	G-1	GRAB								8 in. diameter monument pipe, 2.3 ft stickup, metal cap Pipe Clamp at 2.3 ft.
0.3 - 2.0		Loose to compact, brown, silty fine SAND, trace to little medium to coarse sand and gravel, trace cobbles, little to some organics, dry (SM) (TOPSOIL)			2.0	G-2	GRAB								concrete 0 to 9.5 ft 4-inch PVC well pipe
2.0 - 27.0		Dense, tan, silty gravelly SAND to silty sandy GRAVEL, trace cobbles and boulders, subangular to subrounded, faceted, scattered gravel lenses, damp. (SM) (GLACIAL TILL)				G-3	GRAB								Centralizer
		Refusal on 3-foot diameter boulder. Move hole 3 feet south and 3 feet west.	SM			G-4	GRAB								Cement Grout 9.5 to 33 ft
		becomes gray.				G-5	GRAB								Transition from a 12 in. hole to a 9 in. hole
		27.0 - 119.0 Fresh, thinly to thickly laminated, brownish gray (5YR 6/1) and light gray (N7), fine to medium grained, weak (R2) to medium strong (R4), interbedded, SILTSTONE, silty fine SANDSTONE, fine sandy SILTSTONE, (Puget Group), scattered thin coal laminae, beds dipping at approximately 70 degrees to west.			771.0 27.0	G-6	GRAB								Bentonite Chips 33 to 43 ft
						G-7	GRAB								"Pure Gold" Bentonite Grout 43 to 623.5 ft
						G-8	GRAB								
						G-9	GRAB								
						G-10	GRAB								

air rotary

Log continued on next page

DRILLING CONTRACTOR: Cascade Drilling Inc.
 DRILLER: Todd/Jarod

LOGGED: JdLC / AMJ
 CHECKED:
 DATE:



BOREHOLE RECORD 9231000200R280_LMW-11.GPJ_GLDR_WA.GDT 3/6/06

RECORD OF BOREHOLE LMW-11

SHEET 2 of 9

PROJECT: Palmer/Landsburg Mine DRILLING METHOD: Air Rotary
 PROJECT NUMBER: 923-1000-002.R280 DRILLING DATE: 8/24/05
 LOCATION: Landsburg Mine, Ravensdale, WA DRILL RIG: Ingersoll Rand T3W

DATUM:
 AZIMUTH: N/A
 COORDINATES: not surveyed

ELEVATION: 798
 INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE				SAMPLES				PENETRATION RESISTANCE BLOWS / ft ■				NOTES WATER LEVELS GRAPHIC		
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	NUMBER	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N	REC / ATT	WATER CONTENT (PERCENT)					
					DEPTH (ft)						10	20	30		40	
80		27.0 - 119.0 Fresh, thinly to thickly laminated, brownish gray (5YR 6/1) and light gray (N7), fine to medium grained, weak (R2) to medium strong (R4), interbedded, SILTSTONE, silty fine SANDSTONE, fine sandy SILTSTONE, (Puget Group), scattered thin coal laminae, beds dipping at approximately 70 degrees to west. (Continued)														
85						G-11	GRAB									
90																
95																
100																
105																
110																
115																
120	air rotary	119.0 - 138.0 Fresh, thinly laminated, light brown gray (5YR 6/1) to pinkish gray, interbedded, fine to medium grained, very weak (R1) to weak (R2), silty fine to medium SANDSTONE, and, fine sandy SILTSTONE, with scattered thin laminae of coal (Puget Group).	679.0	119.0		G-14	GRAB								measured overnight during drilling 8/31/05 9/1/05	
125																"Pure Gold" Bentonite Grout
130																
135																
140		138.0 - 172.0 Fresh, laminated, light brownish gray (5YR 6/1) and light gray, fine grained, medium strong (R3), silty fine SANDSTONE (Puget Group).	660.0	138.0		G-16	GRAB								measured overnight during drilling 9/2/05 9/13/05 9/6/05	
145																
150		becomes very light gray (N8)														
155						G-17	GRAB								measured post drilling 9/19/05, 9/20/05, 9/21/05	
160		Log continued on next page														

BOREHOLE RECORD 9231000200R280 LMW-11.GPJ_GLDR_WA_GDT_3/6/06

DRILLING CONTRACTOR: Cascade Drilling Inc.
 DRILLER: Todd/Jarod

LOGGED: JdLC / AMJ
 CHECKED:
 DATE:



RECORD OF BOREHOLE LMW-11

SHEET 3 of 9

PROJECT: Palmer/Landsburg Mine DRILLING METHOD: Air Rotary
 PROJECT NUMBER: 923-1000-002.R280 DRILLING DATE: 8/24/05
 LOCATION: Landsburg Mine, Ravensdale, WA DRILL RIG: Ingersoll Rand T3W

DATUM: AZIMUTH: N/A
 COORDINATES: not surveyed

ELEVATION: 798
 INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE				SAMPLES				PENETRATION RESISTANCE BLOWS / ft ■				NOTES WATER LEVELS GRAPHIC			
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	NUMBER	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N	REC / ATT	WATER CONTENT (PERCENT)						
					DEPTH (ft)						10	20	30		40		
160	air rotary	138.0 - 172.0 Fresh, laminated, light brownish gray (SYR 6/1) and light gray, fine grained, medium strong (R3), silty fine SANDSTONE (Puget Group). (Continued)	[Graphic Log Pattern]	[Graphic Log Pattern]													
165		becomes light brownish gray															
170																	
172.0 - 258.0		172.0 - 258.0 Fresh, thinly laminated, light brownish gray (SYR 6/1) and light gray, fine grained, medium strong (R3), alternating fine sandy SILTSTONE and silty fine SANDSTONE (PUGET GROUP).					626.0 172.0	G-19	GRAB								
175																	
180																	
185		becomes very light gray, silty fine to medium SANDSTONE						G-20	GRAB								"Pure Gold" Bentonite Grout 43 to 623.5 ft
190																	
195		becomes light brownish gray, SILTSTONE															
200		becomes interbedded SILTSTONE AND SANDSTONE						G-21	GRAB								
205	becomes very light gray, silty fine to medium SANDSTONE																
210	becomes light brownish gray, SILTSTONE				G-22	GRAB											
215																	
220	becomes very light gray, silty fine to medium SANDSTONE				G-23	GRAB											
225																	
230	becomes interbedded silty fine SANDSTONE and fine sandy SILTSTONE				G-25	GRAB											
235																	
240					G-24	GRAB											

Log continued on next page

DRILLING CONTRACTOR: Cascade Drilling Inc.
 DRILLER: Todd/Jarod

LOGGED: JdLC / AMJ
 CHECKED:
 DATE:



BOREHOLE RECORD 9231000200R280_LMW-11.GPJ_GLDL_WA_GDT_3/16/06

RECORD OF BOREHOLE LMW-11

SHEET 4 of 9

PROJECT: Palmer/Landsburg Mine DRILLING METHOD: Air Rotary
 PROJECT NUMBER: 923-1000-002.R280 DRILLING DATE: 8/24/05
 LOCATION: Landsburg Mine, Ravensdale, WA DRILL RIG: Ingersoll Rand T3W

DATUM:
 AZIMUTH: N/A
 COORDINATES: not surveyed

ELEVATION: 798
 INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE			SAMPLES				PENETRATION RESISTANCE BLOWS / ft ■				NOTES		
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	NUMBER	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N	REC / ATT	WATER CONTENT (PERCENT)				GRAPHIC
											WATER CONTENT (PERCENT)				
240 245 250 255		172.0 - 258.0 Fresh, thinly laminated, light brownish gray (5YR 6/1) and and light gray, fine grained, medium strong (R3), alternating fine sandy SILTSTONE and silty fine SANDSTONE (PUGET GROUP). (Continued) becomes very light gray, silty fine to medium SANDSTONE			540.0 258.0										
260 265 270 275 280 285 290 295 300 305 310	air rotary	258.0 - 311.0 Fresh, laminated, very light gray and light brownish gray, fine grained, strong (R4), interbedded silty fine to medium SANDSTONE and fine sandy SILTSTONE (Puget Group). becomes light brownish gray, SILTSTONE, trace fine organics (peat/coal) becomes very light gray, strong (R4), silty fine to medium SANDSTONE becomes medium strong (R3) becomes strong (R4) harder drilling, coarse cuttings becomes weak (R2), crumbly SANDSTONE becomes strong (R4), SILTSTONE				G-26 G-27 G-28 G-29 G-30	GRAB GRAB GRAB GRAB GRAB								"Pure Gold" Bentonite Grout 43 to 623.5 ft
315 320		311.0 - 380.0 Fresh, laminated, light olive gray and brownish gray, fine grained, medium strong (R2), interbedded, fine sandy SILTSTONE and silty fine to medium SANDSTONE (Puget Group), trace thin laminae of shale and coal. trace fine brown organics (peat) within SILTSTONE Log continued on next page			487.0 311.0										

BOREHOLE RECORD 9231000200R280_LMW-11.GPJ_GLDR_WA.GDT 3/6/06

DRILLING CONTRACTOR: Cascade Drilling Inc.
 DRILLER: Todd/Jarod

LOGGED: JdLC / AMJ
 CHECKED:
 DATE:



RECORD OF BOREHOLE LMW-11

SHEET 5 of 9

PROJECT: Palmer/Landsburg Mine DRILLING METHOD: Air Rotary
 PROJECT NUMBER: 923-1000-002.R280 DRILLING DATE: 8/24/05
 LOCATION: Landsburg Mine, Ravensdale, WASH STATE DRILL RIG: Ingersoll Rand T3W

DATUM:
 AZIMUTH: N/A
 COORDINATES: not surveyed

ELEVATION: 798
 INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE			SAMPLES				PENETRATION RESISTANCE BLOWS / ft ■				NOTES WATER LEVELS				
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	NUMBER	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N	REC / ATT	WATER CONTENT (PERCENT)						
					DEPTH (ft)						10	20	30	40	W_p	w	w_L
320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400	air rotary	311.0 - 380.0 Fresh, laminated, light olive gray and brownish gray, fine grained, medium strong (R2), interbedded, fine sandy SILTSTONE and silty fine to medium SANDSTONE (Puget Group), trace thin laminae of shale and coal. (Continued) becomes very light gray, silty fine to medium SANDSTONE with trace very thin coal laminae becomes interbedded SILTSTONE and SANDSTONE with trace coal laminae becomes silty fine to medium SANDSTONE, medium strong (R3), trace coal laminae becomes brownish gray, laminated, SILTSTONE becomes interbedded SILTSTONE and SANDSTONE, fractured, minor water produced from formation			418.0 380.0	G-32 G-33 G-34 G-35 G-36 G-37 G-38	GRAB GRAB GRAB GRAB GRAB GRAB GRAB										*Pure Gold* Bentonite Grout 43 to 623.5 ft
		380.0 - 391.0 Fresh, crudely laminated, very light gray to pale yellowish brown (10YR 6/2), strong (R4), silty fine SANDSTONE (Puget Group), trace coal laminae, trace siltstone laminae, healed 1/16-inch wide joints with CaCO3 infilling.		407.0 391.0	G-39	GRAB											
		391.0 - 421.0 Fresh, laminated, very light gray, fine grained, medium strong (R3), silty fine to medium SANDSTONE (Puget Group), trace siltstone laminae, mild reaction with HCl.			G-40	GRAB											

BOREHOLE RECORD 9231000200R280 LMW-11.GPJ GLDR WA.GDT 3/16/06

Log continued on next page

DRILLING CONTRACTOR: Cascade Drilling Inc.
 DRILLER: Todd/Jarod

LOGGED: JdLC / AMJ
 CHECKED:
 DATE:



RECORD OF BOREHOLE LMW-11

SHEET 6 of 9

PROJECT: Palmer/Landsburg Mine DRILLING METHOD: Air Rotary
 PROJECT NUMBER: 923-1000-002.R280 DRILLING DATE: 8/24/05
 LOCATION: Landsburg Mine, Ravensdale, WA DRILL RIG: Ingersoll Rand T3W

DATUM: ELEVATION: 798
 AZIMUTH: N/A INCLINATION: -90
 COORDINATES: not surveyed

DEPTH (ft)	BORING METHOD	SOIL PROFILE				SAMPLES				PENETRATION RESISTANCE BLOWS / ft ■				NOTES WATER LEVELS GRAPHIC		
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	NUMBER	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N	REC / ATT	WATER CONTENT (PERCENT)					
					DEPTH (ft)						10	20	30		40	W _p
400	air rotary	391.0 - 421.0 Fresh, laminated, very light gray, fine grained, medium strong (R3), silty fine to medium SANDSTONE (Puget Group), trace siltstone laminae, mild reaction with HCl. <i>(Continued)</i>														
405																
410						G-41	GRAB									
415																
420																
425			421.0 - 500.0 Fresh, laminated, light olive gray and brownish gray, fine grained, weak (R2) to medium strong (R3), interbedded, fine sandy SILTSTONE and silty fine to medium SANDSTONE (Puget Group).													
430			becomes weak (R2), silty fine SANDSTONE													
435			becomes SILTSTONE													
440			becomes weak (R2), interbedded silty fine SANDSTONE and fine sandy SILTSTONE													
445			becomes medium strong (R3), SILTSTONE													
450		becomes weak (R2), silty fine to medium SANDSTONE with scattered SILTSTONE beds.														
455																
460																
465																
470		becomes medium strong (R3), SANDSTONE with trace very thin coal laminae														
475		becomes weak (R1), SANDSTONE														
480		Log continued on next page														

"Pure Gold"
Bentonite
Grout 43 to
623.5 ft

BOREHOLE RECORD 9231000200R280 LMW-11.GPJ GLDR_WA_GDT 3/6/06

DRILLING CONTRACTOR: Cascade Drilling Inc.
 DRILLER: Todd/Jarod

LOGGED: JdLC / AMJ
 CHECKED:
 DATE:



RECORD OF BOREHOLE LMW-11

SHEET 7 of 9

PROJECT: Palmer/Landsburg Mine DRILLING METHOD: Air Rotary
 PROJECT NUMBER: 923-1000-002.R280 DRILLING DATE: 8/24/05
 LOCATION: Landsburg Mine, Ravensdale, WA DRILL RIG: Ingersoll Rand T3W

DATUM:
 AZIMUTH: N/A
 COORDINATES: not surveyed

ELEVATION: 798
 INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE			SAMPLES				PENETRATION RESISTANCE BLOWS / ft ■				NOTES WATER LEVELS GRAPHIC					
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	NUMBER	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N	REC / ATT	WATER CONTENT (PERCENT)							
											10	20		30	40			
480	air rotary	421.0 - 500.0 Fresh, laminated, light olive gray and brownish gray, fine grained, weak (R2) to medium strong (R3), interbedded, fine sandy SILTSTONE and silty fine to medium SANDSTONE (Puget Group). (Continued)	ML	[Graphic Log Pattern]	298.0	G-47	GRAB											
485																		
490		becomes interbedded SILTSTONE and SANDSTONE																
495		becomes weak (R2), silty fine to medium SANDSTONE with scattered thin coal laminae																
500		500.0 - 520.0 Fresh, laminated, light olive gray, brownish gray (5YR 4/1), and pale yellowish brown (10YR 6/2), fine grained, weak (R2), interbedded, silty fine to medium SANDSTONE and coaly SILTSTONE and coaly SHALE (Puget Group).			ML	[Graphic Log Pattern]	278.0	G-49	GRAB									
505																		
510		hole producing minor water																
515																		
520		520.0 - 532.0 Fresh, laminated, brownish gray (5YR 4/1) and pale yellowish brown (10 YR 6/2), weak (R2) to medium strong (R3), interbedded, SILTSTONE, and silty fine SANDSTONE (Puget Group).			ML	[Graphic Log Pattern]	266.0	G-51	GRAB									
525																		
530	hole producing minor water																	
535	532.0 - 585.0 Fresh, laminated, brownish gray, fine grained, medium strong (R3), silty fine to SANDSTONE (Puget Group).	ML	[Graphic Log Pattern]	532.0	G-53	GRAB												
540																		
545																		
550																		
555																		
560																		

"Pure Gold" Bentonite Grout 43 to 623.5 ft

Log continued on next page

DRILLING CONTRACTOR: Cascade Drilling Inc.
 DRILLER: Todd/Jarod

LOGGED: JdLC / AMJ
 CHECKED:
 DATE:



BOREHOLE RECORD 9231000200R280_LMW-11.GPJ GLDR_WA.GDT 3/6/06

RECORD OF BOREHOLE LMW-11

SHEET 8 of 9

PROJECT: Palmer/Landsburg Mine DRILLING METHOD: Air Rotary
 PROJECT NUMBER: 923-1000-002.R280 DRILLING DATE: 8/24/05
 LOCATION: Landsburg Mine, Ravensdale, WA DRILL RIG: Ingersoll Rand T3W

DATUM:
 AZIMUTH: N/A
 COORDINATES: not surveyed

ELEVATION: 798
 INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE				SAMPLES				PENETRATION RESISTANCE BLOWS / ft ■				NOTES WATER LEVELS				
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	NUMBER	TYPE	BLOWS per 6 in <small>140 lb hammer 30 inch drop</small>	N	REC / ATT	WATER CONTENT (PERCENT)				GRAPHIC			
					DEPTH (ft)						W_p ————— W_L <small>10 20 30 40</small>							
560	air rotary	532.0 - 585.0 Fresh, laminated, brownish gray, fine grained, medium strong (R3), silty fine to SANDSTONE (Puget Group). <i>(Continued)</i>	SP															
565		silty fine SANDSTONE grading in and out of sandy SILTSTONE. fractured/jointed, coarse cuttings, minor water produced from formation			G-56	GRAB												
570																		
575																		
580																		
585		fractured/jointed, coarse cuttings, minor water produced from formation 585.0 - 645.0 Fresh, laminated, brownish gray, fine grained, weak (R2) to medium strong (R3), interbedded, fine sandy SILTSTONE and silty fine to medium SANDSTONE (Puget Group).			213.0 585.0	G-57	GRAB											
590																		
595																		
600																		
605																		
610																		
615		fractured/jointed, coarse cuttings, minor water produced from formation																
620																		
625																		
630																		
635																		
640		Log continued on next page																

"Pure Gold" Bentonite Grout 43 to 623.5 ft

Transition from a 9 in. hole to a 8 in. hole

Cement Grout 623.5 to 649 ft

BOREHOLE RECORD 9231000200R280_LMW-11.GPJ_GLDR_WA.GDT 3/6/06

DRILLING CONTRACTOR: Cascade Drilling Inc.
 DRILLER: Todd/Jarod

LOGGED: JdLC / AMJ
 CHECKED:
 DATE:



RECORD OF BOREHOLE LMW-11

SHEET 9 of 9

PROJECT: Palmer/Landsburg Mine DRILLING METHOD: Air Rotary
 PROJECT NUMBER: 923-1000-002.R280 DRILLING DATE: 8/24/05
 LOCATION: Landsburg Mine, Ravensdale, WA DRILL RIG: Ingersoll Rand T3W

DATUM:
 AZIMUTH: N/A
 COORDINATES: not surveyed

ELEVATION: 798
 INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE				SAMPLES				PENETRATION RESISTANCE BLOWS / ft ■				NOTES WATER LEVELS GRAPHIC		
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	NUMBER	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N	REC / ATT	WATER CONTENT (PERCENT)					
					DEPTH (ft)						10	20	30		40	
640	air rotary				153.0											
645		645.0 - 657.0 Fresh, laminated, brownish gray, fine grained, weak (R2) to medium strong (R3), silty fine to SANDSTONE (Puget Group).			645.0	G-64	GRAB									
650																10/20 silica sand used for sounding hole
655		657.0 - 700.0 Fresh, laminated, brownish gray to dark gray, fine grained, weak (R2) to medium strong (R3), interbedded, silty fine to SANDSTONE and fine sandy SILTSTONE (Puget Group), scattered thin coal laminae. metal shavings in cuttings			141.0	G-65	GRAB									Bentonite Pellets 651 to 665 ft
660					657.0											
665		increase in water produced from formation scattered wood fragments, some painted				G-66	GRAB									10/20 silica sand used for sounding hole
670						G-67	GRAB									
675						G-68	GRAB									
680		scattered wood fragments (to 1/2-inch diameter), and trace metal shavings 680 to 690 feet-water produced from formation				G-69	GRAB									Bentonite Pellets 667 to 688 ft Centralizer
685						G-70	GRAB									
690	metal shavings in cuttings becomes brownish gray to dark gray to light gray				G-71	GRAB									20/40 Sand (Colorado Silica) 688 to 690 ft Centralizer 10/20 Sand Pack (Colorado Silica) 690 to 707 ft	
695																
700		700.0 - 707.0 Fresh, laminated, black, very fine grained, very weak (R1), bituminous? COAL (Puget Group).			98.0											
705		hole producing very large volumes of water (>400 gallons/minute), returned drill water becomes black, cuttings are coarse chunks of angular COAL and brownish gray silty fine SANDSTONE and SILTSTONE. This is a rubblely zone (according to the driller) that represents the collapsed mine. Boring completed at 707.0 ft.			700.0	G-72	GRAB								Stainless steel screen, double walled, pre-packed sand pack Centralizer	
710					91.0	G-73	GRAB								S.S. ring bit left in hole	
715					707.0											
720																

BOREHOLE RECORD 9231000200R280 LMW-11.GPJ GLDR_WA.GDT 3/6/06

DRILLING CONTRACTOR: Cascade Drilling Inc.
 DRILLER: Todd/Jarod

LOGGED: JdLC / AMJ
 CHECKED:
 DATE:



APPENDIX B
LABORATORY ANALYTICAL REPORTS
AND VALIDATION SUMMARIES



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
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 A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

23 March 2006

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

Enclosed are the results of analyses for samples received by the laboratory on 02/20/06 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kortland Orr
PM



Revised Chain of Custody

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **B6B0431**

NCA CLIENT: Goldar Associates		INVOICE TO:		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 3 <input type="checkbox"/> 1 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <1 Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 1 <input type="checkbox"/> 3 <input type="checkbox"/> 1 <1 OTHER Specify:																	
REPORT TO: Doug Morrell		P.O. NUMBER:																			
ADDRESS: 18300 NE Union Hill Rd, 200 Redmond WA 98052																					
PHONE: 425-683-0777 FAX: 425-682-5498																					
PROJECT NAME: Landsburg Mine		PRESERVATIVE																			
PROJECT NUMBER: 923-1000-002-R273		REQUESTED ANALYSES																			
SAMPLED BY: Jon Young																					
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TAML	VOCs	SVOCs	TH/HEP	REB-2 Petroleum	Met Chrom	Cyanide	Nitrokinoline	Formaldehyde	Ammonia	Hexachloro N	Sulfate	Sulfide	Fluoride	Phosphate	Hydrogen	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 LMW-6-0206	2/20/06 @ 1045	X	X	X	X	X	X	X										W	15		-01
2 LMW-7-0206	1145	X	X	X	X	X	X	X											15		-02
3 LMW-9-0206	1145	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		23		-03
4 LMW-10-0206	1245	X	X	X	X	X	X	X											15		-04
5																					-
6 LMW-9-0206	2/20/06 @ 1530															X		G	1		-05
7 Trip Blank	2/20/06 @ 1200																				-06
8																					
9																					
10																					
RELEASED BY: [Signature]		DATE: 2/20/06		RECEIVED BY: [Signature]		DATE: 2/20/06															
PRINT NAME: Jon Young		FIRM: Goldar		PRINT NAME: FRANK TONY		FIRM: NCA															
RELEASED BY:		DATE:		RECEIVED BY:		DATE:															
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:															
ADDITIONAL REMARKS:																					
COC REV 09/04												TEMP: 9.5 PAGE OF 7/0									

(87)



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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 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, 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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-6-0206	B6B0431-01	Water	02/20/06 10:15	02/20/06 17:20
LMW-7-0206	B6B0431-02	Water	02/20/06 11:45	02/20/06 17:20
LMW-9-0206	B6B0431-03	Water	02/20/06 14:45	02/20/06 17:20
LMW-10-0206	B6B0431-04	Water	02/20/06 12:45	02/20/06 17:20
LMW-9-0206	B6B0431-05	Air	02/20/06 15:30	02/20/06 17:20
Trip Blank	B6B0431-06	Water	02/20/06 12:00	02/20/06 17:20

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.

Kortland Orr, PM

North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 1 of 69



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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 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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

LMW-6-0206 (B6B0431-01) Water **Sampled: 02/20/06 10:15** **Received: 02/20/06 17:20**

Gx Range Hydrocarbons	ND	0.236	mg/l	1	6B21023	02/21/06	02/23/06	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Diesel Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Insulating Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Heavy Fuel Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Lube Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Surrogate: 2-FBP	84.7 %	50-150			"	"	"	"	"
Surrogate: Octacosane	102 %	50-150			"	"	"	"	"

LMW-7-0206 (B6B0431-02) Water **Sampled: 02/20/06 11:45** **Received: 02/20/06 17:20**

Gx Range Hydrocarbons	ND	0.236	mg/l	1	6B21023	02/21/06	02/23/06	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Diesel Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Insulating Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Heavy Fuel Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Lube Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Surrogate: 2-FBP	83.9 %	50-150			"	"	"	"	"
Surrogate: Octacosane	104 %	50-150			"	"	"	"	"

LMW-9-0206 (B6B0431-03) Water **Sampled: 02/20/06 14:45** **Received: 02/20/06 17:20**

Gx Range Hydrocarbons	ND	0.236	mg/l	1	6B21023	02/21/06	02/23/06	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Diesel Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Insulating Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Heavy Fuel Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Lube Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Surrogate: 2-FBP	86.9 %	50-150			"	"	"	"	"
Surrogate: Octacosane	103 %	50-150			"	"	"	"	"

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-10-0206 (B6B0431-04) Water Sampled: 02/20/06 12:45 Received: 02/20/06 17:20									
Gx Range Hydrocarbons	ND	0.236	mg/l	1	6B21023	02/21/06	02/23/06	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Diesel Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Insulating Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Heavy Fuel Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Lube Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
<i>Surrogate: 2-FBP</i>	86.4 %	50-150			"	"	"	"	"
<i>Surrogate: Octacosane</i>	103 %	50-150			"	"	"	"	"

North Creek Analytical - Bothell

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

Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Total 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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LMW-6-0206 (B6B0431-01) Water Sampled: 02/20/06 10:15 Received: 02/20/06 17:20

Silver	ND	0.00100	mg/l	1	6B21030	02/21/06	02/22/06	EPA 6020	
Aluminum	ND	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Arsenic	ND	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Barium	0.109	0.0100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Calcium	24.5	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Cadmium	ND	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Cobalt	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	2.07	0.150	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Mercury	ND	0.000200	"	"	6B22060	02/22/06	02/23/06	EPA 7470A	
Potassium	ND	2.00	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Magnesium	12.7	0.500	"	"	"	"	"	"	
Manganese	0.0344	0.0100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Sodium	6.86	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Nickel	ND	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Vanadium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20

Silver	ND	0.00100	mg/l	1	6B21030	02/21/06	02/22/06	EPA 6020	
Aluminum	ND	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Arsenic	0.00196	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Calcium	54.0	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Cadmium	ND	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Cobalt	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	0.987	0.150	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Mercury	ND	0.000200	"	"	6B22060	02/22/06	02/23/06	EPA 7470A	
Potassium	3.14	2.00	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Magnesium	26.2	0.500	"	"	"	"	"	"	

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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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20									
Manganese	0.149	0.0100	mg/l	1	6B21030	02/21/06	02/22/06	EPA 6020	
Sodium	48.3	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Nickel	0.00147	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Vanadium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	
LMW-7-0206 (B6B0431-02RE1) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20									
Barium	0.493	0.0200	mg/l	2	6B21030	02/21/06	02/22/06	EPA 6020	
LMW-9-0206 (B6B0431-03) Water Sampled: 02/20/06 14:45 Received: 02/20/06 17:20									
Silver	0.00540	0.00100	mg/l	1	6B21030	02/21/06	02/22/06	EPA 6020	
Aluminum	ND	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Arsenic	ND	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Barium	0.326	0.0100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Calcium	80.5	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Cadmium	ND	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Cobalt	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	1.59	0.150	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Mercury	ND	0.000200	"	"	6B22060	02/22/06	02/23/06	EPA 7470A	
Potassium	4.71	2.00	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Magnesium	45.9	0.500	"	"	"	"	"	"	
Manganese	0.182	0.0100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Sodium	17.7	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Nickel	0.00158	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Vanadium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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

Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-10-0206 (B6B0431-04) Water Sampled: 02/20/06 12:45 Received: 02/20/06 17:20									
Silver	ND	0.00100	mg/l	1	6B21030	02/21/06	02/22/06	EPA 6020	
Aluminum	ND	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Arsenic	ND	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Barium	0.0349	0.0100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Calcium	6.30	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Cadmium	ND	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Cobalt	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Mercury	ND	0.000200	"	"	6B22060	02/22/06	02/23/06	EPA 7470A	
Potassium	ND	2.00	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Magnesium	2.71	0.500	"	"	"	"	"	"	
Manganese	ND	0.0100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Sodium	72.3	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Nickel	ND	0.00100	"	"	6B21030	02/21/06	02/22/06	EPA 6020	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Vanadium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Organochlorine Pesticides by EPA Method 8081A
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW-6-0206 (B6B0431-01) Water Sampled: 02/20/06 10:15 Received: 02/20/06 17:20

Aldrin	ND	0.0472	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
alpha-BHC	ND	0.0377	"	"	"	"	"	"	
beta-BHC	ND	0.0377	"	"	"	"	"	"	
delta-BHC	ND	0.0472	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0377	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0377	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0377	"	"	"	"	"	"	
4,4'-DDD	ND	0.0377	"	"	"	"	"	"	
4,4'-DDE	ND	0.0755	"	"	"	"	"	"	
4,4'-DDT	ND	0.0755	"	"	"	"	"	"	
Dieldrin	ND	0.0755	"	"	"	"	"	"	
Endosulfan I	ND	0.0189	"	"	"	"	"	"	
Endosulfan II	ND	0.0755	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0943	"	"	"	"	"	"	
Endrin	ND	0.0755	"	"	"	"	"	"	
Endrin aldehyde	ND	0.151	"	"	"	"	"	"	
Endrin ketone	ND	0.0755	"	"	"	"	"	"	
Heptachlor	ND	0.0472	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0377	"	"	"	"	"	"	
Methoxychlor	ND	0.472	"	"	"	"	"	"	
Toxaphene	ND	1.89	"	"	"	"	"	"	
Surrogate: TCX	93.1 %	24-143			"	"	"	"	
Surrogate: Decachlorobiphenyl	68.3 %	10-145			"	"	"	"	

LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20

Aldrin	ND	0.0472	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
alpha-BHC	ND	0.0377	"	"	"	"	"	"	
beta-BHC	ND	0.0377	"	"	"	"	"	"	
delta-BHC	ND	0.0472	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0377	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0377	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0377	"	"	"	"	"	"	
4,4'-DDD	ND	0.0377	"	"	"	"	"	"	
4,4'-DDE	ND	0.0755	"	"	"	"	"	"	
4,4'-DDT	ND	0.0755	"	"	"	"	"	"	
Dieldrin	ND	0.0755	"	"	"	"	"	"	
Endosulfan I	ND	0.0189	"	"	"	"	"	"	
Endosulfan II	ND	0.0755	"	"	"	"	"	"	

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Organochlorine Pesticides by EPA Method 8081A
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20										
Endosulfan sulfate	ND	0.0943		ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
Endrin	ND	0.0755		"	"	"	"	"	"	
Endrin aldehyde	ND	0.151		"	"	"	"	"	"	
Endrin ketone	ND	0.0755		"	"	"	"	"	"	
Heptachlor	ND	0.0472		"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0377		"	"	"	"	"	"	
Methoxychlor	ND	0.472		"	"	"	"	"	"	
Toxaphene	ND	1.89		"	"	"	"	"	"	
<i>Surrogate: TCX</i>	81.0 %	24-143				"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>	67.2 %	10-145				"	"	"	"	

LMW-9-0206 (B6B0431-03) Water Sampled: 02/20/06 14:45 Received: 02/20/06 17:20										
Aldrin	ND	0.0472		ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
alpha-BHC	ND	0.0377		"	"	"	"	"	"	
beta-BHC	ND	0.0377		"	"	"	"	"	"	
delta-BHC	ND	0.0472		"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0377		"	"	"	"	"	"	
alpha-Chlordane	ND	0.0377		"	"	"	"	"	"	
gamma-Chlordane	ND	0.0377		"	"	"	"	"	"	
4,4'-DDD	ND	0.0377		"	"	"	"	"	"	
4,4'-DDE	ND	0.0755		"	"	"	"	"	"	
4,4'-DDT	ND	0.0755		"	"	"	"	"	"	
Dieldrin	ND	0.0755		"	"	"	"	"	"	
Endosulfan I	ND	0.0189		"	"	"	"	"	"	
Endosulfan II	ND	0.0755		"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0943		"	"	"	"	"	"	
Endrin	ND	0.0755		"	"	"	"	"	"	
Endrin aldehyde	ND	0.151		"	"	"	"	"	"	
Endrin ketone	ND	0.0755		"	"	"	"	"	"	
Heptachlor	ND	0.0472		"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0377		"	"	"	"	"	"	
Methoxychlor	ND	0.472		"	"	"	"	"	"	
Toxaphene	ND	1.89		"	"	"	"	"	"	
<i>Surrogate: TCX</i>	84.1 %	24-143				"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>	69.3 %	10-145				"	"	"	"	

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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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Organochlorine Pesticides by EPA Method 8081A
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-10-0206 (B6B0431-04) Water Sampled: 02/20/06 12:45 Received: 02/20/06 17:20									
Aldrin	ND	0.0472	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
alpha-BHC	ND	0.0377	"	"	"	"	"	"	
beta-BHC	ND	0.0377	"	"	"	"	"	"	
delta-BHC	ND	0.0472	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0377	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0377	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0377	"	"	"	"	"	"	
4,4'-DDD	ND	0.0377	"	"	"	"	"	"	
4,4'-DDE	ND	0.0755	"	"	"	"	"	"	
4,4'-DDT	ND	0.0755	"	"	"	"	"	"	
Dieldrin	ND	0.0755	"	"	"	"	"	"	
Endosulfan I	ND	0.0189	"	"	"	"	"	"	
Endosulfan II	ND	0.0755	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0943	"	"	"	"	"	"	
Endrin	ND	0.0755	"	"	"	"	"	"	
Endrin aldehyde	ND	0.151	"	"	"	"	"	"	
Endrin ketone	ND	0.0755	"	"	"	"	"	"	
Heptachlor	ND	0.0472	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0377	"	"	"	"	"	"	
Methoxychlor	ND	0.472	"	"	"	"	"	"	
Toxaphene	ND	1.89	"	"	"	"	"	"	
Surrogate: TCX	77.2 %	24-143			"	"	"	"	
Surrogate: Decachlorobiphenyl	57.1 %	10-145			"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Polychlorinated Biphenyls by EPA Method 8082
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-6-0206 (B6B0431-01) Water Sampled: 02/20/06 10:15 Received: 02/20/06 17:20									
Aroclor 1016 [2C]	ND	0.472	ug/l	1	6B22011	02/22/06	02/28/06	EPA 8082	
Aroclor 1221 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1232 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1242 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1248 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1254 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1260 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1262 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1268 [2C]	ND	0.472	"	"	"	"	"	"	
Surrogate: TCX [2C]	88.4 %	25-131			"	"	"	"	
Surrogate: Decachlorobiphenyl [2C]	67.7 %	22-134			"	"	"	"	
LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20									
Aroclor 1016 [2C]	ND	0.472	ug/l	1	6B22011	02/22/06	02/28/06	EPA 8082	
Aroclor 1221 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1232 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1242 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1248 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1254 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1260 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1262 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1268 [2C]	ND	0.472	"	"	"	"	"	"	
Surrogate: TCX [2C]	81.0 %	25-131			"	"	"	"	
Surrogate: Decachlorobiphenyl [2C]	72.5 %	22-134			"	"	"	"	

North Creek Analytical - Bothell

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Polychlorinated Biphenyls by EPA Method 8082
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW-9-0206 (B6B0431-03) Water **Sampled: 02/20/06 14:45** **Received: 02/20/06 17:20**

Aroclor 1016 [2C]	ND	0.472	ug/l	1	6B22011	02/22/06	02/28/06	EPA 8082	
Aroclor 1221 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1232 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1242 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1248 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1254 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1260 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1262 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1268 [2C]	ND	0.472	"	"	"	"	"	"	
Surrogate: TCX [2C]	85.2 %	25-131			"	"	"	"	
Surrogate: Decachlorobiphenyl [2C]	68.3 %	22-134			"	"	"	"	

LMW-10-0206 (B6B0431-04) Water **Sampled: 02/20/06 12:45** **Received: 02/20/06 17:20**

Aroclor 1016 [2C]	ND	0.472	ug/l	1	6B22011	02/22/06	02/28/06	EPA 8082	
Aroclor 1221 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1232 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1242 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1248 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1254 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1260 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1262 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1268 [2C]	ND	0.472	"	"	"	"	"	"	
Surrogate: TCX [2C]	89.9 %	25-131			"	"	"	"	
Surrogate: Decachlorobiphenyl [2C]	75.7 %	22-134			"	"	"	"	

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Golder Associates Inc.
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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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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LMW-6-0206 (B6B0431-01) Water Sampled: 02/20/06 10:15 Received: 02/20/06 17:20

Acetone	ND	10.0	ug/l	1	6B21042	02/21/06	02/21/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Golder Associates Inc.
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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-6-0206 (B6B0431-01) Water Sampled: 02/20/06 10:15 Received: 02/20/06 17:20									
Ethylbenzene	ND	0.200	ug/l	1	6B21042	02/21/06	02/21/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	Q-41
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.750	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20										
Acetone	ND	10.0		ug/l	1	6B21042	02/21/06	02/21/06	EPA 8260B	
Benzene	ND	0.200		"	"	"	"	"	"	
Bromobenzene	ND	0.500		"	"	"	"	"	"	
Bromochloromethane	ND	0.200		"	"	"	"	"	"	
Bromodichloromethane	ND	0.200		"	"	"	"	"	"	
Bromoform	ND	0.200		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
2-Butanone	ND	2.00		"	"	"	"	"	"	
n-Butylbenzene	ND	0.200		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500		"	"	"	"	"	"	
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		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
Dibromochloromethane	ND	0.200		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200		"	"	"	"	"	"	
Dibromomethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20									
Ethylbenzene	ND	0.200	ug/l	1	6B21042	02/21/06	02/21/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	Q-41
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.750	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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North Creek Analytical, Inc.
 Environmental Laboratory Network



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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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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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LMW-9-0206 (B6B0431-03) Water Sampled: 02/20/06 14:45 Received: 02/20/06 17:20

Acetone	ND	10.0	ug/l	1	6B21042	02/21/06	02/21/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	

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.R273 Project Manager: Douglas Morell	Reported: 03/23/06 11:44
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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								
LMW-9-0206 (B6B0431-03) Water Sampled: 02/20/06 14:45 Received: 02/20/06 17:20										
Ethylbenzene	ND	0.200		ug/l	1	6B21042	02/21/06	02/21/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	
n-Hexane	ND	1.00		"	"	"	"	"	"	
2-Hexanone	ND	2.00		"	"	"	"	"	"	
Isopropylbenzene	ND	0.500		"	"	"	"	"	"	Q-41
p-Isopropyltoluene	ND	0.200		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00		"	"	"	"	"	"	
Methylene chloride	ND	5.00		"	"	"	"	"	"	
Naphthalene	ND	0.500		"	"	"	"	"	"	
n-Propylbenzene	ND	0.500		"	"	"	"	"	"	
Styrene	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
Tetrachloroethene	ND	0.200		"	"	"	"	"	"	
Toluene	ND	0.200		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500		"	"	"	"	"	"	
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
o-Xylene	ND	0.250		"	"	"	"	"	"	
m,p-Xylene	ND	0.500		"	"	"	"	"	"	
Total Xylenes	ND	0.750		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	103 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130				"	"	"	"	
Surrogate: 4-BFB	102 %	70-130				"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-10-0206 (B6B0431-04) Water Sampled: 02/20/06 12:45 Received: 02/20/06 17:20									
Acetone	ND	10.0	ug/l	1	6B23045	02/23/06	02/23/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-10-0206 (B6B0431-04) Water Sampled: 02/20/06 12:45 Received: 02/20/06 17:20									
Ethylbenzene	ND	0.200	ug/l	1	6B23045	02/23/06	02/23/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	"
n-Hexane	ND	1.00	"	"	"	"	"	"	"
2-Hexanone	ND	2.00	"	"	"	"	"	"	"
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	"
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	"
Methylene chloride	ND	5.00	"	"	"	"	"	"	"
Naphthalene	ND	0.500	"	"	"	"	"	"	"
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	"
Styrene	ND	0.500	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	"
Toluene	ND	0.200	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	"
Trichloroethene	ND	0.200	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	"
Vinyl chloride	ND	0.200	"	"	"	"	"	"	"
o-Xylene	ND	0.250	"	"	"	"	"	"	"
m,p-Xylene	ND	0.500	"	"	"	"	"	"	"
Total Xylenes	ND	0.750	"	"	"	"	"	"	"
Surrogate: 1,2-DCA-d4	98.5 %	70-130			"	"	"	"	"
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"	"	"
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	"

North Creek Analytical - Bothell

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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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Trip Blank (B6B0431-06) Water Sampled: 02/20/06 12:00 Received: 02/20/06 17:20

Acetone	ND	10.0	ug/l	1	6B21042	02/21/06	02/21/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (B6B0431-06) Water Sampled: 02/20/06 12:00 Received: 02/20/06 17:20									
Ethylbenzene	ND	0.200	ug/l	1	6B21042	02/21/06	02/21/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	Q-41
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.750	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	99.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-BFB	100 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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North Creek Analytical, Inc.
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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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-6-0206 (B6B0431-01) Water Sampled: 02/20/06 10:15 Received: 02/20/06 17:20										
Acenaphthene	ND	9.43		ug/l	1	6B22010	02/22/06	03/01/06	EPA 8270C	
Acenaphthylene	ND	9.43		"	"	"	"	"	"	
Aniline	ND	9.43		"	"	"	"	"	"	
Anthracene	ND	9.43		"	"	"	"	"	"	
Benzo (a) anthracene	ND	9.43		"	"	"	"	"	"	
Benzo (a) pyrene	ND	9.43		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	9.43		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	9.43		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	9.43		"	"	"	"	"	"	
Benzoic Acid	ND	18.9		"	"	"	"	"	"	
Benzyl alcohol	ND	9.43		"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.43		"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	9.43		"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	9.43		"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.43		"	"	"	"	"	"	B
4-Bromophenyl phenyl ether	ND	9.43		"	"	"	"	"	"	
Butyl benzyl phthalate	ND	9.43		"	"	"	"	"	"	
Carbazole	ND	9.43		"	"	"	"	"	"	
4-Chloroaniline	ND	9.43		"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	9.43		"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.43		"	"	"	"	"	"	
2-Chlorophenol	ND	9.43		"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	9.43		"	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresol)	ND	9.43		"	"	"	"	"	"	
2-Methylphenol (o-Cresol)	ND	9.43		"	"	"	"	"	"	
Chrysene	ND	9.43		"	"	"	"	"	"	
Di-n-butyl phthalate	ND	9.43		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	9.43		"	"	"	"	"	"	
Dibenzofuran	ND	9.43		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	9.43		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	9.43		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	9.43		"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	9.43		"	"	"	"	"	"	
2,4-Dichlorophenol	ND	9.43		"	"	"	"	"	"	
Diethyl phthalate	ND	9.43		"	"	"	"	"	"	
2,4-Dimethylphenol	ND	9.43		"	"	"	"	"	"	
Dimethyl phthalate	ND	9.43		"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	9.43		"	"	"	"	"	"	

North Creek Analytical - Bothell

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North Creek Analytical, Inc.
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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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW-6-0206 (B6B0431-01) Water Sampled: 02/20/06 10:15 Received: 02/20/06 17:20

2,4-Dinitrophenol	ND	18.9	ug/l	1	6B22010	02/22/06	03/01/06	EPA 8270C	
2,4-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	9.43	"	"	"	"	"	"	
Fluoranthene	ND	9.43	"	"	"	"	"	"	
Fluorene	ND	9.43	"	"	"	"	"	"	
Hexachlorobenzene	ND	9.43	"	"	"	"	"	"	
Hexachlorobutadiene	ND	9.43	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	9.43	"	"	"	"	"	"	
Hexachloroethane	ND	9.43	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	9.43	"	"	"	"	"	"	
Isophorone	ND	9.43	"	"	"	"	"	"	
1-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
2-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
Naphthalene	ND	9.43	"	"	"	"	"	"	
2-Nitroaniline	ND	9.43	"	"	"	"	"	"	
3-Nitroaniline	ND	9.43	"	"	"	"	"	"	
4-Nitroaniline	ND	9.43	"	"	"	"	"	"	
Nitrobenzene	ND	9.43	"	"	"	"	"	"	
2-Nitrophenol	ND	9.43	"	"	"	"	"	"	
4-Nitrophenol	ND	9.43	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	9.43	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	9.43	"	"	"	"	"	"	
Pentachlorophenol	ND	9.43	"	"	"	"	"	"	
Phenanthrene	ND	9.43	"	"	"	"	"	"	
Phenol	ND	9.43	"	"	"	"	"	"	
Pyrene	ND	9.43	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	9.43	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
Surrogate: 2-FBP	65.9 %	41-129			"	"	"	"	
Surrogate: 2-FP	64.4 %	18-124			"	"	"	"	
Surrogate: Nitrobenzene-d5	73.9 %	44-124			"	"	"	"	
Surrogate: Phenol-d6	63.9 %	25-122			"	"	"	"	
Surrogate: p-Terphenyl-d14	75.8 %	10-132			"	"	"	"	
Surrogate: 2,4,6-TBP	62.0 %	19-132			"	"	"	"	

North Creek Analytical - Bothell

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 Environmental Laboratory Network



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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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20									
Acenaphthene	ND	9.43	ug/l	1	6B22010	02/22/06	03/01/06	EPA 8270C	
Acenaphthylene	ND	9.43	"	"	"	"	"	"	
Aniline	ND	9.43	"	"	"	"	"	"	
Anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) pyrene	ND	9.43	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	9.43	"	"	"	"	"	"	
Benzoic Acid	ND	18.9	"	"	"	"	"	"	
Benzyl alcohol	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.43	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	9.43	"	"	"	"	"	"	
Carbazole	ND	9.43	"	"	"	"	"	"	
4-Chloroaniline	ND	9.43	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	9.43	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.43	"	"	"	"	"	"	
2-Chlorophenol	ND	9.43	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresol)	ND	9.43	"	"	"	"	"	"	
2-Methylphenol (o-Cresol)	ND	9.43	"	"	"	"	"	"	
Chrysene	ND	9.43	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	9.43	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	9.43	"	"	"	"	"	"	
Dibenzofuran	ND	9.43	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	9.43	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	9.43	"	"	"	"	"	"	
Diethyl phthalate	ND	9.43	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	9.43	"	"	"	"	"	"	
Dimethyl phthalate	ND	9.43	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	9.43	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20									
2,4-Dinitrophenol	ND	18.9	ug/l	1	6B22010	02/22/06	03/01/06	EPA 8270C	
2,4-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	9.43	"	"	"	"	"	"	
Fluoranthene	ND	9.43	"	"	"	"	"	"	
Fluorene	ND	9.43	"	"	"	"	"	"	
Hexachlorobenzene	ND	9.43	"	"	"	"	"	"	
Hexachlorobutadiene	ND	9.43	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	9.43	"	"	"	"	"	"	
Hexachloroethane	ND	9.43	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	9.43	"	"	"	"	"	"	
Isophorone	ND	9.43	"	"	"	"	"	"	
1-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
2-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
Naphthalene	ND	9.43	"	"	"	"	"	"	
2-Nitroaniline	ND	9.43	"	"	"	"	"	"	
3-Nitroaniline	ND	9.43	"	"	"	"	"	"	
4-Nitroaniline	ND	9.43	"	"	"	"	"	"	
Nitrobenzene	ND	9.43	"	"	"	"	"	"	
2-Nitrophenol	ND	9.43	"	"	"	"	"	"	
4-Nitrophenol	ND	9.43	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	9.43	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	9.43	"	"	"	"	"	"	
Pentachlorophenol	ND	9.43	"	"	"	"	"	"	
Phenanthrene	ND	9.43	"	"	"	"	"	"	
Phenol	ND	9.43	"	"	"	"	"	"	
Pyrene	ND	9.43	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	9.43	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
Surrogate: 2-FBP	80.7 %	41-129			"	"	"	"	
Surrogate: 2-FP	79.6 %	18-124			"	"	"	"	
Surrogate: Nitrobenzene-d5	91.5 %	44-124			"	"	"	"	
Surrogate: Phenol-d6	76.9 %	25-122			"	"	"	"	
Surrogate: p-Terphenyl-d14	73.3 %	10-132			"	"	"	"	
Surrogate: 2,4,6-TBP	73.7 %	19-132			"	"	"	"	

North Creek Analytical - Bothell

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

Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-9-0206 (B6B0431-03) Water Sampled: 02/20/06 14:45 Received: 02/20/06 17:20									
Acenaphthene	ND	9.43	ug/l	1	6B22010	02/22/06	03/03/06	EPA 8270C	
Acenaphthylene	ND	9.43	"	"	"	"	"	"	
Aniline	ND	9.43	"	"	"	"	"	"	
Anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) pyrene	ND	9.43	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	9.43	"	"	"	"	"	"	
Benzoic Acid	ND	18.9	"	"	"	"	"	"	
Benzyl alcohol	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.43	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	9.43	"	"	"	"	"	"	
Carbazole	ND	9.43	"	"	"	"	"	"	
4-Chloroaniline	ND	9.43	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	9.43	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.43	"	"	"	"	"	"	
2-Chlorophenol	ND	9.43	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresol)	ND	9.43	"	"	"	"	"	"	
2-Methylphenol (o-Cresol)	ND	9.43	"	"	"	"	"	"	
Chrysene	ND	9.43	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	9.43	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	9.43	"	"	"	"	"	"	
Dibenzofuran	ND	9.43	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	9.43	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	9.43	"	"	"	"	"	"	
Diethyl phthalate	ND	9.43	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	9.43	"	"	"	"	"	"	
Dimethyl phthalate	ND	9.43	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	9.43	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-9-0206 (B6B0431-03) Water Sampled: 02/20/06 14:45 Received: 02/20/06 17:20									
2,4-Dinitrophenol	ND	18.9	ug/l	1	6B22010	02/22/06	03/03/06	EPA 8270C	
2,4-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	9.43	"	"	"	"	"	"	
Fluoranthene	ND	9.43	"	"	"	"	"	"	
Fluorene	ND	9.43	"	"	"	"	"	"	
Hexachlorobenzene	ND	9.43	"	"	"	"	"	"	
Hexachlorobutadiene	ND	9.43	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	9.43	"	"	"	"	"	"	
Hexachloroethane	ND	9.43	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	9.43	"	"	"	"	"	"	
Isophorone	ND	9.43	"	"	"	"	"	"	
1-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
2-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
Naphthalene	ND	9.43	"	"	"	"	"	"	
2-Nitroaniline	ND	9.43	"	"	"	"	"	"	
3-Nitroaniline	ND	9.43	"	"	"	"	"	"	
4-Nitroaniline	ND	9.43	"	"	"	"	"	"	
Nitrobenzene	ND	9.43	"	"	"	"	"	"	
2-Nitrophenol	ND	9.43	"	"	"	"	"	"	
4-Nitrophenol	ND	9.43	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	9.43	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	9.43	"	"	"	"	"	"	
Pentachlorophenol	ND	9.43	"	"	"	"	"	"	
Phenanthrene	ND	9.43	"	"	"	"	"	"	
Phenol	ND	9.43	"	"	"	"	"	"	
Pyrene	ND	9.43	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	9.43	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
Surrogate: 2-FBP	76.1 %	41-129			"	"	"	"	
Surrogate: 2-FP	64.1 %	18-124			"	"	"	"	
Surrogate: Nitrobenzene-d5	77.1 %	44-124			"	"	"	"	
Surrogate: Phenol-d6	65.2 %	25-122			"	"	"	"	
Surrogate: p-Terphenyl-d14	81.4 %	10-132			"	"	"	"	
Surrogate: 2,4,6-TBP	71.3 %	19-132			"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-10-0206 (B6B0431-04) Water Sampled: 02/20/06 12:45 Received: 02/20/06 17:20									
Acenaphthene	ND	9.43	ug/l	1	6B22010	02/22/06	03/03/06	EPA 8270C	
Acenaphthylene	ND	9.43	"	"	"	"	"	"	
Aniline	ND	9.43	"	"	"	"	"	"	
Anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) pyrene	ND	9.43	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	9.43	"	"	"	"	"	"	
Benzoic Acid	ND	18.9	"	"	"	"	"	"	
Benzyl alcohol	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.43	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	9.43	"	"	"	"	"	"	
Carbazole	ND	9.43	"	"	"	"	"	"	
4-Chloroaniline	ND	9.43	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	9.43	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.43	"	"	"	"	"	"	
2-Chlorophenol	ND	9.43	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresol)	ND	9.43	"	"	"	"	"	"	
2-Methylphenol (o-Cresol)	ND	9.43	"	"	"	"	"	"	
Chrysene	ND	9.43	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	9.43	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	9.43	"	"	"	"	"	"	
Dibenzofuran	ND	9.43	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	9.43	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	9.43	"	"	"	"	"	"	
Diethyl phthalate	ND	9.43	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	9.43	"	"	"	"	"	"	
Dimethyl phthalate	ND	9.43	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	9.43	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-10-0206 (B6B0431-04) Water Sampled: 02/20/06 12:45 Received: 02/20/06 17:20									
2,4-Dinitrophenol	ND	18.9	ug/l	1	6B22010	02/22/06	03/03/06	EPA 8270C	
2,4-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	9.43	"	"	"	"	"	"	
Fluoranthene	ND	9.43	"	"	"	"	"	"	
Fluorene	ND	9.43	"	"	"	"	"	"	
Hexachlorobenzene	ND	9.43	"	"	"	"	"	"	
Hexachlorobutadiene	ND	9.43	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	9.43	"	"	"	"	"	"	
Hexachloroethane	ND	9.43	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	9.43	"	"	"	"	"	"	
Isophorone	ND	9.43	"	"	"	"	"	"	
1-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
2-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
Naphthalene	ND	9.43	"	"	"	"	"	"	
2-Nitroaniline	ND	9.43	"	"	"	"	"	"	
3-Nitroaniline	ND	9.43	"	"	"	"	"	"	
4-Nitroaniline	ND	9.43	"	"	"	"	"	"	
Nitrobenzene	ND	9.43	"	"	"	"	"	"	
2-Nitrophenol	ND	9.43	"	"	"	"	"	"	
4-Nitrophenol	ND	9.43	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	9.43	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	9.43	"	"	"	"	"	"	
Pentachlorophenol	ND	9.43	"	"	"	"	"	"	
Phenanthrene	ND	9.43	"	"	"	"	"	"	
Phenol	ND	9.43	"	"	"	"	"	"	
Pyrene	ND	9.43	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	9.43	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
Surrogate: 2-FBP	77.3 %	41-129			"	"	"	"	
Surrogate: 2-FP	68.4 %	18-124			"	"	"	"	
Surrogate: Nitrobenzene-d5	78.2 %	44-124			"	"	"	"	
Surrogate: Phenol-d6	69.4 %	25-122			"	"	"	"	
Surrogate: p-Terphenyl-d14	85.6 %	10-132			"	"	"	"	
Surrogate: 2,4,6-TBP	74.0 %	19-132			"	"	"	"	

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.R273 Project Manager: Douglas Morell	Reported: 03/23/06 11:44
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Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-6-0206 (B6B0431-01) Water Sampled: 02/20/06 10:15 Received: 02/20/06 17:20									
Bicarbonate Alkalinity	121	5.00	mg/L as CaCO3	1	6C03054	03/03/06	03/03/06	SM 2320B	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Total Alkalinity	121	5.00	"	"	"	"	"	"	
Cyanide (weak acid dissociable)	ND	0.0100	mg/l	"	6C05006	03/05/06	03/06/06	SM4500-CN I Mod	
Cyanide (total)	ND	0.0100	"	"	6C02058	03/02/06	03/02/06	EPA 9010B Mod	
Nitrate-Nitrogen	ND	0.0100	mg/l as N	"	6B21068	02/21/06	02/21/06	EPA 353.2	
LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20									
Bicarbonate Alkalinity	368	5.00	mg/L as CaCO3	1	6C03054	03/03/06	03/03/06	SM 2320B	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Total Alkalinity	368	5.00	"	"	"	"	"	"	
Cyanide (weak acid dissociable)	ND	0.0100	mg/l	"	6C05006	03/05/06	03/06/06	SM4500-CN I Mod	
Cyanide (total)	ND	0.0100	"	"	6C02058	03/02/06	03/02/06	EPA 9010B Mod	
Nitrate-Nitrogen	ND	0.0100	mg/l as N	"	6B21068	02/21/06	02/21/06	EPA 353.2	
LMW-9-0206 (B6B0431-03) Water Sampled: 02/20/06 14:45 Received: 02/20/06 17:20									
Bicarbonate Alkalinity	428	5.00	mg/L as CaCO3	1	6C03054	03/03/06	03/03/06	SM 2320B	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Total Alkalinity	428	5.00	"	"	"	"	"	"	
Ammonia-Nitrogen	0.539	0.100	mg/l as N	"	6B22056	02/22/06	02/22/06	EPA 350.3	
Cyanide (weak acid dissociable)	ND	0.0100	mg/l	"	6C05006	03/05/06	03/06/06	SM4500-CN I Mod	
Cyanide (total)	ND	0.0100	"	"	6C02058	03/02/06	03/02/06	EPA 9010B Mod	
Ferric Iron	0.520	0.250	"	"	6B21043	02/21/06	03/01/06	SM 3500-Fe D	I-02
Ferrous Iron	1.07	0.250	"	"	6B21054	02/21/06	02/21/06	SM 3500-Fe B	Q-31
Nitrate-Nitrogen	0.0210	0.0100	mg/l as N	"	6B21068	02/21/06	02/21/06	EPA 353.2	
Nitrite-Nitrogen	ND	0.0100	"	"	6B21058	02/21/06	02/21/06	"	
Sulfide	ND	20.0	mg/l	"	6B27038	02/27/06	02/27/06	EPA 9030B	
Total Kjeldahl Nitrogen	ND	1.00	mg/l as N	"	6B24058	02/24/06	02/24/06	EPA 351.2	

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.R273 Project Manager: Douglas Morell	Reported: 03/23/06 11:44
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Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-10-0206 (B6B0431-04) Water Sampled: 02/20/06 12:45 Received: 02/20/06 17:20										
Bicarbonate Alkalinity	192	5.00		mg/L as CaCO3	1	6C03054	03/03/06	03/03/06	SM 2320B	
Carbonate Alkalinity	7.00	5.00		"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00		"	"	"	"	"	"	
Total Alkalinity	199	5.00		"	"	"	"	"	"	
Cyanide (weak acid dissociable)	ND	0.0100		mg/l	"	6C05006	03/05/06	03/06/06	SM4500-CN I Mod	
Cyanide (total)	ND	0.0100		"	"	6C03075	03/03/06	03/03/06	EPA 9010B Mod	
Nitrate-Nitrogen	0.0125	0.0100		mg/l as N	"	6B21068	02/21/06	02/21/06	EPA 353.2	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 11:44

Miscellaneous Physical/Conventional Chemistry Parameters
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-6-0206 (B6B0431-01) Water Sampled: 02/20/06 10:15 Received: 02/20/06 17:20									
Silica (SiO ₂)	22.0	5.00	mg/l	25	6B24044	02/24/06	02/24/06	SM 4500-Si D	
LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20									
Silica (SiO ₂)	23.2	5.00	mg/l	25	6B24044	02/24/06	02/24/06	SM 4500-Si D	
LMW-9-0206 (B6B0431-03) Water Sampled: 02/20/06 14:45 Received: 02/20/06 17:20									
Silica (SiO ₂)	21.2	5.00	mg/l	25	6B24044	02/24/06	02/24/06	SM 4500-Si D	
LMW-10-0206 (B6B0431-04) Water Sampled: 02/20/06 12:45 Received: 02/20/06 17:20									
Silica (SiO ₂)	10.8	5.00	mg/l	25	6B24044	02/24/06	02/24/06	SM 4500-Si D	

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.R273 Project Manager: Douglas Morell	Reported: 03/23/06 11:44
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Anions per EPA Method 300.0
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-6-0206 (B6B0431-01) Water Sampled: 02/20/06 10:15 Received: 02/20/06 17:20									
Chloride	1.12	0.500	mg/l	1	6021101	02/24/06	02/24/06	EPA 300.0	
Fluoride	ND	0.500	"	"	"	"	"	"	
Sulfate	15.8	1.00	"	"	"	"	"	"	
LMW-7-0206 (B6B0431-02) Water Sampled: 02/20/06 11:45 Received: 02/20/06 17:20									
Chloride	1.88	0.500	mg/l	1	6021101	02/24/06	02/24/06	EPA 300.0	
Fluoride	ND	0.500	"	"	"	"	"	"	
Sulfate	5.26	1.00	"	"	"	"	"	"	
LMW-9-0206 (B6B0431-03) Water Sampled: 02/20/06 14:45 Received: 02/20/06 17:20									
Chloride	4.57	0.500	mg/l	1	6021101	02/24/06	02/24/06	EPA 300.0	
Fluoride	ND	0.500	"	"	"	"	"	"	
Sulfate	6.83	1.00	"	"	"	"	"	"	
LMW-10-0206 (B6B0431-04) Water Sampled: 02/20/06 12:45 Received: 02/20/06 17:20									
Chloride	2.18	0.500	mg/l	1	6021101	02/24/06	02/24/06	EPA 300.0	
Fluoride	0.810	0.500	"	"	"	"	"	"	
Sulfate	4.13	1.00	"	"	"	"	"	"	

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.R273 Project Manager: Douglas Morell	Reported: 03/23/06 11:44
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Hydrocarbons by GC/FID Headspace
North Creek Analytical - Alaska

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

LMW-9-0206 (B6B0431-03) Water Sampled: 02/20/06 14:45 Received: 02/20/06 17:20

Methane	845	1.20		ug/l	1	6020036	02/24/06	02/24/06	RSK 175	
Ethane	ND	10.0		"	"	"	"	"	"	
Ethene	ND	10.0		"	"	"	"	"	"	

North Creek Analytical - Bothell

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05 March 2006

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

Enclosed are the results of analyses for samples received by the laboratory on 02/16/06 18:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kortland Orr
PM



Revised Chain of Custody

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
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 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BU00364**

NCA CLIENT: Goldor Associates		INVOICE TO:		TURNAROUND REQUEST In Business Days * Organic & Inorganic Analyses <input checked="" 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 OTHER Specify: _____ <small>* Turnaround Request for this standard may have Peak Charge.</small>															
REPORT TO: Doug Morell		P.O. NUMBER:																	
ADDRESS: 16300 NE Union Hill Rd, 200 Redmond WA 98052																			
PHONE: 425-883-0777 FAX: 425-882-5448																			
PROJECT NAME: Landsburg Mine 8273		PRESERVATIVE																	
PROJECT NUMBER: 423-1000-002-100		REQUESTED ANALYSES																	
SAMPLED BY: Im Young																			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TAML	VOCs	SVOCs	TPH/HCID	PCBs & Pesticides	Wet Chem	Cyanide	Mercury/Asst	Formaldehyde	Ammonia	KetohalN	Sulfite	Sulfide	Other Metals	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 LMW-11-0206	2/15/06 @ 1630	X	X		X		X	X	X	X	X	X	X	X		W	16		
2 LMW-11-0206	2/16/06 @ 1200			X	X											W	4		
3 P-2-0206	2/16/06 @ 1350	X	X	X	X	X	X	X	X	X	X	X	X	X		W	22		
4 Trip Blank	2/15/06 12:00															W	1		
5																			
6																			
7																			
8																			
9																			
10																			
RELEASED BY: [Signature]		DATE: 2/16/06		RECEIVED BY: [Signature]		DATE: 2/16/06													
PRINT NAME: Im Young		FIRM: Goldor		TIME: 1840		PRINT NAME: DRAWY TONY		FIRM: NCA		TIME: 1840									
RELEASED BY:		DATE:		RECEIVED BY:		DATE:													
PRINT NAME:		FIRM:		TIME:		PRINT NAME:		FIRM:		TIME:									
ADDITIONAL REMARKS:																TEMP:			
COC REV 09/04																		PAGE OF	



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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.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-11-0206	B6B0364-01	Water	02/15/06 16:30	02/16/06 18:40
LMW-11-0206	B6B0364-02	Water	02/16/06 12:00	02/16/06 18:40
P-2-0206	B6B0364-03	Water	02/16/06 13:50	02/16/06 18:40
trip blank	B6B0364-04	Water	02/15/06 12:00	02/16/06 18:40

North Creek Analytical - Bothell

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North Creek Analytical, Inc.
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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40									
Gx Range Hydrocarbons	ND	0.236	mg/l	1	6B18021	02/18/06	02/21/06	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Diesel Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Insulating Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Heavy Fuel Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Lube Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Surrogate: 2-FBP	88.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	104 %	50-150			"	"	"	"	

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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.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

Volatile Petroleum Products by NWTPH-Gx
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-11-0206 (B6B0364-01) Water Sampled: 02/15/06 16:30 Received: 02/16/06 18:40									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	6B21038	02/21/06	02/21/06	NWTPH-Gx	
Surrogate: 4-BFB (FID)	89.2 %	58-144			"	"	"	"	

North Creek Analytical - Bothell

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

Total 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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LMW-11-0206 (B6B0364-01) Water **Sampled: 02/15/06 16:30** **Received: 02/16/06 18:40**

Silver	ND	0.00100	mg/l	1	6B20020	02/20/06	02/21/06	EPA 6020	
Aluminum	ND	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Arsenic	0.0100	0.00100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Barium	0.293	0.0100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Calcium	61.0	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Cadmium	ND	0.00100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Cobalt	0.00153	0.00100	"	"	"	"	"	"	
Chromium	0.00160	0.00100	"	"	"	"	"	"	
Copper	0.00127	0.00100	"	"	"	"	"	"	
Iron	2.38	0.150	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Mercury	ND	0.000200	"	"	6B22060	02/22/06	02/23/06	EPA 7470A	
Potassium	ND	2.00	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Magnesium	30.7	0.500	"	"	"	"	"	"	
Manganese	0.195	0.0100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Sodium	24.5	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Nickel	0.00510	0.00100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Vanadium	0.00109	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

P-2-0206 (B6B0364-03) Water **Sampled: 02/16/06 13:50** **Received: 02/16/06 18:40**

Silver	ND	0.00100	mg/l	1	6B20020	02/20/06	02/21/06	EPA 6020	
Aluminum	ND	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Arsenic	0.00128	0.00100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Barium	0.286	0.0100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Calcium	84.3	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Cadmium	ND	0.00100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Cobalt	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	0.00107	0.00100	"	"	"	"	"	"	
Iron	1.23	0.150	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Mercury	ND	0.000200	"	"	6B22060	02/22/06	02/23/06	EPA 7470A	
Potassium	2.75	2.00	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	

North Creek Analytical - Bothell

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North Creek Analytical, Inc.
 Environmental Laboratory Network

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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.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40									
Magnesium	47.4	0.500	mg/l	1	6B21043	02/21/06	02/22/06	EPA 6010B	
Manganese	0.232	0.0100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Sodium	16.1	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Nickel	0.00283	0.00100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Vanadium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

Organochlorine Pesticides by EPA Method 8081A
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-11-0206 (B6B0364-02) Water Sampled: 02/16/06 12:00 Received: 02/16/06 18:40									
Aldrin	ND	0.0481	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
alpha-BHC	ND	0.0385	"	"	"	"	"	"	
beta-BHC	ND	0.0385	"	"	"	"	"	"	
delta-BHC	ND	0.0481	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0385	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0385	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0385	"	"	"	"	"	"	
4,4'-DDD	ND	0.0385	"	"	"	"	"	"	
4,4'-DDE	ND	0.0769	"	"	"	"	"	"	
4,4'-DDT	ND	0.0769	"	"	"	"	"	"	
Dieldrin	ND	0.0769	"	"	"	"	"	"	
Endosulfan I	ND	0.0192	"	"	"	"	"	"	
Endosulfan II	ND	0.0769	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0962	"	"	"	"	"	"	
Endrin	ND	0.0769	"	"	"	"	"	"	
Endrin aldehyde	ND	0.154	"	"	"	"	"	"	
Endrin ketone	ND	0.0769	"	"	"	"	"	"	
Heptachlor	ND	0.0481	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0385	"	"	"	"	"	"	
Methoxychlor	ND	0.481	"	"	"	"	"	"	
Toxaphene	ND	1.92	"	"	"	"	"	"	
Surrogate: TCX	89.6 %	24-143			"	"	"	"	
Surrogate: Decachlorobiphenyl	68.8 %	10-145			"	"	"	"	

P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40									
Aldrin	ND	0.0472	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
alpha-BHC	ND	0.0377	"	"	"	"	"	"	
beta-BHC	ND	0.0377	"	"	"	"	"	"	
delta-BHC	ND	0.0472	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0377	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0377	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0377	"	"	"	"	"	"	
4,4'-DDD	ND	0.0377	"	"	"	"	"	"	
4,4'-DDE	ND	0.0755	"	"	"	"	"	"	
4,4'-DDT	ND	0.0755	"	"	"	"	"	"	
Dieldrin	ND	0.0755	"	"	"	"	"	"	
Endosulfan I	ND	0.0189	"	"	"	"	"	"	
Endosulfan II	ND	0.0755	"	"	"	"	"	"	

North Creek Analytical - Bothell

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North Creek Analytical, Inc.
Environmental Laboratory Network



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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.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

Organochlorine Pesticides by EPA Method 8081A
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40									
Endosulfan sulfate	ND	0.0943	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
Endrin	ND	0.0755	"	"	"	"	"	"	"
Endrin aldehyde	ND	0.151	"	"	"	"	"	"	"
Endrin ketone	ND	0.0755	"	"	"	"	"	"	"
Heptachlor	ND	0.0472	"	"	"	"	"	"	"
Heptachlor epoxide	ND	0.0377	"	"	"	"	"	"	"
Methoxychlor	ND	0.472	"	"	"	"	"	"	"
Toxaphene	ND	1.89	"	"	"	"	"	"	"
Surrogate: TCX	94.2 %	24-143			"	"	"	"	"
Surrogate: Decachlorobiphenyl	80.4 %	10-145			"	"	"	"	"

North Creek Analytical - Bothell

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

Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

Polychlorinated Biphenyls by EPA Method 8082
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-11-0206 (B6B0364-02) Water Sampled: 02/16/06 12:00 Received: 02/16/06 18:40									
Aroclor 1016 [2C]	ND	0.481	ug/l	1	6B22011	02/22/06	02/28/06	EPA 8082	
Aroclor 1221 [2C]	ND	0.481	"	"	"	"	"	"	
Aroclor 1232 [2C]	ND	0.481	"	"	"	"	"	"	
Aroclor 1242 [2C]	ND	0.481	"	"	"	"	"	"	
Aroclor 1248 [2C]	ND	0.481	"	"	"	"	"	"	
Aroclor 1254 [2C]	ND	0.481	"	"	"	"	"	"	
Aroclor 1260 [2C]	ND	0.481	"	"	"	"	"	"	
Aroclor 1262 [2C]	ND	0.481	"	"	"	"	"	"	
Aroclor 1268 [2C]	ND	0.481	"	"	"	"	"	"	
Surrogate: TCX [2C]	90.1 %	25-131			"	"	"	"	
Surrogate: Decachlorobiphenyl [2C]	66.7 %	22-134			"	"	"	"	
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40									
Aroclor 1016 [2C]	ND	0.472	ug/l	1	6B22011	02/22/06	02/28/06	EPA 8082	
Aroclor 1221 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1232 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1242 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1248 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1254 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1260 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1262 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1268 [2C]	ND	0.472	"	"	"	"	"	"	
Surrogate: TCX [2C]	91.5 %	25-131			"	"	"	"	
Surrogate: Decachlorobiphenyl [2C]	82.0 %	22-134			"	"	"	"	

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-11-0206 (B6B0364-01) Water Sampled: 02/15/06 16:30 Received: 02/16/06 18:40										
Acetone	ND	10.0		ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Benzene	ND	0.200		"	"	"	"	"	"	
Bromobenzene	ND	0.500		"	"	"	"	"	"	
Bromochloromethane	ND	0.200		"	"	"	"	"	"	
Bromodichloromethane	ND	0.200		"	"	"	"	"	"	
Bromoform	ND	0.200		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
2-Butanone	ND	2.00		"	"	"	"	"	"	
n-Butylbenzene	ND	0.200		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500		"	"	"	"	"	"	
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		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
Dibromochloromethane	ND	0.200		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200		"	"	"	"	"	"	
Dibromomethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	Q-40
1,1-Dichloropropene	ND	0.200		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	

North Creek Analytical - Bothell

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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.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-11-0206 (B6B0364-01) Water Sampled: 02/15/06 16:30 Received: 02/16/06 18:40									
Ethylbenzene	ND	0.200	ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.750	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	94.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	104 %	70-130			"	"	"	"	

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40									
Acetone	ND	10.0	ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	Q-40
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40									
Ethylbenzene	ND	0.200	ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	"
n-Hexane	ND	1.00	"	"	"	"	"	"	"
2-Hexanone	ND	2.00	"	"	"	"	"	"	"
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	"
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	"
Methylene chloride	ND	5.00	"	"	"	"	"	"	"
Naphthalene	ND	0.500	"	"	"	"	"	"	"
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	"
Styrene	ND	0.500	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	"
Toluene	ND	0.200	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	"
Trichloroethene	ND	0.200	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	"
Vinyl chloride	ND	0.200	"	"	"	"	"	"	"
o-Xylene	ND	0.250	"	"	"	"	"	"	"
m,p-Xylene	ND	0.500	"	"	"	"	"	"	"
Total Xylenes	ND	0.750	"	"	"	"	"	"	"
Surrogate: 1,2-DCA-d4	97.2 %	70-130			"	"	"	"	"
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"	"	"
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	"

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.R273
 Project Manager: Douglas Morell

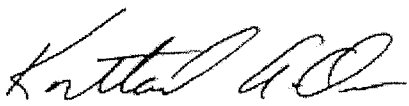
Reported:
 03/05/06 21:19

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trip blank (B6B0364-04) Water Sampled: 02/15/06 12:00 Received: 02/16/06 18:40									
Acetone	ND	10.0	ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	Q-40
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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North Creek Analytical, Inc.
 Environmental Laboratory Network



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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.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trip blank (B6B0364-04) Water Sampled: 02/15/06 12:00 Received: 02/16/06 18:40									
Ethylbenzene	ND	0.200	ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	"
n-Hexane	ND	1.00	"	"	"	"	"	"	"
2-Hexanone	ND	2.00	"	"	"	"	"	"	"
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	"
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	"
Methylene chloride	ND	5.00	"	"	"	"	"	"	"
Naphthalene	ND	0.500	"	"	"	"	"	"	"
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	"
Styrene	ND	0.500	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	"
Toluene	ND	0.200	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	"
Trichloroethene	ND	0.200	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	"
Vinyl chloride	ND	0.200	"	"	"	"	"	"	"
o-Xylene	ND	0.250	"	"	"	"	"	"	"
m,p-Xylene	ND	0.500	"	"	"	"	"	"	"
Total Xylenes	ND	0.750	"	"	"	"	"	"	"
Surrogate: 1,2-DCA-d4	97.0 %	70-130			"	"	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	"	"
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	"

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.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-11-0206 (B6B0364-02) Water Sampled: 02/16/06 12:00 Received: 02/16/06 18:40									
Acenaphthene	ND	9.43	ug/l	1	6B18019	02/18/06	02/22/06	EPA 8270C	
Acenaphthylene	ND	9.43	"	"	"	"	"	"	
Aniline	ND	9.43	"	"	"	"	"	"	
Anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) pyrene	ND	9.43	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	9.43	"	"	"	"	"	"	
Benzoic Acid	ND	18.9	"	"	"	"	"	"	
Benzyl alcohol	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.43	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	9.43	"	"	"	"	"	"	
Carbazole	ND	9.43	"	"	"	"	"	"	
4-Chloroaniline	ND	9.43	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	9.43	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.43	"	"	"	"	"	"	
2-Chlorophenol	ND	9.43	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
3 & 4-Methylphenol	ND	9.43	"	"	"	"	"	"	
2-Methylphenol	ND	9.43	"	"	"	"	"	"	
Chrysene	ND	9.43	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	9.43	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	9.43	"	"	"	"	"	"	
Dibenzofuran	ND	9.43	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	9.43	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	9.43	"	"	"	"	"	"	
Diethyl phthalate	ND	9.43	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	9.43	"	"	"	"	"	"	
Dimethyl phthalate	ND	9.43	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	9.43	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-11-0206 (B6B0364-02) Water Sampled: 02/16/06 12:00 Received: 02/16/06 18:40									
2,4-Dinitrophenol	ND	18.9	ug/l	1	6B18019	02/18/06	02/22/06	EPA 8270C	
2,4-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	9.43	"	"	"	"	"	"	
Fluoranthene	ND	9.43	"	"	"	"	"	"	
Fluorene	ND	9.43	"	"	"	"	"	"	
Hexachlorobenzene	ND	9.43	"	"	"	"	"	"	
Hexachlorobutadiene	ND	9.43	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	9.43	"	"	"	"	"	"	
Hexachloroethane	ND	9.43	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	9.43	"	"	"	"	"	"	
Isophorone	ND	9.43	"	"	"	"	"	"	
1-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
2-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
Naphthalene	ND	9.43	"	"	"	"	"	"	
2-Nitroaniline	ND	9.43	"	"	"	"	"	"	
3-Nitroaniline	ND	9.43	"	"	"	"	"	"	
4-Nitroaniline	ND	9.43	"	"	"	"	"	"	
Nitrobenzene	ND	9.43	"	"	"	"	"	"	
2-Nitrophenol	ND	9.43	"	"	"	"	"	"	
4-Nitrophenol	ND	9.43	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	9.43	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	9.43	"	"	"	"	"	"	
Pentachlorophenol	ND	9.43	"	"	"	"	"	"	
Phenanthrene	ND	9.43	"	"	"	"	"	"	
Phenol	ND	9.43	"	"	"	"	"	"	
Pyrene	ND	9.43	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	9.43	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
Surrogate: 2-FBP	82.2 %	41-129			"	"	"	"	
Surrogate: 2-FP	81.9 %	18-124			"	"	"	"	
Surrogate: Nitrobenzene-d5	92.2 %	44-124			"	"	"	"	
Surrogate: Phenol-d6	81.1 %	25-122			"	"	"	"	
Surrogate: p-Terphenyl-d14	106 %	10-132			"	"	"	"	
Surrogate: 2,4,6-TBP	69.5 %	19-132			"	"	"	"	

North Creek Analytical - Bothell

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40									
Acenaphthene	ND	9.43	ug/l	1	6B18019	02/18/06	02/22/06	EPA 8270C	
Acenaphthylene	ND	9.43	"	"	"	"	"	"	"
Aniline	ND	9.43	"	"	"	"	"	"	"
Anthracene	ND	9.43	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	9.43	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	9.43	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	9.43	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	9.43	"	"	"	"	"	"	"
Benzo (ghi) perylene	ND	9.43	"	"	"	"	"	"	"
Benzoic Acid	ND	18.9	"	"	"	"	"	"	"
Benzyl alcohol	ND	9.43	"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	9.43	"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	9.43	"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	9.43	"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	9.43	"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	9.43	"	"	"	"	"	"	"
Carbazole	ND	9.43	"	"	"	"	"	"	"
4-Chloroaniline	ND	9.43	"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	9.43	"	"	"	"	"	"	"
2-Chloronaphthalene	ND	9.43	"	"	"	"	"	"	"
2-Chlorophenol	ND	9.43	"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	"
3 & 4-Methylphenol	ND	9.43	"	"	"	"	"	"	"
2-Methylphenol	ND	9.43	"	"	"	"	"	"	"
Chrysene	ND	9.43	"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	9.43	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	9.43	"	"	"	"	"	"	"
Dibenzofuran	ND	9.43	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	9.43	"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	9.43	"	"	"	"	"	"	"
Diethyl phthalate	ND	9.43	"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	9.43	"	"	"	"	"	"	"
Dimethyl phthalate	ND	9.43	"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	9.43	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40									
2,4-Dinitrophenol	ND	18.9	ug/l	1	6B18019	02/18/06	02/22/06	EPA 8270C	
2,4-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	9.43	"	"	"	"	"	"	
Fluoranthene	ND	9.43	"	"	"	"	"	"	
Fluorene	ND	9.43	"	"	"	"	"	"	
Hexachlorobenzene	ND	9.43	"	"	"	"	"	"	
Hexachlorobutadiene	ND	9.43	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	9.43	"	"	"	"	"	"	
Hexachloroethane	ND	9.43	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	9.43	"	"	"	"	"	"	
Isophorone	ND	9.43	"	"	"	"	"	"	
1-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
2-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
Naphthalene	ND	9.43	"	"	"	"	"	"	
2-Nitroaniline	ND	9.43	"	"	"	"	"	"	
3-Nitroaniline	ND	9.43	"	"	"	"	"	"	
4-Nitroaniline	ND	9.43	"	"	"	"	"	"	
Nitrobenzene	ND	9.43	"	"	"	"	"	"	
2-Nitrophenol	ND	9.43	"	"	"	"	"	"	
4-Nitrophenol	ND	9.43	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	9.43	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	9.43	"	"	"	"	"	"	
Pentachlorophenol	ND	9.43	"	"	"	"	"	"	
Phenanthrene	ND	9.43	"	"	"	"	"	"	
Phenol	ND	9.43	"	"	"	"	"	"	
Pyrene	ND	9.43	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	9.43	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
Surrogate: 2-FBP	80.5 %	41-129			"	"	"	"	
Surrogate: 2-FP	80.3 %	18-124			"	"	"	"	
Surrogate: Nitrobenzene-d5	88.8 %	44-124			"	"	"	"	
Surrogate: Phenol-d6	78.9 %	25-122			"	"	"	"	
Surrogate: p-Terphenyl-d14	107 %	10-132			"	"	"	"	
Surrogate: 2,4,6-TBP	67.6 %	19-132			"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

**Conventional Chemistry Parameters by APHA/EPA Methods
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-11-0206 (B6B0364-01) Water Sampled: 02/15/06 16:30 Received: 02/16/06 18:40									
Bicarbonate Alkalinity	355	5.00	mg/L as CaCO3	1	6B27043	02/27/06	02/27/06	SM 2320B	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Total Alkalinity	355	5.00	"	"	"	"	"	"	
Ammonia-Nitrogen	0.755	0.100	mg/l as N	"	6B28061	02/28/06	02/28/06	EPA 350.3	
Cyanide (weak acid dissociable)	ND	0.0100	mg/l	"	6B28070	02/28/06	02/28/06	SM4500-CN I Mod	
Cyanide (total)	ND	0.0100	"	"	6B24048	02/24/06	02/24/06	EPA 9010B Mod	
Ferric Iron	2.25	0.250	"	"	6B21043	02/21/06	03/01/06	SM 3500-Fe D	I-02
Ferrous Iron	ND	0.250	"	"	6B17048	02/17/06	02/17/06	SM 3500-Fe B	Q-31
Nitrate-Nitrogen	ND	0.0100	mg/l as N	"	6B17070	02/17/06	02/17/06	EPA 353.2	
Nitrite-Nitrogen	ND	0.0100	"	"	6B20052	02/17/06	02/17/06	"	
Nitrate/Nitrite-Nitrogen	ND	0.0100	"	"	6B22063	02/22/06	02/22/06	"	
Sulfide	ND	20.0	mg/l	"	6B20075	02/20/06	02/20/06	EPA 9030B	
Total Kjeldahl Nitrogen	ND	1.00	mg/l as N	"	6B24058	02/24/06	02/24/06	EPA 351.2	
LMW-11-0206 (B6B0364-01RE1) Water Sampled: 02/15/06 16:30 Received: 02/16/06 18:40									
Bicarbonate Alkalinity	332	5.00	mg/L as CaCO3	1	6C01055	03/01/06	03/01/06	SM 2320B	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Total Alkalinity	332	5.00	"	"	"	"	"	"	
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40									
Bicarbonate Alkalinity	456	5.00	mg/L as CaCO3	1	6B27043	02/27/06	02/27/06	SM 2320B	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Total Alkalinity	456	5.00	"	"	"	"	"	"	
Ammonia-Nitrogen	0.926	0.100	mg/l as N	"	6B28061	02/28/06	02/28/06	EPA 350.3	
Cyanide (weak acid dissociable)	ND	0.0100	mg/l	"	6B28070	02/28/06	02/28/06	SM4500-CN I Mod	
Cyanide (total)	ND	0.0100	"	"	6B28069	02/28/06	02/28/06	EPA 9010B Mod	
Ferric Iron	0.260	0.250	"	"	6B21043	02/21/06	03/01/06	SM 3500-Fe D	I-02
Ferrous Iron	0.970	0.250	"	"	6B17048	02/17/06	02/17/06	SM 3500-Fe B	Q-31
Nitrate-Nitrogen	ND	0.0100	mg/l as N	"	6B17070	02/17/06	02/17/06	EPA 353.2	
Nitrite-Nitrogen	ND	0.0100	"	"	6B20052	02/17/06	02/17/06	"	
Nitrate/Nitrite-Nitrogen	ND	0.0100	"	"	6B22063	02/22/06	02/22/06	"	
Sulfide	ND	20.0	mg/l	"	6B20075	02/20/06	02/20/06	EPA 9030B	
Total Kjeldahl Nitrogen	ND	1.00	mg/l as N	"	6B24058	02/24/06	02/24/06	EPA 351.2	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

P-2-0206 (B6B0364-03RE1) Water **Sampled: 02/16/06 13:50** **Received: 02/16/06 18:40**

Bicarbonate Alkalinity	437	5.00	mg/L as CaCO3	1	6C01055	03/01/06	03/01/06	SM 2320B		
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	"	"
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	"	"
Total Alkalinity	437	5.00	"	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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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.R273 Project Manager: Douglas Morell	Reported: 03/05/06 21:19
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Miscellaneous Physical/Conventional Chemistry Parameters
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-11-0206 (B6B0364-01) Water Sampled: 02/15/06 16:30 Received: 02/16/06 18:40										
Silica (SiO2)	19.8	5.00		mg/l	25	6B24044	02/24/06	02/24/06	SM 4500-Si D	
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40										
Silica (SiO2)	20.8	5.00		mg/l	25	6B24044	02/24/06	02/24/06	SM 4500-Si D	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/05/06 21:19

Anions per EPA Method 300.0
North Creek Analytical - Portland

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-11-0206 (B6B0364-01) Water Sampled: 02/15/06 16:30 Received: 02/16/06 18:40										
Chloride	3.67	0.500		mg/l	1	6020982	02/22/06	02/22/06	EPA 300.0	
Fluoride	ND	0.500		"	"	"	"	"	"	
Sulfate	13.3	1.00		"	"	"	"	"	"	
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40										
Chloride	1.62	0.500		mg/l	1	6020982	02/22/06	02/22/06	EPA 300.0	
Fluoride	ND	0.500		"	"	"	"	"	"	
Sulfate	25.2	1.00		"	"	"	"	"	"	

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.R273 Project Manager: Douglas Morell	Reported: 03/05/06 21:19
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Hydrocarbons by GC/FID Headspace
North Creek Analytical - Alaska

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-11-0206 (B6B0364-01) Water Sampled: 02/15/06 16:30 Received: 02/16/06 18:40										
Methane	1170	1.20		ug/l	1	6020036	02/24/06	02/24/06	RSK 175	
Ethane	ND	10.0		"	"	"	"	"	"	
Ethene	ND	10.0		"	"	"	"	"	"	
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40										
Methane	1830	51.9		ug/l	43.26	6020036	02/24/06	02/24/06	RSK 175	R-02
Ethane	ND	10.0		"	1	"	"	"	"	
Ethene	ND	10.0		"	"	"	"	"	"	

North Creek Analytical - Bothell

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07 March 2006

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

Enclosed are the results of analyses for samples received by the laboratory on 02/17/06 17:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kortland Orr
PM



11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
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 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **B6B0393**

NCA CLIENT: *Goldor Associates*
 REPORT TO: *Doug Morall*
 ADDRESS: *18300 NE Drinn Hill Rd, 200 Redmond WA 98052*
 PHONE: *425-883-0777* FAX: *425-882-5448*

INVOICE TO:
 P.O. NUMBER:

TURNAROUND REQUEST
 in Business Days *

Organic & Inorganic Analyses
 10 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses
 5 4 3 2 1 <1

OTHER Specify:
* Turnaround Request fee (non standard) may incur Back Charges.

PROJECT NAME: *Lindsburg Mine*
 PROJECT NUMBER: *923-1000-002.R273*
 SAMPLED BY: *Im Young*

PRESERVATIVE									
REQUESTED ANALYSES									
TAML	VOCs	SVOCs	TPH/HCD	PCBs + Pesticides	Wet Chem	Cyanide			

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TAML	VOCs	SVOCs	TPH/HCD	PCBs + Pesticides	Wet Chem	Cyanide			MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 LMW-2-0206	2/17/06 @ 1150	X	X	X	X	X	X	X			W	15		01
2 LMW-4-0206		↓	↓	↓	↓	↓	↓	↓			↓	↓		02
3 LMW-5-0206		↓	↓	↓	↓	↓	↓	↓			↓	↓		03
4														
5														
6														
7														
8														
9														
10														

RELEASED BY: <i>[Signature]</i>	DATE: <i>2/17/06</i>	RECEIVED BY: <i>Cathy Gamble</i>	DATE: <i>2/17/06</i>
PRINT NAME: <i>Im Young</i>	FIRM: <i>Goldor</i>	PRINT NAME: <i>Cathy Gamble</i>	FIRM: <i>[Signature]</i>
TIME: <i>1710</i>	TIME: <i>17:10</i>		
RELEASED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	FIRM:	PRINT NAME:	FIRM:
TIME:	TIME:		

ADDITIONAL REMARKS:

COC REV 09/04

TEMP: *7.5°* PAGE (OF) *1*

B6B0393

**Landsberg Groundwater Sampling Regimen
Bi-Annual Groundwater Monitoring, February 2006**

North End

LMW-2

Target Analytes Metals List (TAML) – (1) 500ml Poly w/ Nitric Acid
VOCs – (3) 40ml VOA vials w/HCl
SVOCs – (2) 1 liter unpreserved amber
TPH / HCID – (2) 1 liter amber w/HCl + (3) 40 ml VOA w/ HCL for Gx f/u.
PCBs & Pesticides by 8080 – (2) 1 liter unpreserved amber
"Wet" chemistry (chloride, bicarbonate, fluoride, nitrate, silica, sulfate) – (1) 1 liter unpreserved poly
Cyanide – (1) 500 poly w/sodium hydroxide

LMW-4

Target Analytes Metals List (TAML) – (1) 500ml Poly w/ Nitric Acid
VOCs – (3) 40ml VOA vials w/HCl
SVOCs – (2) 1 liter unpreserved amber
TPH / HCID – (2) 1 liter amber w/HCl + (3) 40 ml VOA w/ HCL for Gx f/u.
PCBs & Pesticides by 8080 – (2) 1 liter unpreserved amber
"Wet" chemistry (chloride, bicarbonate, fluoride, nitrate, silica, sulfate) – (1) 1 liter unpreserved poly
Cyanide – (1) 500 poly w/sodium hydroxide

LMW-6

Target Analytes Metals List (TAML) – (1) 500ml Poly w/ Nitric Acid
VOCs – (3) 40ml VOA vials w/HCl
SVOCs – (2) 1 liter unpreserved amber
TPH / HCID – (2) 1 liter amber w/HCl + (3) 40 ml VOA w/ HCL for Gx f/u.
PCBs & Pesticides by 8080 – (2) 1 liter unpreserved amber
"Wet" chemistry (chloride, bicarbonate, fluoride, nitrate, silica, sulfate) – (1) 1 liter unpreserved poly
Cyanide – (1) 500 poly w/sodium hydroxide

LMW-7

Target Analytes Metals List (TAML) – (1) 500ml Poly w/ Nitric Acid
VOCs – (3) 40ml VOA vials w/HCl
SVOCs – (2) 1 liter unpreserved amber
TPH / HCID – (2) 1 liter amber w/HCl + (3) 40 ml VOA w/ HCL for Gx f/u.
PCBs & Pesticides by 8080 – (2) 1 liter unpreserved amber
"Wet" chemistry (chloride, bicarbonate, fluoride, nitrate, silica, sulfate) – (1) 1 liter unpreserved poly
Cyanide – (1) 500 poly w/sodium hydroxide

LMW-10

Target Analytes Metals List (TAML) – (1) 500ml Poly w/ Nitric Acid
VOCs – (3) 40ml VOA vials w/HCl
SVOCs – (2) 1 liter unpreserved amber
TPH / HCID – (2) 1 liter amber w/HCl + (3) 40 ml VOA w/ HCL for Gx f/u.
PCBs & Pesticides by 8080 – (2) 1 liter unpreserved amber
"Wet" chemistry (chloride, bicarbonate, fluoride, nitrate, silica, sulfate) – (1) 1 liter unpreserved poly
Cyanide – (1) 500 poly w/sodium hydroxide

South End

LMW-5

Target Analytes Metals List (TAML) – (1) 500ml Poly w/ Nitric Acid
VOCs – (3) 40ml VOA vials w/HCl
SVOCs – (2) 1 liter unpreserved amber
TPH / HCID – (2) 1 liter amber w/HCl + (3) 40 ml VOA w/ HCL for Gx f/u.
PCBs & Pesticides by 8080 – (2) 1 liter unpreserved amber
“Wet” chemistry (chloride, bicarbonate, fluoride, nitrate, silica, sulfate) – (1) 1 liter unpreserved poly
Cyanide – (1) 500 poly w/sodium hydroxide

LMW-8

Target Analytes Metals List (TAML) – (1) 500ml Poly w/ Nitric Acid
VOCs – (3) 40ml VOA vials w/HCl
SVOCs – (2) 1 liter unpreserved amber
TPH / HCID – (2) 1 liter amber w/HCl + (3) 40 ml VOA w/ HCL for Gx f/u.
PCBs & Pesticides by 8080 – (2) 1 liter unpreserved amber
“Wet” chemistry (chloride, bicarbonate, fluoride, nitrate, silica, sulfate) – (1) 1 liter unpreserved poly
Cyanide – (1) 500 poly w/sodium hydroxide

LMW-9

Target Analytes Metals List (TAML) – (1) 500ml Poly w/ Nitric Acid
VOCs – (3) 40ml VOA vials w/HCl
SVOCs – (2) 1 liter unpreserved amber
TPH / HCID – (2) 1 liter amber w/HCl + (3) 40 ml VOA w/ HCL for Gx f/u.
PCBs & Pesticides by 8080 – (2) 1 liter unpreserved amber
“Wet” chemistry (chloride, bicarbonate, fluoride, nitrate, silica, sulfate) – (1) 1 liter unpreserved poly
Cyanide – (1) 500 poly w/sodium hydroxide
Nitrate / nitrite / ferrous iron / ferric iron – 500ml unpreserved poly
Ammonia / Kjeldahl nitrogen – (1) 1 liter poly w/Sulfuric Acid
Sulfite – (1) 500ml unpreserved poly
Sulfide – (1) 500 poly w/ NaOH/ZnAc
Dissolved ethane / ethene / methane by RSK-175 – (3) 40 ml VOA w/ HCL
Dissolved Hydrogen

LMW-11

Target Analytes Metals List (TAML) – (1) 500ml Poly w/ Nitric Acid
VOCs – (3) 40ml VOA vials w/HCl
SVOCs – (2) 1 liter unpreserved amber
TPH / HCID – (2) 1 liter amber w/HCl + (3) 40 ml VOA w/ HCL for Gx f/u.
PCBs & Pesticides by 8080 – (2) 1 liter unpreserved amber
“Wet” chemistry (chloride, bicarbonate, fluoride, nitrate, silica, sulfate) – (1) 1 liter unpreserved poly
Cyanide – (1) 500 poly w/sodium hydroxide
Nitrate / nitrite / ferrous iron / ferric iron – 500ml unpreserved poly
Ammonia / Kjeldahl nitrogen – (1) 1 liter poly w/Sulfuric Acid
Sulfite – (1) 500ml unpreserved poly
Sulfide – (1) 500 poly w/ NaOH/ZnAc
Dissolved ethane / ethene / methane by RSK-175 – (3) 40 ml VOA w/ HCL
Dissolved Hydrogen

P-2

Target Analytes Metals List (TAML) – (1) 500ml Poly w/ Nitric Acid
VOCs – (3) 40ml VOA vials w/HCl
SVOCs – (2) 1 liter unpreserved amber
TPH / HCID – (2) 1 liter amber w/HCl + (3) 40 ml VOA w/ HCL for Gx f/u.
PCBs & Pesticides by 8080 – (2) 1 liter unpreserved amber
“Wet” chemistry (chloride, bicarbonate, fluoride, nitrate, silica, sulfate) – (1) 1 liter unpreserved poly

Cyanide – (1) 500 poly w/sodium hydroxide
Nitrate / nitrite / ferrous iron / ferric iron – 500ml unpreserved poly
Ammonia / Kjeldahl nitrogen – (1) 1 liter poly w/Sulfuric Acid
Sulfite – (1) 500ml unpreserved poly
Sulfide – (1) 500 poly w/ NaOH/ZnAc
Dissolved ethane / ethene / methane by RSK-175 – (3) 40 ml VOA w/ HCL
Dissolved Hydrogen



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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.R273 Project Manager: Douglas Morell	Reported: 03/07/06 08:55
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-2-0206	B6B0393-01	Water	02/17/06 11:50	02/17/06 17:10
LMW-4-0206	B6B0393-02	Water	02/17/06 13:10	02/17/06 17:10
LMW-5-0206	B6B0393-03	Water	02/17/06 14:45	02/17/06 17:10
TRIP BLANK	B6B0393-04	Water	02/17/06 12:00	02/17/06 17:10

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW-2-0206 (B6B0393-01) Water **Sampled: 02/17/06 11:50** **Received: 02/17/06 17:10**

Gx Range Hydrocarbons	ND	0.236	mg/l	1	6B18021	02/18/06	02/21/06	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Surrogate: 2-FBP	94.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	106 %	50-150			"	"	"	"	

LMW-4-0206 (B6B0393-02) Water **Sampled: 02/17/06 13:10** **Received: 02/17/06 17:10**

Gx Range Hydrocarbons	ND	0.236	mg/l	1	6B18021	02/18/06	02/21/06	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Surrogate: 2-FBP	90.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	105 %	50-150			"	"	"	"	

LMW-5-0206 (B6B0393-03) Water **Sampled: 02/17/06 14:45** **Received: 02/17/06 17:10**

Gx Range Hydrocarbons	ND	0.236	mg/l	1	6B18021	02/18/06	02/21/06	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	
Surrogate: 2-FBP	91.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	104 %	50-150			"	"	"	"	

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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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-2-0206 (B6B0393-01) Water Sampled: 02/17/06 11:50 Received: 02/17/06 17:10									
Silver	ND	0.00100	mg/l	1	6B20020	02/20/06	02/21/06	EPA 6020	
Aluminum	ND	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Arsenic	ND	0.00100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Barium	0.352	0.0100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Calcium	119	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Cadmium	ND	0.00100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Cobalt	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Mercury	ND	0.000200	"	"	6B22060	02/22/06	02/23/06	EPA 7470A	
Potassium	3.64	2.00	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Magnesium	72.3	0.500	"	"	"	"	"	"	
Manganese	0.229	0.0100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Sodium	22.8	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Nickel	0.00253	0.00100	"	"	6B20020	02/20/06	02/21/06	EPA 6020	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Vanadium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

LMW-4-0206 (B6B0393-02) Water Sampled: 02/17/06 13:10 Received: 02/17/06 17:10									
Silver	ND	0.00100	mg/l	1	6B20041	02/20/06	02/21/06	EPA 6020	
Aluminum	ND	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Arsenic	ND	0.00100	"	"	6B20041	02/20/06	02/21/06	EPA 6020	
Barium	0.356	0.0100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Calcium	118	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Cadmium	ND	0.00100	"	"	6B20041	02/20/06	02/21/06	EPA 6020	
Cobalt	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	0.563	0.150	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Mercury	ND	0.000200	"	"	6B22060	02/22/06	02/23/06	EPA 7470A	
Potassium	3.38	2.00	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Total 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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LMW-4-0206 (B6B0393-02) Water Sampled: 02/17/06 13:10 Received: 02/17/06 17:10

Magnesium	71.0	0.500	mg/l	1	6B21043	02/21/06	02/22/06	EPA 6010B	
Manganese	0.187	0.0100	"	"	6B20041	02/20/06	02/21/06	EPA 6020	
Sodium	26.6	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Nickel	0.00192	0.00100	"	"	6B20041	02/20/06	02/21/06	EPA 6020	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Vanadium	ND	0.00100	"	"	"	"	"	"	
Zinc	0.0125	0.0100	"	"	"	"	"	"	

LMW-5-0206 (B6B0393-03) Water Sampled: 02/17/06 14:45 Received: 02/17/06 17:10

Silver	ND	0.00100	mg/l	1	6B20041	02/20/06	02/21/06	EPA 6020	
Aluminum	ND	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Arsenic	ND	0.00100	"	"	6B20041	02/20/06	02/21/06	EPA 6020	
Barium	0.290	0.0100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Calcium	97.2	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Cadmium	ND	0.00100	"	"	6B20041	02/20/06	02/21/06	EPA 6020	
Cobalt	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	0.421	0.150	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Mercury	ND	0.000200	"	"	6B22060	02/22/06	02/23/06	EPA 7470A	
Potassium	2.97	2.00	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Magnesium	55.1	0.500	"	"	"	"	"	"	
Manganese	0.280	0.0100	"	"	6B20041	02/20/06	02/21/06	EPA 6020	
Sodium	17.8	0.250	"	"	6B21043	02/21/06	02/22/06	EPA 6010B	
Nickel	0.00163	0.00100	"	"	6B20041	02/20/06	02/21/06	EPA 6020	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Vanadium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Organochlorine Pesticides by EPA Method 8081A
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW-2-0206 (B6B0393-01) Water Sampled: 02/17/06 11:50 Received: 02/17/06 17:10

Aldrin	ND	0.0472	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
alpha-BHC	ND	0.0377	"	"	"	"	"	"	
beta-BHC	ND	0.0377	"	"	"	"	"	"	
delta-BHC	ND	0.0472	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0377	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0377	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0377	"	"	"	"	"	"	
4,4'-DDD	ND	0.0377	"	"	"	"	"	"	
4,4'-DDE	ND	0.0755	"	"	"	"	"	"	
4,4'-DDT	ND	0.0755	"	"	"	"	"	"	
Dieldrin	ND	0.0755	"	"	"	"	"	"	
Endosulfan I	ND	0.0189	"	"	"	"	"	"	
Endosulfan II	ND	0.0755	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0943	"	"	"	"	"	"	
Endrin	ND	0.0755	"	"	"	"	"	"	
Endrin aldehyde	ND	0.151	"	"	"	"	"	"	
Endrin ketone	ND	0.0755	"	"	"	"	"	"	
Heptachlor	ND	0.0472	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0377	"	"	"	"	"	"	
Methoxychlor	ND	0.472	"	"	"	"	"	"	
Toxaphene	ND	1.89	"	"	"	"	"	"	
Surrogate: TCX	88.4 %	24-143			"	"	"	"	
Surrogate: Decachlorobiphenyl	84.7 %	10-145			"	"	"	"	

LMW-4-0206 (B6B0393-02) Water Sampled: 02/17/06 13:10 Received: 02/17/06 17:10

Aldrin	ND	0.0472	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
alpha-BHC	ND	0.0377	"	"	"	"	"	"	
beta-BHC	ND	0.0377	"	"	"	"	"	"	
delta-BHC	ND	0.0472	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0377	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0377	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0377	"	"	"	"	"	"	
4,4'-DDD	ND	0.0377	"	"	"	"	"	"	
4,4'-DDE	ND	0.0755	"	"	"	"	"	"	
4,4'-DDT	ND	0.0755	"	"	"	"	"	"	
Dieldrin	ND	0.0755	"	"	"	"	"	"	
Endosulfan I	ND	0.0189	"	"	"	"	"	"	
Endosulfan II	ND	0.0755	"	"	"	"	"	"	

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Organochlorine Pesticides by EPA Method 8081A
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW-4-0206 (B6B0393-02) Water Sampled: 02/17/06 13:10 Received: 02/17/06 17:10

Endosulfan sulfate	ND	0.0943	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
Endrin	ND	0.0755	"	"	"	"	"	"	
Endrin aldehyde	ND	0.151	"	"	"	"	"	"	
Endrin ketone	ND	0.0755	"	"	"	"	"	"	
Heptachlor	ND	0.0472	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0377	"	"	"	"	"	"	
Methoxychlor	ND	0.472	"	"	"	"	"	"	
Toxaphene	ND	1.89	"	"	"	"	"	"	
Surrogate: TCX	90.5 %	24-143			"	"	"	"	
Surrogate: Decachlorobiphenyl	77.8 %	10-145			"	"	"	"	

LMW-5-0206 (B6B0393-03) Water Sampled: 02/17/06 14:45 Received: 02/17/06 17:10

Aldrin	ND	0.0472	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
alpha-BHC	ND	0.0377	"	"	"	"	"	"	
beta-BHC	ND	0.0377	"	"	"	"	"	"	
delta-BHC	ND	0.0472	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0377	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0377	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0377	"	"	"	"	"	"	
4,4'-DDD	ND	0.0377	"	"	"	"	"	"	
4,4'-DDE	ND	0.0755	"	"	"	"	"	"	
4,4'-DDT	ND	0.0755	"	"	"	"	"	"	
Dieldrin	ND	0.0755	"	"	"	"	"	"	
Endosulfan I	ND	0.0189	"	"	"	"	"	"	
Endosulfan II	ND	0.0755	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0943	"	"	"	"	"	"	
Endrin	ND	0.0755	"	"	"	"	"	"	
Endrin aldehyde	ND	0.151	"	"	"	"	"	"	
Endrin ketone	ND	0.0755	"	"	"	"	"	"	
Heptachlor	ND	0.0472	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0377	"	"	"	"	"	"	
Methoxychlor	ND	0.472	"	"	"	"	"	"	
Toxaphene	ND	1.89	"	"	"	"	"	"	
Surrogate: TCX	64.0 %	24-143			"	"	"	"	
Surrogate: Decachlorobiphenyl	55.6 %	10-145			"	"	"	"	

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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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Polychlorinated Biphenyls by EPA Method 8082
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW-2-0206 (B6B0393-01) Water **Sampled: 02/17/06 11:50** **Received: 02/17/06 17:10**

Aroclor 1016 [2C]	ND	0.472	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8082	
Aroclor 1221 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1232 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1242 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1248 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1254 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1260 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1262 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1268 [2C]	ND	0.472	"	"	"	"	"	"	

<i>Surrogate: TCX [2C]</i>	81.0 %	25-131			"	"	"	"	
<i>Surrogate: Decachlorobiphenyl [2C]</i>	76.7 %	22-134			"	"	"	"	

LMW-4-0206 (B6B0393-02) Water **Sampled: 02/17/06 13:10** **Received: 02/17/06 17:10**

Aroclor 1016 [2C]	ND	0.472	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8082	
Aroclor 1221 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1232 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1242 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1248 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1254 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1260 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1262 [2C]	ND	0.472	"	"	"	"	"	"	
Aroclor 1268 [2C]	ND	0.472	"	"	"	"	"	"	

<i>Surrogate: TCX [2C]</i>	82.5 %	25-131			"	"	"	"	
<i>Surrogate: Decachlorobiphenyl [2C]</i>	81.0 %	22-134			"	"	"	"	

North Creek Analytical - Bothell

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North Creek Analytical, Inc.
Environmental Laboratory Network



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

Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Polychlorinated Biphenyls by EPA Method 8082
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-5-0206 (B6B0393-03) Water Sampled: 02/17/06 14:45 Received: 02/17/06 17:10										
Aroclor 1016 [2C]	ND	0.472		ug/l	1	6B22011	02/22/06	03/01/06	EPA 8082	
Aroclor 1221 [2C]	ND	0.472		"	"	"	"	"	"	
Aroclor 1232 [2C]	ND	0.472		"	"	"	"	"	"	
Aroclor 1242 [2C]	ND	0.472		"	"	"	"	"	"	
Aroclor 1248 [2C]	ND	0.472		"	"	"	"	"	"	
Aroclor 1254 [2C]	ND	0.472		"	"	"	"	"	"	
Aroclor 1260 [2C]	ND	0.472		"	"	"	"	"	"	
Aroclor 1262 [2C]	ND	0.472		"	"	"	"	"	"	
Aroclor 1268 [2C]	ND	0.472		"	"	"	"	"	"	
Surrogate: TCX [2C]	80.4 %	25-131				"	"	"	"	
Surrogate: Decachlorobiphenyl [2C]	83.1 %	22-134				"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-2-0206 (B6B0393-01) Water Sampled: 02/17/06 11:50 Received: 02/17/06 17:10									
Acetone	ND	10.0	ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	Q-40

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

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

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW-2-0206 (B6B0393-01) Water Sampled: 02/17/06 11:50 Received: 02/17/06 17:10									
Ethylbenzene	ND	0.200	ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.750	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	96.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	"	
Surrogate: 4-BFB	104 %	70-130			"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

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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LMW-4-0206 (B6B0393-02) Water Sampled: 02/17/06 13:10 Received: 02/17/06 17:10

Acetone	ND	10.0	ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	Q-40
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-4-0206 (B6B0393-02) Water Sampled: 02/17/06 13:10 Received: 02/17/06 17:10									
Ethylbenzene	ND	0.200	ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.750	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	97.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Golder Associates Inc.
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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

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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LMW-5-0206 (B6B0393-03) Water Sampled: 02/17/06 14:45 Received: 02/17/06 17:10

Acetone	ND	10.0	ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	Q-40
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-5-0206 (B6B0393-03) Water Sampled: 02/17/06 14:45 Received: 02/17/06 17:10										
Ethylbenzene	ND	0.200		ug/l	1	6B18025	02/18/06	02/18/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	
n-Hexane	ND	1.00		"	"	"	"	"	"	
2-Hexanone	ND	2.00		"	"	"	"	"	"	
Isopropylbenzene	ND	0.500		"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00		"	"	"	"	"	"	
Methylene chloride	ND	5.00		"	"	"	"	"	"	
Naphthalene	ND	0.500		"	"	"	"	"	"	
n-Propylbenzene	ND	0.500		"	"	"	"	"	"	
Styrene	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200		"	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
Tetrachloroethene	ND	0.200		"	"	"	"	"	"	
Toluene	ND	0.200		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500		"	"	"	"	"	"	
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
o-Xylene	ND	0.250		"	"	"	"	"	"	
m,p-Xylene	ND	0.500		"	"	"	"	"	"	
Total Xylenes	ND	0.750		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	99.0 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130				"	"	"	"	
Surrogate: 4-BFB	102 %	70-130				"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TRIP BLANK (B6B0393-04) Water Sampled: 02/17/06 12:00 Received: 02/17/06 17:10									
Acetone	ND	10.0	ug/l	1	6B22038	02/22/06	02/22/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TRIP BLANK (B6B0393-04) Water Sampled: 02/17/06 12:00 Received: 02/17/06 17:10									
Ethylbenzene	ND	0.200	ug/l	1	6B22038	02/22/06	02/22/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.750	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	91.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-BFB	100 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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

Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW-2-0206 (B6B0393-01) Water Sampled: 02/17/06 11:50 Received: 02/17/06 17:10

Acenaphthene	ND	9.43	ug/l	1	6B18019	02/18/06	02/22/06	EPA 8270C	
Acenaphthylene	ND	9.43	"	"	"	"	"	"	
Aniline	ND	9.43	"	"	"	"	"	"	
Anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) pyrene	ND	9.43	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	9.43	"	"	"	"	"	"	
Benzoic Acid	ND	18.9	"	"	"	"	"	"	
Benzyl alcohol	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.43	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	9.43	"	"	"	"	"	"	
Carbazole	ND	9.43	"	"	"	"	"	"	
4-Chloroaniline	ND	9.43	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	9.43	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.43	"	"	"	"	"	"	
2-Chlorophenol	ND	9.43	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
3 & 4-Methylphenol	ND	9.43	"	"	"	"	"	"	
2-Methylphenol	ND	9.43	"	"	"	"	"	"	
Chrysene	ND	9.43	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	9.43	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	9.43	"	"	"	"	"	"	
Dibenzofuran	ND	9.43	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	9.43	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	9.43	"	"	"	"	"	"	
Diethyl phthalate	ND	9.43	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	9.43	"	"	"	"	"	"	
Dimethyl phthalate	ND	9.43	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	9.43	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-2-0206 (B6B0393-01) Water Sampled: 02/17/06 11:50 Received: 02/17/06 17:10									
2,4-Dinitrophenol	ND	18.9	ug/l	1	6B18019	02/18/06	02/22/06	EPA 8270C	
2,4-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	9.43	"	"	"	"	"	"	
Fluoranthene	ND	9.43	"	"	"	"	"	"	
Fluorene	ND	9.43	"	"	"	"	"	"	
Hexachlorobenzene	ND	9.43	"	"	"	"	"	"	
Hexachlorobutadiene	ND	9.43	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	9.43	"	"	"	"	"	"	
Hexachloroethane	ND	9.43	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	9.43	"	"	"	"	"	"	
Isophorone	ND	9.43	"	"	"	"	"	"	
1-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
2-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
Naphthalene	ND	9.43	"	"	"	"	"	"	
2-Nitroaniline	ND	9.43	"	"	"	"	"	"	
3-Nitroaniline	ND	9.43	"	"	"	"	"	"	
4-Nitroaniline	ND	9.43	"	"	"	"	"	"	
Nitrobenzene	ND	9.43	"	"	"	"	"	"	
2-Nitrophenol	ND	9.43	"	"	"	"	"	"	
4-Nitrophenol	ND	9.43	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	9.43	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	9.43	"	"	"	"	"	"	
Pentachlorophenol	ND	9.43	"	"	"	"	"	"	
Phenanthrene	ND	9.43	"	"	"	"	"	"	
Phenol	ND	9.43	"	"	"	"	"	"	
Pyrene	ND	9.43	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	9.43	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
Surrogate: 2-FBP	80.5 %	41-129			"	"	"	"	
Surrogate: 2-FP	77.9 %	18-124			"	"	"	"	
Surrogate: Nitrobenzene-d5	90.3 %	44-124			"	"	"	"	
Surrogate: Phenol-d6	77.9 %	25-122			"	"	"	"	
Surrogate: p-Terphenyl-d14	113 %	10-132			"	"	"	"	
Surrogate: 2,4,6-TBP	70.3 %	19-132			"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-4-0206 (B6B0393-02) Water Sampled: 02/17/06 13:10 Received: 02/17/06 17:10										
Acenaphthene	ND	9.43		ug/l	l	6B18019	02/18/06	02/23/06	EPA 8270C	
Acenaphthylene	ND	9.43		"	"	"	"	"	"	
Aniline	ND	9.43		"	"	"	"	"	"	
Anthracene	ND	9.43		"	"	"	"	"	"	
Benzo (a) anthracene	ND	9.43		"	"	"	"	"	"	
Benzo (a) pyrene	ND	9.43		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	9.43		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	9.43		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	9.43		"	"	"	"	"	"	
Benzoic Acid	ND	18.9		"	"	"	"	"	"	
Benzyl alcohol	ND	9.43		"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.43		"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	9.43		"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	9.43		"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.43		"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	9.43		"	"	"	"	"	"	
Butyl benzyl phthalate	ND	9.43		"	"	"	"	"	"	
Carbazole	ND	9.43		"	"	"	"	"	"	
4-Chloroaniline	ND	9.43		"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	9.43		"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.43		"	"	"	"	"	"	
2-Chlorophenol	ND	9.43		"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	9.43		"	"	"	"	"	"	
3 & 4-Methylphenol	ND	9.43		"	"	"	"	"	"	
2-Methylphenol	ND	9.43		"	"	"	"	"	"	
Chrysene	ND	9.43		"	"	"	"	"	"	
Di-n-butyl phthalate	ND	9.43		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	9.43		"	"	"	"	"	"	
Dibenzofuran	ND	9.43		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	9.43		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	9.43		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	9.43		"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	9.43		"	"	"	"	"	"	
2,4-Dichlorophenol	ND	9.43		"	"	"	"	"	"	
Diethyl phthalate	ND	9.43		"	"	"	"	"	"	
2,4-Dimethylphenol	ND	9.43		"	"	"	"	"	"	
Dimethyl phthalate	ND	9.43		"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	9.43		"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LMW-4-0206 (B6B0393-02) Water Sampled: 02/17/06 13:10 Received: 02/17/06 17:10

2,4-Dinitrophenol	ND	18.9	ug/l	1	6B18019	02/18/06	02/23/06	EPA 8270C	
2,4-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	9.43	"	"	"	"	"	"	
Fluoranthene	ND	9.43	"	"	"	"	"	"	
Fluorene	ND	9.43	"	"	"	"	"	"	
Hexachlorobenzene	ND	9.43	"	"	"	"	"	"	
Hexachlorobutadiene	ND	9.43	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	9.43	"	"	"	"	"	"	
Hexachloroethane	ND	9.43	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	9.43	"	"	"	"	"	"	
Isophorone	ND	9.43	"	"	"	"	"	"	
1-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
2-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
Naphthalene	ND	9.43	"	"	"	"	"	"	
2-Nitroaniline	ND	9.43	"	"	"	"	"	"	
3-Nitroaniline	ND	9.43	"	"	"	"	"	"	
4-Nitroaniline	ND	9.43	"	"	"	"	"	"	
Nitrobenzene	ND	9.43	"	"	"	"	"	"	
2-Nitrophenol	ND	9.43	"	"	"	"	"	"	
4-Nitrophenol	ND	9.43	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	9.43	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	9.43	"	"	"	"	"	"	
Pentachlorophenol	ND	9.43	"	"	"	"	"	"	
Phenanthrene	ND	9.43	"	"	"	"	"	"	
Phenol	ND	9.43	"	"	"	"	"	"	
Pyrene	ND	9.43	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	9.43	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
Surrogate: 2-FBP	79.7 %	41-129			"	"	"	"	
Surrogate: 2-FP	78.9 %	18-124			"	"	"	"	
Surrogate: Nitrobenzene-d5	91.5 %	44-124			"	"	"	"	
Surrogate: Phenol-d6	81.4 %	25-122			"	"	"	"	
Surrogate: p-Terphenyl-d14	91.9 %	10-132			"	"	"	"	
Surrogate: 2,4,6-TBP	75.8 %	19-132			"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-5-0206 (B6B0393-03) Water Sampled: 02/17/06 14:45 Received: 02/17/06 17:10										
Acenaphthene	ND	9.43		ug/l	I	6B18019	02/18/06	02/23/06	EPA 8270C	
Acenaphthylene	ND	9.43		"	"	"	"	"	"	
Aniline	ND	9.43		"	"	"	"	"	"	
Anthracene	ND	9.43		"	"	"	"	"	"	
Benzo (a) anthracene	ND	9.43		"	"	"	"	"	"	
Benzo (a) pyrene	ND	9.43		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	9.43		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	9.43		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	9.43		"	"	"	"	"	"	
Benzoic Acid	ND	18.9		"	"	"	"	"	"	
Benzyl alcohol	ND	9.43		"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.43		"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	9.43		"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	9.43		"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.43		"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	9.43		"	"	"	"	"	"	
Butyl benzyl phthalate	ND	9.43		"	"	"	"	"	"	
Carbazole	ND	9.43		"	"	"	"	"	"	
4-Chloroaniline	ND	9.43		"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	9.43		"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.43		"	"	"	"	"	"	
2-Chlorophenol	ND	9.43		"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	9.43		"	"	"	"	"	"	
3 & 4-Methylphenol	ND	9.43		"	"	"	"	"	"	
2-Methylphenol	ND	9.43		"	"	"	"	"	"	
Chrysene	ND	9.43		"	"	"	"	"	"	
Di-n-butyl phthalate	ND	9.43		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	9.43		"	"	"	"	"	"	
Dibenzofuran	ND	9.43		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	9.43		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	9.43		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	9.43		"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	9.43		"	"	"	"	"	"	
2,4-Dichlorophenol	ND	9.43		"	"	"	"	"	"	
Diethyl phthalate	ND	9.43		"	"	"	"	"	"	
2,4-Dimethylphenol	ND	9.43		"	"	"	"	"	"	
Dimethyl phthalate	ND	9.43		"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	9.43		"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-5-0206 (B6B0393-03) Water Sampled: 02/17/06 14:45 Received: 02/17/06 17:10									
2,4-Dinitrophenol	ND	18.9	ug/l	1	6B18019	02/18/06	02/23/06	EPA 8270C	
2,4-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	9.43	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	9.43	"	"	"	"	"	"	
Fluoranthene	ND	9.43	"	"	"	"	"	"	
Fluorene	ND	9.43	"	"	"	"	"	"	
Hexachlorobenzene	ND	9.43	"	"	"	"	"	"	
Hexachlorobutadiene	ND	9.43	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	9.43	"	"	"	"	"	"	
Hexachloroethane	ND	9.43	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	9.43	"	"	"	"	"	"	
Isophorone	ND	9.43	"	"	"	"	"	"	
1-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
2-Methylnaphthalene	ND	9.43	"	"	"	"	"	"	
Naphthalene	ND	9.43	"	"	"	"	"	"	
2-Nitroaniline	ND	9.43	"	"	"	"	"	"	
3-Nitroaniline	ND	9.43	"	"	"	"	"	"	
4-Nitroaniline	ND	9.43	"	"	"	"	"	"	
Nitrobenzene	ND	9.43	"	"	"	"	"	"	
2-Nitrophenol	ND	9.43	"	"	"	"	"	"	
4-Nitrophenol	ND	9.43	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	9.43	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	9.43	"	"	"	"	"	"	
Pentachlorophenol	ND	9.43	"	"	"	"	"	"	
Phenanthrene	ND	9.43	"	"	"	"	"	"	
Phenol	ND	9.43	"	"	"	"	"	"	
Pyrene	ND	9.43	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	9.43	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.43	"	"	"	"	"	"	
Surrogate: 2-FBP	75.8 %	41-129			"	"	"	"	
Surrogate: 2-FP	77.7 %	18-124			"	"	"	"	
Surrogate: Nitrobenzene-d5	88.6 %	44-124			"	"	"	"	
Surrogate: Phenol-d6	79.4 %	25-122			"	"	"	"	
Surrogate: p-Terphenyl-d14	86.7 %	10-132			"	"	"	"	
Surrogate: 2,4,6-TBP	68.8 %	19-132			"	"	"	"	

North Creek Analytical - Bothell

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 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-2-0206 (B6B0393-01) Water Sampled: 02/17/06 11:50 Received: 02/17/06 17:10									
Bicarbonate Alkalinity	637	5.00	mg/L as CaCO ₃	1	6C01066	03/01/06	03/01/06	SM 2320B	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Total Alkalinity	637	5.00	"	"	"	"	"	"	
Cyanide (weak acid dissociable)	ND	0.0100	mg/l	"	6B28070	02/28/06	02/28/06	SM4500-CN I Mod	
Cyanide (total)	ND	0.0100	"	"	6B28069	02/28/06	02/28/06	EPA 9010B Mod	
Nitrate-Nitrogen	ND	0.200	mg/l as N	"	6B18009	02/18/06	02/18/06	EPA 353.2	
LMW-4-0206 (B6B0393-02) Water Sampled: 02/17/06 13:10 Received: 02/17/06 17:10									
Bicarbonate Alkalinity	628	5.00	mg/L as CaCO ₃	1	6C01066	03/01/06	03/01/06	SM 2320B	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Total Alkalinity	628	5.00	"	"	"	"	"	"	
Cyanide (weak acid dissociable)	ND	0.0100	mg/l	"	6B28070	02/28/06	02/28/06	SM4500-CN I Mod	
Cyanide (total)	ND	0.0100	"	"	6C02058	03/02/06	03/02/06	EPA 9010B Mod	
Nitrate-Nitrogen	ND	0.0100	mg/l as N	"	6B18009	02/18/06	02/18/06	EPA 353.2	
LMW-5-0206 (B6B0393-03) Water Sampled: 02/17/06 14:45 Received: 02/17/06 17:10									
Bicarbonate Alkalinity	511	5.00	mg/L as CaCO ₃	1	6C01066	03/01/06	03/01/06	SM 2320B	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Total Alkalinity	511	5.00	"	"	"	"	"	"	
Cyanide (weak acid dissociable)	ND	0.0100	mg/l	"	6B28070	02/28/06	02/28/06	SM4500-CN I Mod	
Cyanide (total)	ND	0.0100	"	"	6C02058	03/02/06	03/02/06	EPA 9010B Mod	
Nitrate-Nitrogen	ND	0.0100	mg/l as N	"	6B18009	02/18/06	02/18/06	EPA 353.2	

North Creek Analytical - Bothell

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Miscellaneous Physical/Conventional Chemistry Parameters
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-2-0206 (B6B0393-01) Water Sampled: 02/17/06 11:50 Received: 02/17/06 17:10									
Silica (SiO2)	20.2	5.00	mg/l	25	6B24044	02/24/06	02/24/06	SM 4500-Si D	
LMW-4-0206 (B6B0393-02) Water Sampled: 02/17/06 13:10 Received: 02/17/06 17:10									
Silica (SiO2)	19.8	5.00	mg/l	25	6B24044	02/24/06	02/24/06	SM 4500-Si D	
LMW-5-0206 (B6B0393-03) Water Sampled: 02/17/06 14:45 Received: 02/17/06 17:10									
Silica (SiO2)	20.8	5.00	mg/l	25	6B24044	02/24/06	02/24/06	SM 4500-Si D	

North Creek Analytical - Bothell

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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.R273
 Project Manager: Douglas Morell

Reported:
 03/07/06 08:55

Anions per EPA Method 300.0
North Creek Analytical - Portland

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-2-0206 (B6B0393-01) Water Sampled: 02/17/06 11:50 Received: 02/17/06 17:10										
Chloride	5.68	0.500		mg/l	1	6020982	02/22/06	02/22/06	EPA 300.0	
Fluoride	ND	0.500		"	"	"	"	"	"	
Sulfate	15.4	1.00		"	"	"	"	"	"	
LMW-4-0206 (B6B0393-02) Water Sampled: 02/17/06 13:10 Received: 02/17/06 17:10										
Chloride	5.31	0.500		mg/l	1	6020982	02/22/06	02/22/06	EPA 300.0	
Fluoride	ND	0.500		"	"	"	"	"	"	
Sulfate	15.7	1.00		"	"	"	"	"	"	
LMW-5-0206 (B6B0393-03) Water Sampled: 02/17/06 14:45 Received: 02/17/06 17:10										
Chloride	1.53	0.500		mg/l	1	6020982	02/22/06	02/22/06	EPA 300.0	
Fluoride	ND	0.500		"	"	"	"	"	"	
Sulfate	35.8	1.00		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kortland Orr, PM



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23 March 2006

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

Enclosed are the results of analyses for samples received by the laboratory on 02/21/06 14:46. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kortland Orr
PM



Revised Chain of Custody

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
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 20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **B630442**

NCA CLIENT: Goldar Associates		INVOICE TO:		TURNAROUND REQUEST In Business Days * Organic & Inorganic Analyses <input checked="" 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>STW</small> Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STW</small> OTHER Specify: <small>* Turnaround Request Log then standard very hour back charges.</small>									
REPORT TO: Doug Morall ADDRESS: 18300 NE Union Hill Rd, 200 Redmond WA 98052		P.O. NUMBER:											
PHONE: 425-888-0777 FAX: 425-882-5498		PRESERVATIVE											
PROJECT NAME: Landsburg Mine		REQUESTED ANALYSES											
PROJECT NUMBER: 923-1000-002.R273													
SAMPLED BY: Ian Young													
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TAML	VOCs	SVOCs	TPH	HCID	PCB-4 Residuals	Wet Chem	Cynide	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 LMW-8-0306	2/21/06 @ 1300	X	X	X	X	X	X	X	X	W	15		- 01
TRP BLANK	2/21/06 1200										1		- 02
3													
4													
5													
6													
7													
8													
9													
10													
RELEASED BY: [Signature]	DATE: 2/21/06	RECEIVED BY: [Signature]	DATE: 2/21/06										
PRINT NAME: Ian Young	FIRM: Goldar	TIME: 1410	PRINT NAME: Blankinship	FIRM: NCA	TIME: 1410								
RELEASED BY:	DATE:	RECEIVED BY:	DATE:										
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:								
ADDITIONAL REMARKS:												TEMP:	
COC REV 09/04												G.H. W/H	PAGE OF



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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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-8-0206	B6B0442-01	Water	02/21/06 13:00	02/21/06 14:46
TRIP BLANK	B6B0442-02	Water	02/21/06 12:00	02/21/06 14:46

North Creek Analytical - Bothell

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Kortland Orr, PM

North Creek Analytical, Inc.
Environmental Laboratory Network



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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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

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

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW-8-0206 (B6B0442-01) Water Sampled: 02/21/06 13:00 Received: 02/21/06 14:46									
Gx Range Hydrocarbons	ND	0.236	mg/l	1	6B22012	02/22/06	02/26/06	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Diesel Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Insulating Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Heavy Fuel Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Lube Oil Range Hydrocarbons	ND	0.594	"	"	"	"	"	"	"
Surrogate: 2-FBP	91.5 %	50-150			"	"	"	"	"
Surrogate: Octacosane	99.6 %	50-150			"	"	"	"	"

North Creek Analytical - Bothell

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Golder Associates Inc.
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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-8-0206 (B6B0442-01) Water Sampled: 02/21/06 13:00 Received: 02/21/06 14:46									
Silver	ND	0.00100	mg/l	1	6B24035	02/24/06	02/28/06	EPA 6020	
Aluminum	ND	0.250	"	"	6C02026	03/02/06	03/03/06	EPA 6010B	
Arsenic	0.00127	0.00100	"	"	6B24035	02/24/06	02/28/06	EPA 6020	
Barium	0.0386	0.0100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Calcium	34.6	0.250	"	"	6C02026	03/02/06	03/03/06	EPA 6010B	
Cadmium	ND	0.00100	"	"	6B24035	02/24/06	02/28/06	EPA 6020	
Cobalt	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	5.75	0.150	"	"	6C02026	03/02/06	03/03/06	EPA 6010B	
Mercury	ND	0.000200	"	"	6B22060	02/22/06	02/23/06	EPA 7470A	
Potassium	2.24	2.00	"	"	6C02026	03/02/06	03/03/06	EPA 6010B	
Magnesium	18.7	0.500	"	"	"	"	"	"	
Sodium	8.72	0.250	"	"	"	"	"	"	
Nickel	0.00143	0.00100	"	"	6B24035	02/24/06	02/28/06	EPA 6020	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Vanadium	0.00103	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

LMW-8-0206 (B6B0442-01RE1) Water Sampled: 02/21/06 13:00 Received: 02/21/06 14:46									
Manganese	0.376	0.0500	mg/l	5	6B24035	02/24/06	03/01/06	EPA 6020	

North Creek Analytical - Bothell

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Golder Associates Inc.
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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

Organochlorine Pesticides by EPA Method 8081A
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-8-0206 (B6B0442-01) Water Sampled: 02/21/06 13:00 Received: 02/21/06 14:46									
Aldrin	ND	0.0500	ug/l	1	6B22011	02/22/06	03/01/06	EPA 8081A	
alpha-BHC	ND	0.0400	"	"	"	"	"	"	
beta-BHC	ND	0.0400	"	"	"	"	"	"	
delta-BHC	ND	0.0500	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0400	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0400	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0400	"	"	"	"	"	"	
4,4'-DDD	ND	0.0400	"	"	"	"	"	"	
4,4'-DDE	ND	0.0800	"	"	"	"	"	"	
4,4'-DDT	ND	0.0800	"	"	"	"	"	"	
Dieldrin	ND	0.0800	"	"	"	"	"	"	
Endosulfan I	ND	0.0200	"	"	"	"	"	"	
Endosulfan II	ND	0.0800	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.100	"	"	"	"	"	"	
Endrin	ND	0.0800	"	"	"	"	"	"	
Endrin aldehyde	ND	0.160	"	"	"	"	"	"	
Endrin ketone	ND	0.0800	"	"	"	"	"	"	
Heptachlor	ND	0.0500	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0400	"	"	"	"	"	"	
Methoxychlor	ND	0.500	"	"	"	"	"	"	
Toxaphene	ND	2.00	"	"	"	"	"	"	
Surrogate: TCX	83.5 %	24-143			"	"	"	"	
Surrogate: Decachlorobiphenyl	52.0 %	10-145			"	"	"	"	

North Creek Analytical - Bothell

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 Environmental Laboratory Network



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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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

Polychlorinated Biphenyls by EPA Method 8082
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-8-0206 (B6B0442-01) Water Sampled: 02/21/06 13:00 Received: 02/21/06 14:46										
Aroclor 1016 [2C]	ND	0.500		ug/l	1	6B22011	02/22/06	02/28/06	EPA 8082	
Aroclor 1221 [2C]	ND	0.500		"	"	"	"	"	"	
Aroclor 1232 [2C]	ND	0.500		"	"	"	"	"	"	
Aroclor 1242 [2C]	ND	0.500		"	"	"	"	"	"	
Aroclor 1248 [2C]	ND	0.500		"	"	"	"	"	"	
Aroclor 1254 [2C]	ND	0.500		"	"	"	"	"	"	
Aroclor 1260 [2C]	ND	0.500		"	"	"	"	"	"	
Aroclor 1262 [2C]	ND	0.500		"	"	"	"	"	"	
Aroclor 1268 [2C]	ND	0.500		"	"	"	"	"	"	
Surrogate: TCX [2C]	80.5 %		25-131			"	"	"	"	
Surrogate: Decachlorobiphenyl [2C]	52.0 %		22-134			"	"	"	"	

North Creek Analytical - Bothell

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North Creek Analytical, Inc.
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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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-8-0206 (B6B0442-01) Water Sampled: 02/21/06 13:00 Received: 02/21/06 14:46									
Acetone	ND	10.0	ug/l	1	6B22038	02/22/06	02/22/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kortland Orr, PM

North Creek Analytical, Inc.
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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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-8-0206 (B6B0442-01) Water Sampled: 02/21/06 13:00 Received: 02/21/06 14:46										
Ethylbenzene	ND	0.200		ug/l	1	6B22038	02/22/06	02/22/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	
n-Hexane	ND	1.00		"	"	"	"	"	"	
2-Hexanone	ND	2.00		"	"	"	"	"	"	
Isopropylbenzene	ND	0.500		"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00		"	"	"	"	"	"	
Methylene chloride	ND	5.00		"	"	"	"	"	"	
Naphthalene	ND	0.500		"	"	"	"	"	"	
n-Propylbenzene	ND	0.500		"	"	"	"	"	"	
Styrene	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
Tetrachloroethene	ND	0.200		"	"	"	"	"	"	
Toluene	ND	0.200		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500		"	"	"	"	"	"	
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
o-Xylene	ND	0.250		"	"	"	"	"	"	
m,p-Xylene	ND	0.500		"	"	"	"	"	"	
Total Xylenes	ND	0.750		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	89.8 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130				"	"	"	"	
Surrogate: 4-BFB	100 %	70-130				"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TRIP BLANK (B6B0442-02) Water Sampled: 02/21/06 12:00 Received: 02/21/06 14:46									
Acetone	ND	10.0	ug/l	1	6B22038	02/22/06	02/22/06	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
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	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
TRIP BLANK (B6B0442-02) Water Sampled: 02/21/06 12:00 Received: 02/21/06 14:46										
Ethylbenzene	ND	0.200		ug/l	1	6B22038	02/22/06	02/22/06	EPA 8260B	
Hexachlorobutadiene	ND	0.500		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	
n-Hexane	ND	1.00		"	"	"	"	"	"	
2-Hexanone	ND	2.00		"	"	"	"	"	"	
Isopropylbenzene	ND	0.500		"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00		"	"	"	"	"	"	
Methylene chloride	ND	5.00		"	"	"	"	"	"	
Naphthalene	ND	0.500		"	"	"	"	"	"	
n-Propylbenzene	ND	0.500		"	"	"	"	"	"	
Styrene	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
Tetrachloroethene	ND	0.200		"	"	"	"	"	"	
Toluene	ND	0.200		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500		"	"	"	"	"	"	
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
o-Xylene	ND	0.250		"	"	"	"	"	"	
m,p-Xylene	ND	0.500		"	"	"	"	"	"	
Total Xylenes	ND	0.750		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	88.5 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130				"	"	"	"	
Surrogate: 4-BFB	101 %	70-130				"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-8-0206 (B6B0442-01) Water Sampled: 02/21/06 13:00 Received: 02/21/06 14:46									
Acenaphthene	ND	9.43	ug/l	1	6B22010	02/22/06	03/03/06	EPA 8270C	
Acenaphthylene	ND	9.43	"	"	"	"	"	"	
Aniline	ND	9.43	"	"	"	"	"	"	
Anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) anthracene	ND	9.43	"	"	"	"	"	"	
Benzo (a) pyrene	ND	9.43	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	9.43	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	9.43	"	"	"	"	"	"	
Benzoic Acid	ND	18.9	"	"	"	"	"	"	
Benzyl alcohol	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	9.43	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.43	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	9.43	"	"	"	"	"	"	
Carbazole	ND	9.43	"	"	"	"	"	"	
4-Chloroaniline	ND	9.43	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	9.43	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.43	"	"	"	"	"	"	
2-Chlorophenol	ND	9.43	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	9.43	"	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresol)	ND	9.43	"	"	"	"	"	"	
2-Methylphenol (o-Cresol)	ND	9.43	"	"	"	"	"	"	
Chrysene	ND	9.43	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	9.43	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	9.43	"	"	"	"	"	"	
Dibenzofuran	ND	9.43	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	9.43	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	9.43	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	9.43	"	"	"	"	"	"	
Diethyl phthalate	ND	9.43	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	9.43	"	"	"	"	"	"	
Dimethyl phthalate	ND	9.43	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	9.43	"	"	"	"	"	"	

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.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

Semivolatile Organic Compounds by EPA Method 8270C
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW-8-0206 (B6B0442-01) Water Sampled: 02/21/06 13:00 Received: 02/21/06 14:46										
2,4-Dinitrophenol	ND	18.9		ug/l	1	6B22010	02/22/06	03/03/06	EPA 8270C	
2,4-Dinitrotoluene	ND	9.43		"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	9.43		"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	9.43		"	"	"	"	"	"	
Fluoranthene	ND	9.43		"	"	"	"	"	"	
Fluorene	ND	9.43		"	"	"	"	"	"	
Hexachlorobenzene	ND	9.43		"	"	"	"	"	"	
Hexachlorobutadiene	ND	9.43		"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	9.43		"	"	"	"	"	"	
Hexachloroethane	ND	9.43		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	9.43		"	"	"	"	"	"	
Isophorone	ND	9.43		"	"	"	"	"	"	
1-Methylnaphthalene	ND	9.43		"	"	"	"	"	"	
2-Methylnaphthalene	ND	9.43		"	"	"	"	"	"	
Naphthalene	ND	9.43		"	"	"	"	"	"	
2-Nitroaniline	ND	9.43		"	"	"	"	"	"	
3-Nitroaniline	ND	9.43		"	"	"	"	"	"	
4-Nitroaniline	ND	9.43		"	"	"	"	"	"	
Nitrobenzene	ND	9.43		"	"	"	"	"	"	
2-Nitrophenol	ND	9.43		"	"	"	"	"	"	
4-Nitrophenol	ND	9.43		"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	9.43		"	"	"	"	"	"	
Di-n-octyl phthalate	ND	9.43		"	"	"	"	"	"	
Pentachlorophenol	ND	9.43		"	"	"	"	"	"	
Phenanthrene	ND	9.43		"	"	"	"	"	"	
Phenol	ND	9.43		"	"	"	"	"	"	
Pyrene	ND	9.43		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	9.43		"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	9.43		"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.43		"	"	"	"	"	"	
Surrogate: 2-FBP	71.8 %	41-129				"	"	"	"	
Surrogate: 2-FP	61.5 %	18-124				"	"	"	"	
Surrogate: Nitrobenzene-d5	74.2 %	44-124				"	"	"	"	
Surrogate: Phenol-d6	60.2 %	25-122				"	"	"	"	
Surrogate: p-Terphenyl-d14	47.5 %	10-132				"	"	"	"	
Surrogate: 2,4,6-TBP	66.3 %	19-132				"	"	"	"	

North Creek Analytical - Bothell

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

Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

LMW-8-0206 (B6B0442-01) Water **Sampled: 02/21/06 13:00** **Received: 02/21/06 14:46**

Bicarbonate Alkalinity	191	5.00	mg/L as CaCO3	1	6C03054	03/03/06	03/03/06	SM 2320B		
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"		
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"		
Total Alkalinity	191	5.00	"	"	"	"	"	"		
Cyanide (weak acid dissociable)	ND	0.0100	mg/l	"	6C05006	03/05/06	03/06/06	SM4500-CN I Mod		
Cyanide (total)	ND	0.0100	"	"	6C03075	03/03/06	03/03/06	EPA 9010B Mod		
Nitrate-Nitrogen	ND	0.0100	mg/l as N	"	6B22065	02/22/06	02/22/06	EPA 353.2		

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.R273 Project Manager: Douglas Morell	Reported: 03/23/06 12:08
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Miscellaneous Physical/Conventional Chemistry Parameters
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

LMW-8-0206 (B6B0442-01) Water Sampled: 02/21/06 13:00 Received: 02/21/06 14:46

Silica (SiO ₂)	16.2	5.00	mg/l	25	6B24044	02/24/06	02/24/06	SM 4500-Si D		
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North Creek Analytical - Bothell

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Project: Landsburg Mine
 Project Number: 923-1000-002.R273
 Project Manager: Douglas Morell

Reported:
 03/23/06 12:08

Anions per EPA Method 300.0
North Creek Analytical - Portland

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW-8-0206 (B6B0442-01) Water Sampled: 02/21/06 13:00 Received: 02/21/06 14:46									
Chloride	1.83	0.500	mg/l	1	6020982	02/22/06	02/22/06	EPA 300.0	
Fluoride	ND	0.500	"	"	"	"	"	"	
Sulfate	1.43	1.00	"	"	"	"	"	"	

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.

Kortland Orr, PM



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21 April 2006

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

Enclosed are the results of analyses for samples received by the laboratory on 02/16/06 18:40-02/21/06 14:46. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kortland Orr
PM



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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.R273
 Project Manager: Douglas Morell

Reported:
 04/21/06 09:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-11-0206	B6B0364-01	Water	02/15/06 16:30	02/16/06 18:40
P-2-0206	B6B0364-03	Water	02/16/06 13:50	02/16/06 18:40
LMW-9-0206	B6B0431-03	Water	02/20/06 14:45	02/20/06 17:20

North Creek Analytical - Bothell

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Environmental Laboratory Network



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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.R273 Project Manager: Douglas Morell	Reported: 04/21/06 09:44
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Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW-11-0206 (B6B0364-01) Water Sampled: 02/15/06 16:30 Received: 02/16/06 18:40										
Sulfide	5.60	4.00	20.0	mg/l	1	6B20075	02/20/06	02/20/06	EPA 9030B	J
P-2-0206 (B6B0364-03) Water Sampled: 02/16/06 13:50 Received: 02/16/06 18:40										
Sulfide	7.60	4.00	20.0	mg/l	1	6B20075	02/20/06	02/20/06	EPA 9030B	J
LMW-9-0206 (B6B0431-03) Water Sampled: 02/20/06 14:45 Received: 02/20/06 17:20										
Sulfide	8.40	4.00	20.0	mg/l	1	6B27038	02/27/06	02/27/06	EPA 9030B	J

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.R273 Project Manager: Douglas Morell	Reported: 04/21/06 09:44
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6B20075: Prepared 02/20/06 Using General Preparation											
Blank (6B20075-BLK1)											
Sulfide	ND	4.00	20.0	mg/l							
LCS (6B20075-BS1)											
Sulfide	112	4.00	20.0	mg/l	124		90.3	75-125			
Duplicate (6B20075-DUP1)						Source: B6B0364-01					
Sulfide	6.00	4.00	20.0	mg/l		5.60			6.90	30	J
Matrix Spike (6B20075-MS1)						Source: B6B0364-01					
Sulfide	108	4.00	20.0	mg/l	124	5.60	82.6	47-120			
Batch 6B27038: Prepared 02/27/06 Using General Preparation											
Blank (6B27038-BLK1)											
Sulfide	ND	4.00	20.0	mg/l							
LCS (6B27038-BS1)											
Sulfide	102	4.00	20.0	mg/l	107		95.3	75-125			
Duplicate (6B27038-DUP1)						Source: B6B0431-03					
Sulfide	7.20	4.00	20.0	mg/l		8.40			15.4	30	J
Matrix Spike (6B27038-MS1)						Source: B6B0431-03					
Sulfide	101	4.00	20.0	mg/l	107	8.40	86.5	47-120			

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.R273 Project Manager: Douglas Morell	Reported: 04/21/06 09:44
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Notes and Definitions

- J Estimated value.
- 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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Kortland Orr, PM

North Creek Analytical, Inc.
Environmental Laboratory Network

MEMORANDUM

TO: Project File; Landsburg Mine
FR: Tom Stapp; Project Chemist, Validator 
RE: DATA VALIDATION STATUS ON February, 2006 WELL SAMPLING LABORATORY DATA

DATE: March 27, 2006
OUR REF: 923-1000.002 ph R273

The following data packages submitted by North Creek Analytical Laboratory were validated by Golder personnel using industry standard *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic and Organic Data Review*:

- B6B0364,
- B6B0393,
- B6B0431, and
- B6B0442.

Checklists are included in the project file and identified as 'Organic Data Validation Summary' and 'Inorganic Data Validation Summary'. The checklists present hand-written entries commenting on elements of the data validation process to establish the quality of analytical precision, accuracy, representativeness, completeness and comparability (PARCC parameters) of the data. The data validation checklists for Organic analysis and Inorganic analyses present 'qualification' applied to specific samples and analytical results. Qualifiers applied are summarized on the first page of each checklist for the specific quality control or procedural deficiency as noted. The analytical results as presented are accepted for their intended use, with the exception of those qualifications applied as a consequence of the data validation process.

INORGANIC DATA VALIDATION SUMMARY

PROJECT: 923-1000.002/R273	SITE: LANDSBURG MINE
LABORATORY: N. CREEK ANALYTICAL	SDG: (A) B6B0364, (B) B6B0393 (C) B6B0431
SAMPLES/MATRIX/ANALYSES: See Attached List & Chain of Cust.	
Alkalinity - SM 2320B	SiO ₂ - SM 4500-Si
NH ₃ -N - EPA 350.3	Cl, F, SO ₄ - EPA 300.0
Ferric/Ferrous Fe - SM 3500	
NO ₂ /NO ₃ -N + Species - EPA 353.2	

⑥

Sulfide - EPA 9030-B
TKN - EPA 351.2
DATA ASSESSMENT SUMMARY

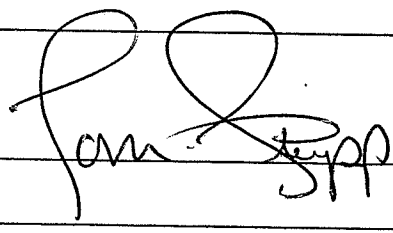
REVIEW ITEM	ICP 6010/6020	AA	HG EPA 7470A	EPA 9010 B CYANIDE SM-4500	OTHER
1. Data completeness	① ✓ ② ✓		③ ✓	④ ✓ ⑤ ✓	⑥ ✓
2. Holding Times	○		○	○	⊗
3. Calibration	—		—	—	—
4. Blanks	○		○	○	○
5. ICS	—		—	—	—
6. LCS	○		○	○	○
7. Duplicate RPD	○		○	○	⊗ SKM8
8. Spike Recovery	○		○	○	○
9. MSA	—		—	—	—
10. Other QC	—		—	—	—
11. Field Duplicates	—		—	—	—
12. Result Verification	—		—	—	—
13. Overall Assessment	○		○	○	○

0 = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems but do not affect data.

DATA PACKAGES:

- ① B6B0364
- ② B6B0393
- ③ B6B0431
- ④ B6B0442

Comments/Qualified Results: ~~1) (A) results qual. (J) for bicarb Alkalinity. No Qual.~~
 2) (C) Fe²⁺, Fe³⁺ qualif. (J) on LMW-9, P-2, & LMW-2; Alkalinity RE-ANALYSIS out of HOLD TIME, Results qualif. (J) Original results are accepted. — SDG (A).
 7) SDG (A) Bicarb. Alk out of RPD - Sample LMW-9 & P-2 Qual. (J).

Validated by: 
 Reviewed by: _____

Date: March 22, 2006
 Date: _____

INORGANIC DATA VALIDATION SUMMARY

✓ - Acceptable
 x - Not Required

Acceptable
 Yes / No

1. Data package completeness (check if present)

- ✓ Case narrative
- ✓ Chain of custody
- ✓ Sample Results
- x ICV/CCV Results
- ✓ Blank Results
- x ICP Interference Check Results
- ✓ Spike Recovery Results
- ✓ Duplicate Results
- ✓ LCS Results
- x Standard Addition Results
- x ICP Serial Dilution

- ✓ Instrument Det. Limits
- x ICP Correction Factors
- ICP Linear Ranges
- Preparation Logs
- Analysis Run Logs
- ICP Raw Data
- GFAA Raw Data
- Hg Raw Data
- Cyanide Raw Data
- Other

NH₃-N — 28 DAY
 TKN — 28 DAY
 NO₂ 48 Hr / NO₃ 28 DAY
 NO₂NO₃-N — 28 DAY
 SiO₂ — 28 DAY
 Cl, SO₄, F — "
 ALKALIN. — 14 DAY
 Fe³⁺ Fe²⁺ — ASAP
 Sulfide — 28 DAY
 CN — " "

Comments/Qualified Results:

- (B) TKN not provided ~~FWET CHEM = ?~~ Fe²⁺ Fe³⁺ SO₂ — No Qual. ~~TKN~~
- (C) — No Qual.
- (D) — No Qual.

2. Holding times (check all that apply)

- ICP/GFAA metals completed in <6 mos from collection
- Mercury analyzed in <28 days from collection
- Cyanide completed in 14 days from collection

✓
 see *
 and 8

Comments/Qualified Results:

- (A) 6010/6020, Hg, Alk out for Reanalysis, SiO₂, Cl, SO₄, Fe species, NO₂/NO₃, Sulfide, TKN, (X) — Both Smples
- (B) 6010/20, Hg, NO₂, CN, Alk, SiO₂, Anions
- (C) 6010/20, Hg, Alk, NH₃, CN, Fe²⁺, Fe³⁺, TKN, SO₂, NO₂, NO₃ * — Assoc. results qualif. (J/UJ). SiO₂, Anions
- (D) Metals, Hg, Alk, CN, NO₂, SiO₂, Anions — Acceptable.

3. Calibrations (check all that apply) NA

- ICV/CCV %R for ICP/AA, 90%-110%, results acceptable
- ICV/CCV %R for ICP/AA, 75%-89% or 111%-125%, results estimated (J/UJ)
- ICV/CCV %R for ICP/AA, <75% or >125%, reject positive results (R)
- ICV/CCV %R 80-120 for Hg, results acceptable
- ICV/CCV %R for Hg, 65%-79% or 121%-135%, results estimated (J/UJ)
- ICV/CCV %R for Hg, <65% or >135%, reject positive results (R)
- ICV/CCV %R 85-115 for Cyanide, results acceptable
- ICV/CCV %R 70-84% or 116-130%, results estimated (J/UJ)
- ICV/CCV %R <70% or >130%, reject positive results (R)

Comments/Qualified Results:

Data Not provided, Not Evaluated.

INORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

4. Blanks (check all that apply) Yes No

____ Detects reported in ICB/CCB, list: _____

____ Detects in preparation blanks, list: _____

____ Detects in field blanks, list: _____

Qualify as undetected (U) all sample concentrations $\leq 5X$ any associated blank concentrations.

Comments/Qualified Results: (A) 6020/6010 ✓ $\text{NO}_{2,3}$, Fe^{23} , CN , TKN , CN , Alk , SiO_2 , Anions ✓
(B) 6010/20 ✓ Hg , NO_2 , NO_3 , CN , Alk , SiO_2 , Anions ✓
(C) 6010/20 ✓ Hg , Fe^{3+} , NO_2 , NO_3 , NH_3 , TKN , SO_2 , CN , Alk , SiO_2 , Anions ✓
(D) 6010/20 ✓ Hg , NO_3 , Alk , CN , SiO_2 , Anions ✓

5. Interference Checks (check all that apply) NA

- ____ ICS A/B Recoveries Acceptable
- ____ Al, Ca, Fe, Mg sample concentrations > ICS concentrations
- ____ ICS %R > 120%, results > IDL estimated (J)
- ____ ICS %R 50-79%, results > IDL estimated (J)
- ____ ICS %R 50-79%, results < IDL estimated (UJ)
- ____ ICS %R < 50%, results > IDL and < IDL rejected (R/UR)

Comments/Qualified Results: Not provided, Not evaluated.

6. Laboratory Control Samples (check all that apply) Yes No

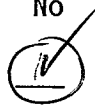
- ____ LCS %R 80-120
- ____ LCS %R 50-79% or > 120%, results > IDL estimated (J)
- ____ LCS %R 50-79% and results < IDL estimated (UJ)
- ____ LCS %R < 50% and all results rejected (R/UR)

Comments/Qualified Results: (A) - LCS ✓ 6010/6020 ✓ Fe^{23} , $\text{NO}_{2,3}$, SO_2 , SiO_2 , CN , Alk , TKN , Anions ✓
(B) 6010/20 ✓ Hg , NO_2 , CN , Alk , SiO_2 , Anions ✓
(C) 6010/20 ✓ Hg , Fe^{3+} , NO_2 , NH_3 , TKN , SO_2 , CN , Alk , SiO_2 , Anions ✓
(D) 6010/20 ✓ Hg , NO_3 , Alk , CN , SiO_2 , Anions - Accept.

INORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

7. Duplicate (check all that apply)



- Duplicate RPD $\leq 20\%$ for waters ($\leq 35\%$ for soils) for results $> 5X$ CRDL
- Duplicate range is within $\pm CRDL$ ($\pm 2xCRDL$ for soils) for results $< 5X$ CRDL

Comments/Qualified Results: ~~(A) 6010 Dup except Bicarb AIK RPD out, assoc. detects qual. (J) Reanalysis OK. NO QUAL. SiO₂, Anions~~
 (B) Mn out, Sb out ; Hg, NO₂, CN, AIK, SiO₂, Anions
 (C) 6010/20, Hg, Fe³⁺, NO₂, NO₃, TKN, SO₃, CN, AIK, SiO₂, Anions
 (D) Hg, 6010/6020, AIK, CN, SiO₂, Anions - Acceptable

8. Spike Recovery (check all that apply)



- Spike %R with 75-125%
- Spike %R 30-74%, $> 125\%$, results $> IDL$ estimated (J)
- Spike %R 30-74% results $< IDL$ estimated (UJ)
- Spike %R $< 30\%$, results $< IDL$ rejected (UR)
- Field blank used for spike analysis

Comments/Qualified Results: ~~(A) Non assoc. Spk samples: 6010/6020, Hg, Fe²³, NO₂₃, SiO₂, Anions~~
 (B) 6010/20 Non Assoc., Hg, NO₃, CN, SiO₂, Anions
 (C) 6010/20, Hg, Fe³⁺, NO₂, NO₃, TKN, SO₃, CN, SiO₂, Anions
 (D) Hg, 6010/20, NO₃, CN, SiO₂, Anions - Acceptable

9. GFAA Performance

NA

- Duplicate injection RSD $< 20\%$
- Duplicate injection RSD $> 20\%$, results $> CRDL$ estimated (J)
- Analytical spike %R 85-115%
- Analytical spike %R 40-85%, results $> IDL$ estimated (J)
- Analytical spike %R 10-40%, results $< IDL$ estimated (UJ)
- Analytical spike %R $< 10\%$, results $< IDL$ rejected (R)

Comments/Qualified Results: Not Applicable

INORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

10. Other QC NA

Comments/Qualified Results: Not Applicable

11. Field Duplicates NA

Field duplicate RPD \leq 20% (\leq 35% for soils)

Comments/Qualified Results: Not provided & not evaluated.

12. Result Verification NA

All results supported in raw data

Comments/Qualified Results: Raw data not provided.

13. Overall Assessment ✓

Comments/Qualified Results:

ORGANIC DATA VALIDATION SUMMARY

✓ Acceptable
x - Not required

Acceptable
Yes/No

1. Data Completeness (check if present)

- Case narrative
- Chain of Custody
- Sample Analysis Request
- Sample Results
- Detection Limits
- GC/MS Tuning
- Initial Calibration Data
- Continuing Calibration Data

- Blank Results
- Surrogate Results
- MS/MSD Results
- Internal Standards Performance
- Raw Data
- Sample Preparation Data
- Standards Preparation Data

- Ⓐ B6B0364
- Ⓑ B6B0393
- Ⓒ B6B0431
- Ⓓ B6B0442

Comments/Action Taken: Ⓐ NWTPH-GAS not on CofC. TPH-HCID on Pz, not LMW-II
Lab explains Non-sufficient sample. Ⓑ HCID GC not provided OK

2. Holding Times (check all that apply)

- Unpreserved VOA samples analyzed in 7 days from collection
- Preserved VOA samples analyzed in 14 days from collection
- BNA samples extracted in 7 days (14 days soils) from collection
- BNA extracts analyzed in 40 days from extraction
- Pest/PCB samples extracted in 7 days (14 days soils) from collection
- Pest/PCB extracts analyzed in 40 days from extraction

Qualify as estimated (J/UJ) all results analyzed past the holding time limits listed above but within 2x the limit. Qualify detects as estimated (J) and non-detects unusable (UR) for results analyzed greater than 2x the above limits.

Comments/Qualified Results: Ⓐ ✓, Ⓑ ✓, Ⓒ ✓, Ⓓ ✓

3. GC/MS Tuning

NA

- GC/MS tuning performed
- GC/MS tuning within control limits
- GC/MS tuning outside control limits (qualify R/UR)

Comments/Qualified Results: Information not provided

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

4. Instrument Performance NA

- DDT Retention Time Acceptable (packed columns) / Resolution Acceptable (All Columns) [if no, R detects]
- Standard Checks within Retention Time Window [if no, check against expanded windows and if outside, qualify R/UR]
- DDT and/or Endrin Breakdowns > 20% (J/UR DDT and Endrin, NJ all breakdown product hits)
- DBC, TCMX or DCBP retention time checks within SOW limits (if no, R/UR)

Comments/Qualified Results: Not evaluated, Not provided.

5. Initial and Continuing Calibration NA

GC/MS Data

- Initial calibration performed
- Initial calibration RRFs ≥ 0.05 for all compounds (if no, J/UR)
- Initial calibration RSDs $\leq 30\%$ for all compounds (if no, J/UJ)
- Continuing calibration performed
- Continuing calibration RRFs ≥ 0.05 for all compounds (if no, J/UR)
- Continuing calibration %Ds $\leq 25\%$ for all compounds (if no, J/UJ)

Pesticide/PCB data

- RSD $\leq 10\%$ for performance checks (if no, J detects)
- All standards analyzed prior to sample analysis, confirmation standards analyzed at proper frequency
- Continuing calibration %D $\leq 15\%$ for quantitation ($\leq 20\%$ for confirmation) [if no, J all detects]

Comments/Qualified Results: Not provided, Not evaluated.

6. Blanks

- Method blanks analyzed
- Common Laboratory Contaminants Detected
 - Methylene chloride
 - Acetone detected
 - Phthalates detected (list or attach summary sheet)
 - TICs detected (list or attach summary sheet)
- Qualify sample results < 10x above as U at SQL
- Non-common Laboratory Contaminants
 - Other TCL compounds detected (list or attach summary sheet)
- Qualify sample results < 5x above as U at SQL

Comments/Qualified Results: (A) Acid, Bx, Pest, VOA, SVOA (biszeth Hexphth) No qual.
(B) as with previous NOQUAL. (C) Acceptable (D) Acid, Pest,
PCB, VOA, SVOA — Acceptable.

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

7. Surrogates ✓

Note: Surrogate limits apply if at least one volatile or pesticide/PCB surrogate is out of specification and at least two semivolatile surrogates are out of specification.

- Surrogates analyzed
- Surrogate recoveries within method control limits
- Surrogate recoveries above method control limits (J detects only)
- Surrogate recoveries below method control limits but $\geq 10\%$ (J/UJ)
- Surrogate recoveries below 10% (J/UR)

(A) 8081, 8082, 8260, 8270, HCID ; (B) As with previous ; (C) as with previous ; (D) Accept

8. Matrix Spike/Matrix Spike Duplicate ✓

- MS/MSD analyzed
- MS/MSD recoveries within method control limits
- MS/MSD recoveries above method control limits (J detects only)
- MS/MSD recoveries below method control limits but $\geq 10\%$ (J/UJ)
- MS/MSD recoveries below 10%, and surrogates are out (J/UR)

Comments/Qualified Results: (A) LCS/LCSD, RPD-HCID ; Pest, RPD ; PCB, RPD ; VOA-LCS/D, RPD ; SVOA/LCS/D, RPD ; Eth/Meth - LCS/D, RPD ; (B) Pest, PCB, VOA, SVOA ; (C) Pest, LCS/D, PCB, LCS/D, VOA, LCS/D, MS, SVOA, LCS/D, MS, HCID, Eth, Meth - RPD expanded - No Qualif. see Sec. 15

9. Internal Standards Performance NA

- Internal standards added to all samples and QC
- Internal standard areas within control limits
- Internal standard areas outside control limits but greater than 10% (J/UJ)
- Internal standard areas are zero or less than 10% (J/UR)
- Internal standard RTs within ± 30 second windows (if no, J/UJ)

Comments/Qualified Results: Not provided, Not evaluated.

10. Compound Identification NA

- Library search data provided for positive results (if no and data is required, request from the laboratory)
- Positive results within RT criteria for dual column confirmation (Pesticide/PCB data only) (if no, qualify detects as U)
- Compound ID within ± 0.06 RRT of standard (if no, qualify as J if spectral match okay)
- Mass spectral match acceptable (if no, qualify as R)

Comments/Qualified Results: Not evaluated

ORGANIC DATA VALIDATION SUMMARY

Acceptable
Yes No

11. Tentatively Identified Compounds (TIC) NA

- TIC's searched (10/20 largest non-Aldol VOA's/Semi-VOA's)
- TIC's identified properly
- TIC's present in blank and samples (qualify according to 5x rule)
- Common laboratory contaminants reported as TIC's (qualify the following as rejected [CO₂ (m/z 44), siloxanes (m/z 73), diethyl ether, hexane, freons, phthalates <100 ug/L or <4000 ug/Kg, cyclohexene derivatives, aldols or hydroxy ketones and hydroxy aldehydes])
- Qualify valid TICs as JN

Comments/Qualified Results: (A) Not presented ; (B) same ; (C) same ; (D) same

12. Result Verification NA

- All results supported in raw data *
- Transcription errors identified (note constituent(s) and changes below)
- Calculation errors identified (note constituent(s) and changes below)

Raw data was not provided for this Data Validation Task

Comments/Qualified Results: (A) No detects w/ except Methane ; (B) No detects ; (C) No detects ; (D) No detects

13. Detection Limits

- Sample quantitation limits (SQLs) meet the project requirements (note discrepancies below)

Comments/Qualified Results: Consistent with Method Limits as provided with Industry Standards.

14. System Performance

- Baseline anomalies noted which affect quantitation (J/UJ)
- High background MS levels noted which affect quantitation (J/UJ)
- Extraneous or coeluting peaks affecting quantitation (J/UJ)
- Poor resolution (J/UJ)
- Peak tailing/peak splitting affecting quantitation (J/UJ)

Comments/Qualified Results: SDGs: (A) B6B0364 ✓
(B) B6B0393 ✓
(C) B6B0431 ✓
(D) B6B0442 ✓

ORGANIC DATA VALIDATION SUMMARY

15. Overall Assessment

Comments/Qualified Results:

1) Eth/Meth - RPD criteria appears high. Check Method.
Do Not Know Hydrogen Method 40 CFR Part 60 Appdx A. Method 18

Section 8) cont.

SDGs: (A) (B) (C) &

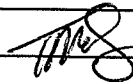
①. HCID - LCS detection amounts not provided, Recoveries are acceptable - No Qualif. applied.

① Pest - LCS/D ✓

PCB - " ✓ & RPD ✓

VOA - " ✓ ✓

SVOA - " ✓ " ✓

 3-22-2006

APPENDIX C
SAMPLE INTEGRITY DATA SHEETS (SIDS)

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA Sample ID LMW-#2 - 0206

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 2/17/06 Time _____

Media Water Station _____

Sample Type: grab time composite space composite

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

SWL - 7.48 ft bgs (bottom at 209.7 ft, 4-in casing)

Sand Pack Interval - NA


Packer Depth - 187.3 ft bgs (16 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
(1) 500ml	TAML	Poly	Nitric Acid
(3) 40ml	VOCs	VOA vials	HCl
(2) 1 liter	SVOCs	Amber	None
(2) 1 liter + (3) 40 ml	TPH / HClD	Amber + VOA	HCL
(2) 1 liter	PCBs/Pesticides	Amber	None
(1) 1 liter	"Wet" chemistry	Poly	None
(1) 500 ml	Cyanide	Poly	NaOH

Sampler (signature)  Date 2/17/06

Supervisor (signature) _____ Date _____

FIELD PARAMETERS SHEET

$$\left[25 \text{ psi} + \left(W_{\text{sp}} \cdot 0.43 \right) \right] = 1.1$$

Well ID LMW-2
 Date 2/17/06
 Time Begin Purge 1105
 Time Collect Sample 1150

Never above 200 psi

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	E _H
	1118	16 gal	7.12	629	10.6	0.51	0.63	40.5
	1130	32 gal	6.86	622	10.5	0.25	0.73	-14.5
	1142	48 gal	6.84	612	10.5	0.20	0.73	-33.7
Final Reading post sample			6.92	626	10.5	0.21	0.74	-40.6

Comments:
 Flow established at 5 gal/4 min or 1.25 gal/min
 Strong sulphurous odor from purge.

Sampler's Initials DA

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA Sample ID LMW-4 - 0206

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 _____ Time _____

Media Water Station _____

Sample Type: grab time composite space composite

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

SWL - ~~6.03~~^{7.48} ft bgs (bottom at 38.1 ft, 4-in casing) (5.5 gal/casing vol)

Sand Pack Interval - ~~24.8~~^{18.9 - 20.9} to 38.9 ft bgs (6.9 gal/sandpack vol) 11.7


Packer Depth - ~~NA~~ 187.3 (12.4 gal/total well vol) 1.32

Sample Description _____ 14 gal

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

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
(1) 500ml	TAML	Poly	Nitric Acid
(3) 40ml	VOCs	VOA vials	HCl
(2) 1 liter	SVOCs	Amber	None
(2) 1 liter + (3) 40 ml	TPH / HCID	Amber + VOA	HCL
(2) 1 liter	PCBs/Pesticides	Amber	None
(1) 1 liter	"Wet" chemistry	Poly	None
(1) 500 ml	Cyanide	Poly	NaOH

Sampler (signature)  Date 2/17/06

Supervisor (signature) _____ Date _____

FIELD PARAMETERS SHEET

Well ID LMW-4

Date 2/17/06

Time Begin Purge 1230

Time Collect Sample 1310

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	E _H
	1239	15 gal	7.08	670	10.6	0.24	0.53	200.3
	1248	30 gal	7.07	670	10.6	0.27	0.48	-41.8
	1257	45 gal	7.07	669	10.6	0.20	0.47	-104.2
Post Sample			7.07	666	10.6	0.21	0.41	-103.8

Comments:
 Flow calculated at 5 gal / 3 min or 1.67 gal / min
 Strong sulphurous odor.

Sampler's Initials 

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA Sample ID LMW-5 - 0206

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 _____ Time _____

Media Water Station _____

Sample Type: grab time composite space composite

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

SWL - 12.99 ft bgs (bottom at 241.8 ft, 4-in casing)

Sand Pack Interval - NA

Packer Depth - 222.11 ft bgs (14 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
(1) 500ml	TAML	Poly	Nitric Acid
(3) 40ml	VOCs	VOA vials	HCl
(2) 1 liter	SVOCs	Amber	None
(2) 1 liter + (3) 40 ml	TPH / HCID	Amber + VOA	HCL
(2) 1 liter	PCBs/Pesticides	Amber	None
(1) 1 liter	"Wet" chemistry	Poly	None
(1) 500 ml	Cyanide	Poly	NaOH

Sampler (signature)  Date 2/17/06

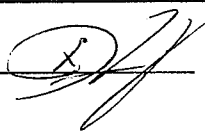
Supervisor (signature) _____ Date _____

FIELD PARAMETERS SHEET

Well ID LMW-5
Date 2/17/06
Time Begin Purge 1413
Time Collect Sample 1445

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	E_H
	1424	15	7.17	554	10.8	0.14	0.45	-75.8
	1430	15	7.09	564	10.7	0.09	0.60	-62.3
	1436	15	7.05	568	10.7	0.10	0.44	-51.7
Post Sample	1455		7.04	577	10.7	0.09	0.47	-59.8

Comments:
Flow calculated at 5 gal/3 min, or 1.67 gal/min
Sulphurous odor.

Sampler's Initials 

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002
 Site Location Rovansdale WA Sample ID LMW-6
 Sampling Location GW monitoring well, end of dedicated tubing

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

Type of Sampler Dedicated pump - Grundfos

Date 2/20/06 Time _____

Media Water Station _____

Sample Type: grab time composite space composite

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

Total calculated well vol: 23.6 gal

Sample Description _____

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

See reverse

Aliquot Amount	Container	Preservation/Amount
<u>3 - 40 ml</u>	<u>VOA</u>	<u>VOA phial</u>
<u>1 - 500 mL</u>	<u>Metals</u>	<u>HDPE</u>
<u>2 - 1 L</u>	<u>TPH-HCID</u>	<u>Glass Amber</u>

Sampler (signature) [Signature] Date 2/20/06

Supervisor (signature) _____ Date _____

FIELD PARAMETERS SHEET

Well ID LMW-6

Date 2/20/06

Time Begin Purge 0926

Time Collect Sample 1015

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	Eh
	0940	23.6	7.75	170.3	9.5	0.72	3.94	45.6
	0954	47.2	7.34	168.2	9.5	1.19	3.08	41.8
	1008	71.8	7.21	169.4	9.5	0.44	1.31	20.0
Post sample			7.20	168.6	9.5	0.39	1.42	24.6

Comments:

Begin purge at 0926.
 Flow at 5 gal/3min or 1.67 gal/min
 Only a faint sulphurous odor.

Sampler's Initials [Signature]

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002
 Site Location Riversdale WA Sample ID LMW-7
 Sampling Location GW monitoring well, and of dedicated tubing

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

Type of Sampler Dedicated pump - Grundfos

Date 2/20/06 Time _____

Media Water Station _____

Sample Type: grab time composite space composite

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

Total calculated well vol: 23 gal

Sample Description _____

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

See reverse.

Aliquot Amount		Container	Preservation/Amount
3 - 40 ml	VOA	VOA phial	HCl
1 - 500 ml	Metal	HDPE	HNO ₃ (Filter)
2 - 1L	TPH-HCID	Glass Amber	HCl

Sampler (signature) [Signature] Date 2/20/06

Supervisor (signature) _____ Date _____

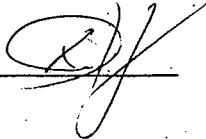
FIELD PARAMETERS SHEET

Well ID: LMW-7
 Date: 2/20/06
 Time Begin Purge: 1103
 Time Collect Sample: 1145

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	Eh
	1115	23	7.34	476	11.6	0.77	0.88	-152.2
	1127	46	7.22	483	11.6	0.79	0.48	-198.7
	1139	69	7.20	487	11.6	0.55	0.62	-223.3
Post sample			7.21	493	11.6	0.60	0.48	-233.3

Comments:

Begin purge at 1103
 Slight sulphurous odor.
 Flow at 5 gal/2.5 min or 2 gal/min

Sampler's Initials 

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA Sample ID LMW-8 -0206

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~~ Peristaltic pump

Date _____ Time _____

Media Water Station _____

Sample Type: grab time composite space composite

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

SWL - 3.12 ft bgs (bottom at 13 ft, 2-in casing) (1.7 gal/casing vol)

Sand Pack Interval - 6 to 13 ft (8-in hole) (4.3 gal/sandpack vol)


Packer Depth - NA (6 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
(1) 500ml	TAML	Poly	Nitric Acid
(3) 40ml	VOCs	VOA vials	HCl
(2) 1 liter	SVOCs	Amber	None
(2) 1 liter + (3) 40 ml	TPH / HClD	Amber + VOA	HCL
(2) 1 liter	PCBs/Pesticides	Amber	None
(1) 1 liter	"Wet" chemistry	Poly	None
(1) 500 ml	Cyanide	Poly	NaOH

Sampler (signature)  Date 2/21/06


Supervisor (signature) _____ Date _____

FIELD PARAMETERS SHEET

Well ID LMW-8
 Date 2/21/06
 Time Begin Purge 0955
 Time Collect Sample 1300

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	E _H
	1040	6.3	8.13	286	8.9	0.52	45.7	0.7
	1125	12.6	7.78	258	8.9	0.49	29.0	1.4
	1210	18.9	7.17	255	8.8	1.07	8.94	0.5
	1255	25.2	7.09	258	8.9	1.17	1.92	0.5

Comments:
 0940 Returning to well after draining it dry and pulling up silt on 2/17/06
 0945 DTW 3.05 ft below TOC. Very close to 3.11 ft on 2/13/06.
 0955 Begin purge with peristaltic pump.
 0957 Begin gauging flow rate
 1034 5 gal bucket full. Flow rate 5 gal / 37 min or 0.14 gal / min

Sampler's Initials 

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA Sample ID ~~PZ~~ L/MW-9

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 _____ Time _____

Media Water Station _____

Sample Type: grab time composite space composite

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

SWL – 98.81 ft bgs (bottom at 159 ft, 2-in casing) (10.2 gal/casing vol)

Sand Pack Interval – 143 to 159 ft (8-in hole) (9.7 gal/sandpack vol)

Packer Depth – NA (19.9 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
(1) 500ml	TAML	Poly	Nitric Acid
(3) 40ml	VOCs	VOA vials	HCl
(2) 1 liter	SVOCs	Amber	None
(2) 1 liter + (3) 40 ml	TPH / HCID	Amber + VOA	HCL
(2) 1 liter	PCBs/Pesticides	Amber	None
(1) 1 liter	"Wet" chemistry	Poly	None
(1) 500 ml	Cyanide	Poly	NaOH
(1) 500 ml	Nitrate / nitrite / ferrous iron / ferric iron		Unpreserved poly
(1) 1 liter	Ammonia / Kjeldahl nit.	Poly	H2SO4
(1) 500 ml	Sulfite	Poly	None
(1) 500 ml	Sulfide	Poly	NaOH/ZnAc
(3) 40 ml	Ethane/Ethene/Methane	VOA	HCl
Dissolved Hydrogen			

Sampler (signature)  Date 2/20/06

Supervisor (signature) _____ Date _____

FIELD PARAMETERS SHEET

Well ID LMW-9
 Date 2/20/08
 Time Begin Purge 1345
 Time Collect Sample 1450

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	E _H
	1350	20 gal	7.29	547	11.3	0.52	77.0	-124.4
	1355	30 gal	7.21	545	11.3	0.70	69.3	-273.6
	1400	30 gal	7.22	546	11.3	0.58	42.1	-285.9
	1405	40 gal	7.28	545	11.3	0.62	66.6	-288.0
	1415	60 gal	7.22	544	11.3	0.52	21.3	-244.1
	1425	80 gal	7.16	544	11.3	0.58	7.47	-265.5
	1435	100 gal	7.28	544	11.3	0.60	4.70	-282.9
	1445	120 gal	7.20	543	11.3	0.64	0.98	-277.9

Comments:
 Flow calculated at 5 gal/25 min or 2 gal/min
 Strong sulphurous odor
 Very turbid initially

Sampler's Initials [Signature]

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA Sample ID LMW-10

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 _____ Time _____

Media Water Station _____

Sample Type: grab time composite space composite

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

SWL – 0.24 ft bgs (bottom at 286 ft, 4-in casing)

Sand Pack Interval – 258 to 289 ft bgs


Packer Depth – NA

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
(1) 500ml	TAML	Poly	Nitric Acid
(3) 40ml	VOCs	VOA vials	HCl
(2) 1 liter	SVOCs	Amber	None
(2) 1 liter + (3) 40 ml	TPH / HCID	Amber + VOA	HCL
(2) 1 liter	PCBs/Pesticides	Amber	None
(1) 1 liter	"Wet" chemistry	Poly	None
(1) 500 ml	Cyanide	Poly	NaOH

Sampler (signature)  Date 2/20/06

Supervisor (signature) _____ Date _____

FIELD PARAMETERS SHEET

Well ID LMW-10

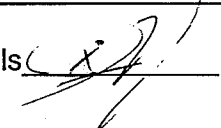
Date 2/20/06

Time Begin Purge 1045

Time Collect Sample 1245

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	E _H
	1200		8.89	293	9.6	1.56	1.09	-241.2
	1220		8.79	286	9.6	1.00	0.99	-282.6
	1240	~25 gal	8.76	284	9.6	0.91	0.92	-266.3

Comments:

Sampler's Initials 

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA Sample ID LMW-11-02066

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 2/15/06 Time _____

Media Water Station _____

Sample Type: grab time composite space composite

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

SWL – 156.68 ft bgs (bottom at 707 ft, ⁴/₂-in casing) (³⁶³93.55 gal/casing vol)

Sand Pack Interval – 688 to 707 ft (8-in hole) (^{9.2}11.54 gal/sandpack vol)

Packer Depth – NA (³⁷²105.09 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
(1) 500ml	TAML	Poly	Nitric Acid
(3) 40ml	VOCs	VOA vials	HCl
(2) 1 liter	SVOCs	Amber	None
(2) 1 liter + (3) 40 ml	TPH / HCID	Amber + VOA	HCL
(2) 1 liter	PCBs/Pesticides	Amber	None
(1) 1 liter	"Wet" chemistry	Poly	None
(1) 500 ml	Cyanide	Poly	NaOH
(1) 500 ml	Nitrate / nitrite / ferrous iron / ferric iron		Unpreserved poly
(1) 1 liter	Ammonia / Kjeldahl nit.	Poly	H2SO4
(1) 500 ml	Sulfite	Poly	None
(1) 500 ml	Sulfide	Poly	NaOH/ZnAc
(3) 40 ml	Ethane/Ethene/Methane	VOA	HCl
Dissolved Hydrogen			

Sampler (signature)  Date 2/16/06

Supervisor (signature) _____ Date _____

FIELD PARAMETERS SHEET

Well ID LMW-11
 Date 2/15/06
 Time Begin Purge 0900
 Time Collect Sample 1630

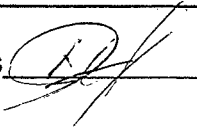
2006
 19-20-01

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	E _H
	1100	~275	8.35	534	11.2	—	4.85	321.6
	1150	~385	7.21	407	11.3	0.4	1.96	322.1
	1310	~550	7.18	394	11.3	0.13	2.21	200.3
	1335	~605	7.25	391	11.3	0.11	1.23	200.3
	1400	~660	7.25	391	11.3	0.10	4.09	200.3
	1425	~725	7.26	390	11.3	0.10	3.88	217.7
	1450	~780	7.26	389	11.3	0.10	1.62	218.3
~~~~~								
Follow-up on	1110	~140	7.61	374	11.3	0.22	—	145.1
2/16/06	1140	~170	7.16	349	11.4	0.11	0.97	70.1
	1215	~230	7.10	386	11.4	0.09	1.45	148.6
	<del>1315</del>	<del>~280</del>	<del>7.10</del>	<del>387</del>	<del>11.4</del>	<del>0.28</del>	<del>—</del>	<del>134.8</del>
Reading from bladder pump	1310		7.11	460	—	2.40		122.5

Comments:

Definite sulphurous odor to water. Slight effervescence in flow cell.  
 55 gal drum filling about every 19-20 min.

Completed sampling on 2/16/06 @ 1200

Sampler's Initials 

## SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA Sample ID P-2 - 0206

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 _____ Time _____

Media Water Station _____

Sample Type: grab time composite space composite

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

SWL - 6.07 ft bgs (bottom at 44 ft, 2-in casing) (6.5 gal/casing vol)

Sand Pack Interval - 39 to 44 ft (8-in hole) (3.1 gal/sandpack vol)

Packer Depth - NA (9.6 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
(1) 500ml	TAML	Poly	Nitric Acid
(3) 40ml	VOCs	VOA vials	HCl
(2) 1 liter	SVOCs	Amber	None
(2) 1 liter + (3) 40 ml	TPH / HClD	Amber + VOA	HCl
(2) 1 liter	PCBs/Pesticides	Amber	None
(1) 1 liter	"Wet" chemistry	Poly	None
(1) 500 ml	Cyanide	Poly	NaOH
(1) 500 ml	Nitrate / nitrite / ferrous iron / ferric iron		Unpreserved poly
(1) 1 liter	Ammonia / Kjeldahl nit.	Poly	H2SO4
(1) 500 ml	Sulfite	Poly	None
(1) 500 ml	Sulfide	Poly	NaOH/ZnAc
(3) 40 ml	Ethane/Ethene/Methane	VOA	HCl

Dissolved Hydrogen

Sampler (signature)  _____

Date 2/16/06

Supervisor (signature) _____

Date _____

FIELD PARAMETERS SHEET

Well ID P-2  
 Date 2/16/06  
 Time Begin Purge 1505  
 Time Collect Sample 1550

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	E _H
	1511	11 gal	7.11	501	11.1	0.32	1.60	102.5
	1516	21 gal	7.02	501	11.1	0.35	1.41	87.2
	1521	31 gal	6.95	502	11.1	0.31	1.53	74.0
	1526	41 gal	6.92	501	11.1	0.29	1.48	65.0
Final Reading	1600	65 gal	6.97	507	11.2	0.31	1.18	200.3

Comments:

Sampler's Initials *[Signature]*