Golder Associates Inc.

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Golder Associates

February 20, 2007

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 – DECEMBER, 2006

Dear Mr. Kombol:

Golder Associates Inc. (Golder) completed an interim groundwater monitoring event at the Landsburg Mine Site during December, 2006. Groundwater samples were collected from monitoring wells LMW-2, LMW-3, LMW-4, LMW-5, LMW-6, LMW-7, LMW-8, LMW-9, LMW-10, and LMW-11 (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 wells LMW-3 and LMW-5 are completed to monitor the shallow (~ 40 feet depth) and deeper zone (~ 250 feet depth), respectively, within the Rogers coal seam at the south end of the mine. Monitoring well LMW-8 is receiving groundwater before discharge from Portal 3 and the mine access incline 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.

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

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- Analyses of groundwater for volatile organic compounds (EPA Method 8260B), priority pollutant metals (EPA Method 6000/7000 Series), and a petroleum hydrocarbon identification scan (HCID).

The attached Appendix A presents the laboratory analytical reports for all analyses. Sampling activities were documented on Sample Integrity Data Sheets (SIDS). Copies of the completed SIDS are provided in Appendix B. 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 until delivery to the laboratory. All groundwater samples from monitoring wells were transported under chain-of-custody procedures to Test America Corporation 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 volatile organic compound or petroleum hydrocarbon in any of the groundwater samples, except for carbon disulfide in LMW-11at 0.19 µg/L (J qualified). The concentration of carbon disulfide in this groundwater sample is more than 4000 times lower than the MTCA groundwater cleanup level of 800 µg/L. Carbon disulfide is used in laboratory sample preparation and is a common analytical laboratory contaminant. Since carbon disulfide was never detected in any groundwater sample at the Landsburg Mine site in the past, carbon disulfide is not considered an issue at the Site, unless this compound becomes regularly detected at much higher concentrations. The method reporting limits (MRLs) and method detection limits (MDLs) for all compounds were at or below acceptable concentrations under the Model Toxics Control Act (MTCA). The only parameters detected in groundwater samples (except the carbon disulfide) where metals that are naturally occurring, which are summarized in Table 2.

Several groundwater samples from site wells contained iron and manganese concentrations above State of Washington secondary drinking water levels (SMCLs) of 0.3µg/L and 0.05µg/L, respectively, which are not health-based standards, but are protective of aesthetic qualities of water. Iron and Manganese are naturally occurring metals that are typically associated with groundwater from coal mines. The concentrations of iron and manganese detected during the December, 2006 sampling event are similar to concentrations detected during the RI (Golder, 1996)[1] and the Interim Groundwater Sampling events previously conducted at the site.

The groundwater sample from the new deep well (LMW-11) contained total (unfiltered) arsenic at a concentration of 9.8 µg/L, which is just below the Washington State primary drinking water MCL of 10 µg/L, but higher than the MTCA groundwater cleanup level of 5 µg/L. The archived filtered sample for metals from LMW-11 was authorized for analysis and contained arsenic at 6.1 µg/L. Arsenic is also a naturally occurring metal commonly detectable in groundwater and the unfiltered

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

sample contain suspended solid particles probably form the coal mine residues that add arsenic to the water sample. The MTCA groundwater cleanup level is based on groundwater background levels in the State. Since the LMW-11 groundwater samples contain arsenic in both the total and filtered samples that are 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 organics compounds associated with fuels have been detected from newly installed monitoring wells during previous groundwater monitoring events, but were not detected in the December 2006 sampling period. Groundwater monitoring results of LMW-10, after its installation, detected trace concentrations (<1 µg/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 and MTCA levels. The concentrations of the observed compounds showed a definitive decreasing trend in groundwater samples from wells LMW-10 and LMW-11 with time and were not detectable in the latest two sampling periods obtained in February 2006 and December 2006. The conclusion is that the 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 installation. Since the concentrations of these volatile organics have been steadily declining after well installation and became undetectable for the last two sampling periods, the source could not be from the waste materials disposed at the Landsburg Mine site.

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

cc : Landsburg POP Group
Jerome Cruz / Department of Ecology (2 copies)

DJM/se

TABLES

TABLE 1

Groundwater Elevation Data Collected December 6, 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	10:32 AM	11:15 AM	1:12 PM	11:23 AM	12:53 PM	10:55 AM	11:37 AM	1:30 PM	12:21 PM	11:08 AM	12:05 PM	1:26 PM	NA	NA
Measured to Top of PVC	ft bgs	141.10	141.38	6.36	11.32	8.32	12.87	25.32	225.76	3.28	98.68	0.00	156.56	5.94	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**	**618.13**	**611.37**	**645.43**	**610.94**	**645.40**	**607.01**	**545.75**	**643.69**	**645.31**	**618.87**	**645.31**	**645.43**	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

December 2006, Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2 12/14/2006	LMW-3 12/15/2006	LMW-4 12/14/2006	LMW-5 12/15/2006	LMW-6 12/14/2006	LMW-7 12/15/2006	LMW-8 12/15/2006	LMW-9 12/13/2006	LMW-10 12/13/2006	LMW-11 12/13/2006	Equipment Blank 12/15/2006	Trip Blank 12/15/2006	Trip Blank 12/14/2006
Field Parameter														
pH	stnd	6.88	7.73	6.89	6.86	6.89	7.06	7.03	6.98	8.63	7.32	NA	NA	NA
Conductivity	uS/cm	662	130.4	NA	370	180.1	370	124.3	527	348	491	NA	NA	NA
Dissolved Oxygen	mg/L	0.20	0.84	0.14	0.31	0.21	0.58	1.48	0.34	0.20	0.50	NA	NA	NA
Temperature	°C	11.2	11.7	10.8	11.1	10.4	13.2	9.9	12.8	9.9	10.2	NA	NA	NA
Turbidity	NTU	0.16	0.09	0.19	0.18	0.17	0.13	0.91	0.23	0.36	0.45	NA	NA	NA
Metals (Total)														
Aluminum	mg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA
Antimony	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	NA	NA
Arsenic	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.00166**	**0.00124**	0.001 U	0.001 U	**0.00979**	0.001 U	NA	NA
Arsenic (Filtered Sample)	mg/L	Not Anal.	Not Anal.	Not Anal.	Not Anal.	Not Anal.	Not Anal.	Not Anal.	Not Anal.	Not Anal.	**0.00613**	Not Anal.	NA	NA
Barium	mg/L	**0.188**	**0.0749**	**0.383**	**0.321**	**0.12**	**0.562**	**0.0332**	**0.309**	**0.0348**	**0.251**	0.01 U	NA	NA
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Calcium	mg/L	**120**	**36.6**	**118**	**97.4**	**28.1**	**63.4**	**36.9**	**86.4**	**7.28**	**60.9**	0.25 U	NA	NA
Chromium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
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	0.001 U	0.001 U	NA	NA
Copper	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.00197**	0.001 U	0.001 U	NA	NA
Iron	mg/L	0.15 U	0.15 U	**0.706**	**0.169**	**2.13**	**1.1**	**6.53**	**1.78**	**0.167**	**2.42**	0.15 U	NA	NA
Lead	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Magnesium	mg/L	**73.1**	**15.6**	**71.3**	**55.7**	**14.6**	**30.2**	**20.5**	**48.4**	**3.09**	**29.7**	0.5 U	NA	NA
Manganese	mg/L	**0.253**	**0.0482**	**0.208**	**0.276**	**0.0334**	**0.152**	**0.354**	**0.175**	0.01 U	**0.172**	0.01 U	NA	NA
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	NA	NA
Nickel	mg/L	**0.00286**	**0.00153**	**0.00272**	**0.00277**	0.001 U	**0.00164**	0.001 U	**0.00165**	0.001 U	**0.00161**	**0.00124**	NA	NA
Potassium	mg/L	**4.77**	2.0 U	**3.86**	**2.91**	2.0 U	**2.89**	2.0 U	**3.62**	2.0 U	**2.36**	2.0 U	NA	NA
Selenium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Silver	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.001 UJ**	0.001 U	NA	NA
Sodium	mg/L	**22.7**	**9.65**	**27.2**	**18**	**7.83**	**51.8**	**9.73**	**18.3**	**82**	**48.4**	0.25 U	NA	NA
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Vanadium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Zinc	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0168**	0.01 U	0.01 U	NA	NA
Volatile Organic Compounds														
Acetone	µg/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

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TABLE 2

December 2006, Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2 12/14/2006	LMW-3 12/15/2006	LMW-4 12/14/2006	LMW-5 12/15/2006	LMW-6 12/14/2006	LMW-7 12/15/2006	LMW-8 12/15/2006	LMW-9 12/13/2006	LMW-10 12/13/2006	LMW-11 12/13/2006	Equipment Blank 12/15/2006	Trip Blank 12/15/2006	Trip Blank 12/14/2006
Bromochloromethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Butanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Butylbenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.19 J**	1 U	1 U	1 U
Carbon tetrachloride	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1-Chlorohexane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorotoluene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chlorotoluene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromomethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2-Dichloropropane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

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TABLE 2

December 2006, Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2 12/14/2006	LMW-3 12/15/2006	LMW-4 12/14/2006	LMW-5 12/15/2006	LMW-6 12/14/2006	LMW-7 12/15/2006	LMW-8 12/15/2006	LMW-9 12/13/2006	LMW-10 12/13/2006	LMW-11 12/13/2006	Equipment Blank 12/15/2006	Trip Blank 12/15/2006	Trip Blank 12/14/2006
trans-1,3-Dichloropropene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
n-Hexanone	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isopropylbenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**0.62 J**	0.62
Naphthalene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
n-Propylbenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1,2-Tetrachloroethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
o-Xylene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total Xylenes	µg/L	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Hydrocarbon Identification														
Diesel Range	mg/L	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NA	NA
Gas Range	mg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	NA	NA
Heavy Fuel Oil	mg/L	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NA	NA
Insulating Oil	mg/L	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NA	NA

Golder Associates

TABLE 2

December 2006, Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2 12/14/2006	LMW-3 12/15/2006	LMW-4 12/14/2006	LMW-5 12/15/2006	LMW-6 12/14/2006	LMW-7 12/15/2006	LMW-8 12/15/2006	LMW-9 12/13/2006	LMW-10 12/13/2006	LMW-11 12/13/2006	Equipment Blank 12/15/2006	Trip Blank 12/15/2006	Trip Blank 12/14/2006
Kerosene Range	mg/L	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NA	NA
Lube Oil Range	mg/L	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NA	NA

Golder Associates

FIGURE

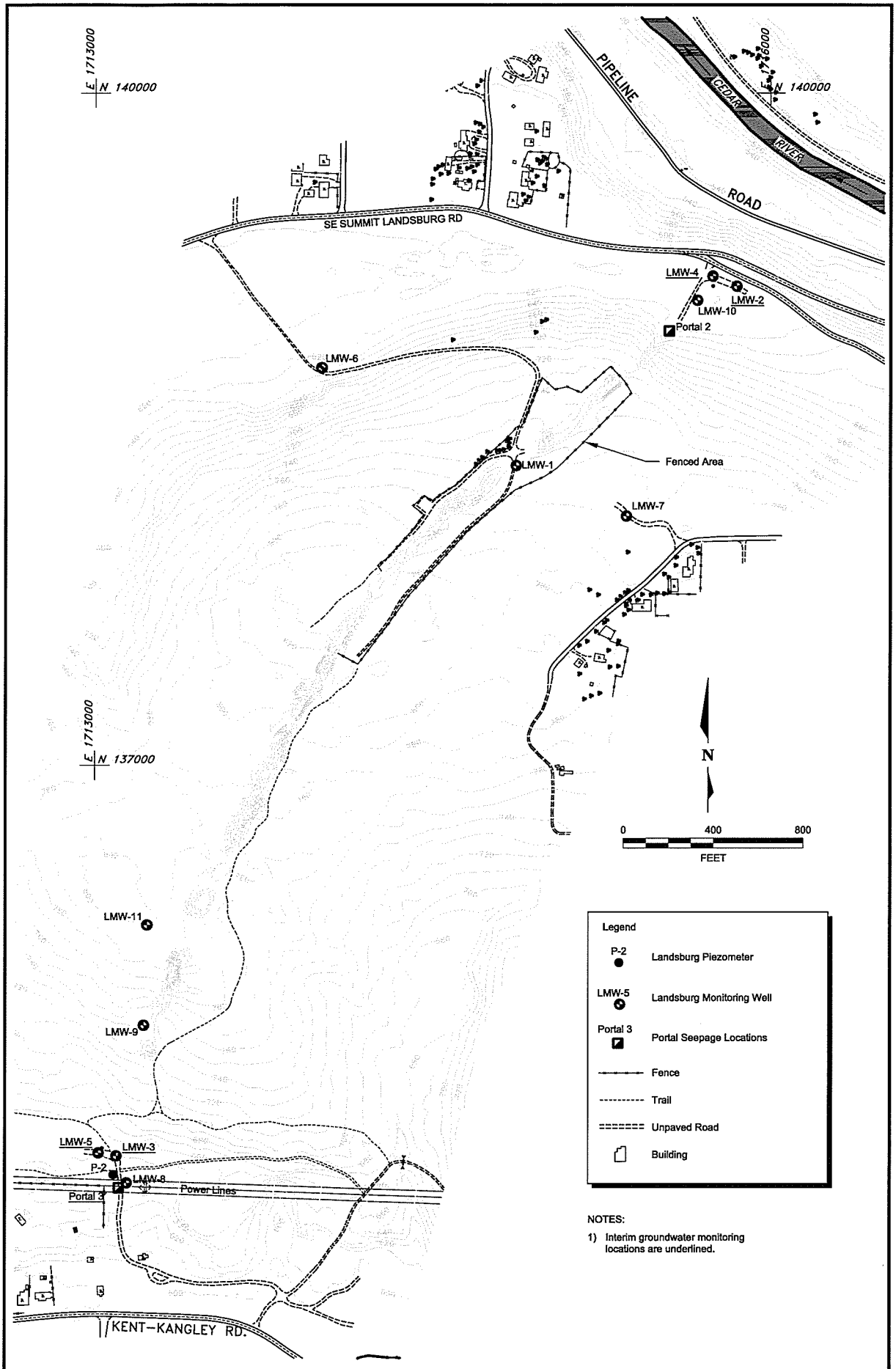

FIGURE 1
GROUNDWATER MONITORING LOCATIONS
PALMER/LANDSBURG MINE/WA

K:\CAD\Projects\1992\9231000\x002\R273\9231000002R273F01.dwg 01/26/2007, 13:50 Layout: Layout1

Golder Associates

APPENDIX A

LABORATORY ANALTYICAL REPORTS

TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

February 05, 2007

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 12/13/06 18:45. The following list is a summary of the Work Orders contained in this report, generated on 02/05/07 08:34.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
BPL0248	Landsburg Mine	Not Provided
BPL0267	Landsburg Mine	Not Provided
BPL0344	Landsburg Mine	Not Provided

TestAmerica - Seattle, WA

Kortland Orr, PM

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TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-11-1206	BPL0248-01	Water	12/13/06 08:15	12/13/06 18:45
LMW-10-1206	BPL0248-02	Water	12/13/06 11:15	12/13/06 18:45
LMW-9-1206	BPL0248-03	Water	12/13/06 14:40	12/13/06 18:45
LMW-2-1206	BPL0267-01	Water	12/14/06 11:00	12/14/06 14:15
LMW-4-1206	BPL0267-02	Water	12/14/06 12:10	12/14/06 14:15
LMW-6-1206	BPL0267-03	Water	12/14/06 09:15	12/14/06 14:15
TRIP BLANK	BPL0267-04	Water	12/14/06 14:15	12/14/06 14:15
LMW-3-1206	BPL0344-01	Water	12/15/06 12:05	12/18/06 09:40
LMW-5-1206	BPL0344-02	Water	12/15/06 13:45	12/18/06 09:40
LMW-7-1206	BPL0344-03	Water	12/15/06 10:00	12/18/06 09:40
LMW-8-1206	BPL0344-04	Water	12/15/06 13:10	12/18/06 09:40
EB-1206	BPL0344-05	Water	12/15/06 13:05	12/18/06 09:40
TRIP BLANK	BPL0344-06	Water	12/15/06 17:00	12/18/06 09:40

TestAmerica - Seattle, WA

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Analytical Case Narrative

TestAmerica - Seattle, WA

BPL0248

The wind storm that impacted most of the Seattle region, causing wide-spread damage and power outages, affected the operations of TestAmerica-Seattle. Emergency measures were taken immediately following the storm by laboratory staff to help safeguard the storage temperatures of the samples included in this report. Measures included procuring wet and dry ice for placement into our sample storage units, the use of generator power and the rental of a mobile refrigeration unit. Despite the best efforts of the laboratory, we were unable to maintain your samples below the recommended temperature of 6°C for the entire 36-hour power outage. During this time the refrigeration units that house samples slated for volatile analyses never exceeded a temperature of 9°C and the refrigeration units that store samples and extracts slated for inorganic/semivolatile analyses never exceeded a temperature of 16°C. The samples and analyses affected have been qualified in the report.

BPL0267

The wind storm that impacted most of the Seattle region, causing wide-spread damage and power outages, affected the operations of TestAmerica-Seattle. Emergency measures were taken immediately following the storm by laboratory staff to help safeguard the storage temperatures of the samples included in this report. Measures included procuring wet and dry ice for placement into our sample storage units, the use of generator power and the rental of a mobile refrigeration unit. Despite the best efforts of the laboratory, we were unable to maintain your samples below the recommended temperature of 6°C for the entire 36-hour power outage. During this time the refrigeration units that house samples slated for volatile analyses never exceeded a temperature of 9°C and the refrigeration units that store samples and extracts slated for inorganic/semivolatile analyses never exceeded a temperature of 16°C. The samples and analyses affected have been qualified in the report.

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TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0248-01 (LMW-11-1206)		**Water**			**Sampled: 12/13/06 08:15**					**A-01**
Gx Range Hydrocarbons	NWTPH-HCID	ND	-----	0.236	mg/l	1x	6L19022	12/19/06 09:49	12/21/06 18:54	
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(s): 2-FBP			*100%*		*50 - 150 %*	"			"	
Octacosane			*108%*		*50 - 150 %*	"			"	
BPL0248-02 (LMW-10-1206)		**Water**			**Sampled: 12/13/06 11:15**					**A-01**
Gx Range Hydrocarbons	NWTPH-HCID	ND	-----	0.236	mg/l	1x	6L19022	12/19/06 09:49	12/21/06 19:20	
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(s): 2-FBP			*95.3%*		*50 - 150 %*	"			"	
Octacosane			*108%*		*50 - 150 %*	"			"	
BPL0248-03 (LMW-9-1206)		**Water**			**Sampled: 12/13/06 14:40**					**A-01**
Gx Range Hydrocarbons	NWTPH-HCID	ND	-----	0.236	mg/l	1x	6L19022	12/19/06 09:49	12/21/06 19:46	
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(s): 2-FBP			*102%*		*50 - 150 %*	"			"	
Octacosane			*115%*		*50 - 150 %*	"			"	
BPL0267-01 (LMW-2-1206)		**Water**			**Sampled: 12/14/06 11:00**					**A-01**
Gx Range Hydrocarbons	NWTPH-HCID	ND	-----	0.236	mg/l	1x	6L19022	12/19/06 09:49	12/21/06 20:12	
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(s): 2-FBP			*97.0%*		*50 - 150 %*	"			"	
Octacosane			*111%*		*50 - 150 %*	"			"	

TestAmerica - Seattle, WA

Kortland Orr, PM

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TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0267-02 (LMW-4-1206)		**Water**			**Sampled: 12/14/06 12:10**					**A-01**
Gx Range Hydrocarbons	NWTPH-HCID	ND	-----	0.236	mg/l	1x	6L19022	12/19/06 09:49	12/21/06 20:38	
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(s): 2-FBP			*102%*		*50 - 150 %*	"			"	
Octacosane			*112%*		*50 - 150 %*	"			"	
BPL0267-03 (LMW-6-1206)		**Water**			**Sampled: 12/14/06 09:15**					**A-01**
Gx Range Hydrocarbons	NWTPH-HCID	ND	-----	0.236	mg/l	1x	6L19022	12/19/06 09:49	12/21/06 21:04	
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(s): 2-FBP			*103%*		*50 - 150 %*	"			"	
Octacosane			*113%*		*50 - 150 %*	"			"	
BPL0344-01 (LMW-3-1206)		**Water**			**Sampled: 12/15/06 12:05**					
Gx Range Hydrocarbons	NWTPH-HCID	ND	-----	0.238	mg/l	1x	6L20035	12/20/06 13:32	12/23/06 18:54	
Kerosene Range Hydrocarbons	"	ND	-----	0.600	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	-----	0.600	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	"	ND	-----	0.600	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	-----	0.600	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	-----	0.600	"	"	"	"	"	
Surrogate(s): 2-FBP			*105%*		*50 - 150 %*	"			"	
Octacosane			*105%*		*50 - 150 %*	"			"	
BPL0344-02 (LMW-5-1206)		**Water**			**Sampled: 12/15/06 13:45**					
Gx Range Hydrocarbons	NWTPH-HCID	ND	-----	0.243	mg/l	1x	6L20035	12/20/06 13:32	12/23/06 19:20	
Kerosene Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Surrogate(s): 2-FBP			*102%*		*50 - 150 %*	"			"	
Octacosane			*105%*		*50 - 150 %*	"			"	

TestAmerica - Seattle, WA

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ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-03 (LMW-7-1206)		**Water**			**Sampled: 12/15/06 10:00**					
Gx Range Hydrocarbons	NWTPH-HCID	ND	-----	0.245	mg/l	1x	6L20035	12/20/06 13:32	12/23/06 19:45	
Kerosene Range Hydrocarbons	"	ND	-----	0.618	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	-----	0.618	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	"	ND	-----	0.618	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	-----	0.618	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	-----	0.618	"	"	"	"	"	
Surrogate(s): 2-FBP			*104%*		*50 - 150 %*	"			"	
Octacosane			*108%*		*50 - 150 %*	"			"	
BPL0344-04 (LMW-8-1206)		**Water**			**Sampled: 12/15/06 13:10**					
Gx Range Hydrocarbons	NWTPH-HCID	ND	-----	0.243	mg/l	1x	6L20035	12/20/06 13:32	12/23/06 20:11	
Kerosene Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Surrogate(s): 2-FBP			*106%*		*50 - 150 %*	"			"	
Octacosane			*110%*		*50 - 150 %*	"			"	
BPL0344-05 (EB-1206)		**Water**			**Sampled: 12/15/06 13:05**					
Gx Range Hydrocarbons	NWTPH-HCID	ND	-----	0.243	mg/l	1x	6L20035	12/20/06 13:32	12/23/06 20:37	
Kerosene Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	-----	0.612	"	"	"	"	"	
Surrogate(s): 2-FBP			*95.9%*		*50 - 150 %*	"			"	
Octacosane			*109%*		*50 - 150 %*	"			"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0248-01 (LMW-11-1206)		**Water**			**Sampled: 12/13/06 08:15**					
Aluminum	EPA 6010B	ND	-----	0.200	mg/l	1x	6L19067	12/19/06 14:29	12/20/06 12:39	
Antimony	EPA 6020	ND	-----	0.00300	"	"	6L18036	12/18/06 11:56	12/19/06 21:37	
Arsenic	"	**0.00979**	-----	0.00100	"	"	"	"	"	
Barium	"	**0.251**	-----	0.0100	"	"	"	"	"	
Beryllium	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	**60.9**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/28/06 14:06	
Chromium	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:37	
Cobalt	"	ND	-----	0.00100	"	"	"	"	"	
Copper	"	ND	-----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	**2.42**	-----	0.150	"	"	6L19067	12/19/06 14:29	12/20/06 12:39	
Lead	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:37	
Magnesium	EPA 6010B	**29.7**	-----	0.500	"	"	6L19067	12/19/06 14:29	12/28/06 14:06	
Manganese	EPA 6020	**0.172**	-----	0.0100	"	"	6L18036	12/18/06 11:56	12/19/06 21:37	
Mercury	EPA 7470A	ND	-----	0.000200	"	"	6L19047	12/19/06 11:43	12/19/06 16:41	A-01
Nickel	EPA 6020	**0.00161**	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:37	
Potassium	EPA 6010B	**2.36**	-----	2.00	"	"	6L19067	12/19/06 14:29	12/28/06 14:06	
Selenium	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:37	
Silver	"	ND	-----	0.00100	"	"	"	"	"	M2
Sodium	EPA 6010B	**48.4**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/28/06 14:06	
Thallium	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:37	
Vanadium	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	ND	-----	0.0100	"	"	"	"	"	
BPL0248-02 (LMW-10-1206)		**Water**			**Sampled: 12/13/06 11:15**					
Aluminum	EPA 6010B	ND	-----	0.200	mg/l	1x	6L19067	12/19/06 14:29	12/20/06 12:45	
Antimony	EPA 6020	ND	-----	0.00300	"	"	6L18036	12/18/06 11:56	12/19/06 21:43	
Arsenic	"	ND	-----	0.00100	"	"	"	"	"	
Barium	"	**0.0348**	-----	0.0100	"	"	"	"	"	
Beryllium	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	**7.28**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/28/06 14:11	
Chromium	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:43	
Cobalt	"	ND	-----	0.00100	"	"	"	"	"	
Copper	"	**0.00197**	-----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	**0.167**	-----	0.150	"	"	6L19067	12/19/06 14:29	12/20/06 12:45	
Lead	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:43	
Magnesium	EPA 6010B	**3.09**	-----	0.500	"	"	6L19067	12/19/06 14:29	12/28/06 14:11	
Manganese	EPA 6020	ND	-----	0.0100	"	"	6L18036	12/18/06 11:56	12/19/06 21:43	
Mercury	EPA 7470A	ND	-----	0.000200	"	"	6L19047	12/19/06 11:43	12/19/06 16:44	A-01
Nickel	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:43	

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ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0248-02 (LMW-10-1206)		**Water**			**Sampled: 12/13/06 11:15**					
Potassium	EPA 6010B	ND	-----	2.00	mg/l	1x	6L19067	12/19/06 14:29	12/28/06 14:11	
Selenium	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:43	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Sodium	EPA 6010B	**82.0**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/28/06 14:11	
Thallium	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:43	
Vanadium	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	**0.0168**	-----	0.0100	"	"	"	"	"	
BPL0248-03 (LMW-9-1206)		**Water**			**Sampled: 12/13/06 14:40**					
Aluminum	EPA 6010B	ND	-----	0.200	mg/l	1x	6L19067	12/19/06 14:29	12/20/06 12:50	
Antimony	EPA 6020	ND	-----	0.00300	"	"	6L18036	12/18/06 11:56	12/19/06 21:49	
Arsenic	"	ND	-----	0.00100	"	"	"	"	"	
Barium	"	**0.309**	-----	0.0100	"	"	"	"	"	
Beryllium	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	**86.4**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/28/06 14:17	
Chromium	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:49	
Cobalt	"	ND	-----	0.00100	"	"	"	"	"	
Copper	"	ND	-----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	**1.78**	-----	0.150	"	"	6L19067	12/19/06 14:29	12/20/06 12:50	
Lead	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:49	
Magnesium	EPA 6010B	**48.4**	-----	0.500	"	"	6L19067	12/19/06 14:29	12/28/06 14:17	
Manganese	EPA 6020	**0.175**	-----	0.0100	"	"	6L18036	12/18/06 11:56	12/19/06 21:49	
Mercury	EPA 7470A	ND	-----	0.000200	"	"	6L19047	12/19/06 11:43	12/19/06 16:55	A-01
Nickel	EPA 6020	**0.00165**	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:49	
Potassium	EPA 6010B	**3.62**	-----	2.00	"	"	6L19067	12/19/06 14:29	12/28/06 14:17	
Selenium	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:49	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Sodium	EPA 6010B	**18.3**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/28/06 14:17	
Thallium	EPA 6020	ND	-----	0.00100	"	"	6L18036	12/18/06 11:56	12/19/06 21:49	
Vanadium	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	ND	-----	0.0100	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0267-01 (LMW-2-1206)		**Water**			**Sampled: 12/14/06 11:00**					
Aluminum	EPA 6010B	ND	-----	0.200	mg/l	1x	6L19067	12/19/06 14:29	12/20/06 11:11	
Antimony	EPA 6020	ND	-----	0.00300	"	"	6L20043	12/20/06 13:58	12/21/06 11:59	
Arsenic	"	ND	-----	0.00100	"	"	"	"	"	
Beryllium	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	**120**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/20/06 11:11	
Chromium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 11:59	
Cobalt	"	ND	-----	0.00100	"	"	"	"	"	
Copper	"	ND	-----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	ND	-----	0.150	"	"	6L19067	12/19/06 14:29	12/20/06 11:11	
Lead	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 11:59	
Magnesium	EPA 6010B	**73.1**	-----	0.500	"	"	6L19067	12/19/06 14:29	12/20/06 11:11	
Manganese	EPA 6020	**0.253**	-----	0.0100	"	"	6L20043	12/20/06 13:58	12/21/06 11:59	
Mercury	EPA 7470A	ND	-----	0.000200	"	"	6L19047	12/19/06 11:43	12/19/06 17:00	A-01
Nickel	EPA 6020	**0.00286**	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 11:59	
Potassium	EPA 6010B	**4.77**	-----	2.00	"	"	6L19067	12/19/06 14:29	12/20/06 11:11	
Selenium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 11:59	M2
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Sodium	EPA 6010B	**22.7**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/20/06 11:11	
Thallium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 11:59	
Vanadium	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	ND	-----	0.0100	"	"	"	"	"	
BPL0267-01RE1 (LMW-2-1206)		**Water**			**Sampled: 12/14/06 11:00**					
Barium	EPA 6020	**0.188**	-----	0.0100	mg/l	1x	6L20043	12/20/06 13:58	12/21/06 14:35	
BPL0267-02 (LMW-4-1206)		**Water**			**Sampled: 12/14/06 12:10**					
Aluminum	EPA 6010B	ND	-----	0.200	mg/l	1x	6L19067	12/19/06 14:29	12/20/06 11:16	
Antimony	EPA 6020	ND	-----	0.00300	"	"	6L20043	12/20/06 13:58	12/21/06 12:05	
Arsenic	"	ND	-----	0.00100	"	"	"	"	"	
Beryllium	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	**118**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/20/06 11:16	
Chromium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:05	
Cobalt	"	ND	-----	0.00100	"	"	"	"	"	
Copper	"	ND	-----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	**0.706**	-----	0.150	"	"	6L19067	12/19/06 14:29	12/20/06 11:16	
Lead	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:05	
Magnesium	EPA 6010B	**71.3**	-----	0.500	"	"	6L19067	12/19/06 14:29	12/20/06 11:16	
Manganese	EPA 6020	**0.208**	-----	0.0100	"	"	6L20043	12/20/06 13:58	12/21/06 12:05	
Mercury	EPA 7470A	ND	-----	0.000200	"	"	6L19047	12/19/06 11:43	12/19/06 17:02	A-01

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0267-02 (LMW-4-1206)		**Water**			**Sampled: 12/14/06 12:10**					
Nickel	EPA 6020	**0.00272**	-----	0.00100	mg/l	1x	6L20043	12/20/06 13:58	12/21/06 12:05	
Potassium	EPA 6010B	**3.86**	-----	2.00	"	"	6L19067	12/19/06 14:29	12/20/06 11:16	
Selenium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:05	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Sodium	EPA 6010B	**27.2**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/20/06 11:16	
Thallium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:05	
Vanadium	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	ND	-----	0.0100	"	"	"	"	"	
BPL0267-02RE1 (LMW-4-1206)		**Water**			**Sampled: 12/14/06 12:10**					
Barium	EPA 6020	**0.383**	-----	0.0200	mg/l	2x	6L20043	12/20/06 13:58	12/21/06 14:41	
BPL0267-03 (LMW-6-1206)		**Water**			**Sampled: 12/14/06 09:15**					
Aluminum	EPA 6010B	ND	-----	0.200	mg/l	1x	6L19067	12/19/06 14:29	12/20/06 11:33	
Antimony	EPA 6020	ND	-----	0.00300	"	"	6L20043	12/20/06 13:58	12/21/06 12:11	
Arsenic	"	ND	-----	0.00100	"	"	"	"	"	
Barium	"	**0.120**	-----	0.0100	"	"	"	"	"	
Beryllium	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	**28.1**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/28/06 14:01	
Chromium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:11	
Cobalt	"	ND	-----	0.00100	"	"	"	"	"	
Copper	"	ND	-----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	**2.13**	-----	0.150	"	"	6L19067	12/19/06 14:29	12/20/06 11:33	
Lead	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:11	
Magnesium	EPA 6010B	**14.6**	-----	0.500	"	"	6L19067	12/19/06 14:29	12/28/06 14:01	
Manganese	EPA 6020	**0.0334**	-----	0.0100	"	"	6L20043	12/20/06 13:58	12/21/06 12:11	
Mercury	EPA 7470A	ND	-----	0.000200	"	"	6L19047	12/19/06 11:43	12/19/06 17:05	A-01
Nickel	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:11	
Potassium	EPA 6010B	ND	-----	2.00	"	"	6L19067	12/19/06 14:29	12/20/06 11:33	
Selenium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:11	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Sodium	EPA 6010B	**7.83**	-----	0.250	"	"	6L19067	12/19/06 14:29	12/28/06 14:01	
Thallium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:11	
Vanadium	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	ND	-----	0.0100	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-01 (LMW-3-1206)		**Water**			**Sampled: 12/15/06 12:05**					
Aluminum	EPA 6010B	ND	-----	0.200	mg/l	1x	6L26051	12/26/06 15:22	12/28/06 16:07	
Antimony	EPA 6020	ND	-----	0.00300	"	"	6L20043	12/20/06 13:58	12/21/06 12:41	
Arsenic	"	ND	-----	0.00100	"	"	"	"	"	
Barium	"	**0.0749**	-----	0.0100	"	"	"	"	"	
Beryllium	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	**36.6**	-----	0.250	"	"	6L26051	12/26/06 15:22	12/28/06 16:07	
Chromium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:41	
Cobalt	"	ND	-----	0.00100	"	"	"	"	"	
Copper	"	ND	-----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	ND	-----	0.150	"	"	6L26051	12/26/06 15:22	12/28/06 16:07	
Lead	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:41	
Magnesium	EPA 6010B	**15.6**	-----	0.500	"	"	6L26051	12/26/06 15:22	12/28/06 16:07	
Manganese	EPA 6020	**0.0482**	-----	0.0100	"	"	6L20043	12/20/06 13:58	12/21/06 12:41	
Mercury	EPA 7470A	ND	-----	0.000200	"	"	6L21026	12/21/06 11:13	12/21/06 14:12	
Nickel	EPA 6020	**0.00153**	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:41	
Potassium	EPA 6010B	ND	-----	2.00	"	"	6L26051	12/26/06 15:22	12/28/06 16:07	
Selenium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:41	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Sodium	EPA 6010B	**9.65**	-----	0.250	"	"	6L26051	12/26/06 15:22	12/28/06 16:07	
Thallium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:41	
Vanadium	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	ND	-----	0.0100	"	"	"	"	"	
BPL0344-02 (LMW-5-1206)		**Water**			**Sampled: 12/15/06 13:45**					
Aluminum	EPA 6010B	ND	-----	0.200	mg/l	1x	6L26051	12/26/06 15:22	12/28/06 16:24	
Antimony	EPA 6020	ND	-----	0.00300	"	"	6L20043	12/20/06 13:58	12/21/06 12:47	
Arsenic	"	ND	-----	0.00100	"	"	"	"	"	
Barium	"	**0.321**	-----	0.0100	"	"	"	"	"	
Beryllium	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	**97.4**	-----	0.250	"	"	6L26051	12/26/06 15:22	12/28/06 16:24	
Chromium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:47	
Cobalt	"	ND	-----	0.00100	"	"	"	"	"	
Copper	"	ND	-----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	**0.169**	-----	0.150	"	"	6L26051	12/26/06 15:22	12/28/06 16:24	
Lead	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:47	
Magnesium	EPA 6010B	**55.7**	-----	0.500	"	"	6L26051	12/26/06 15:22	12/28/06 16:24	
Manganese	EPA 6020	**0.276**	-----	0.0100	"	"	6L20043	12/20/06 13:58	12/21/06 12:47	
Mercury	EPA 7470A	ND	-----	0.000200	"	"	6L21026	12/21/06 11:13	12/21/06 14:14	
Nickel	EPA 6020	**0.00277**	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:47	
Potassium	EPA 6010B	**2.91**	-----	2.00	"	"	6L26051	12/26/06 15:22	12/28/06 16:24	

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18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-02 (LMW-5-1206)		**Water**			**Sampled: 12/15/06 13:45**					
Selenium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:47	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Sodium	EPA 6010B	**18.0**	-----	0.250	"	"	6L26051	12/26/06 15:22	12/28/06 16:24	
Thallium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:47	
Vanadium	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	ND	-----	0.0100	"	"	"	"	"	
BPL0344-03 (LMW-7-1206)		**Water**			**Sampled: 12/15/06 10:00**					
Aluminum	EPA 6010B	ND	-----	0.200	mg/l	1x	6L26051	12/26/06 15:22	12/28/06 16:30	
Antimony	EPA 6020	ND	-----	0.00300	"	"	6L20043	12/20/06 13:58	12/21/06 12:53	
Arsenic	"	**0.00166**	-----	0.00100	"	"	"	"	"	
Beryllium	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	**63.4**	-----	0.250	"	"	6L26051	12/26/06 15:22	12/28/06 16:30	
Chromium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:53	
Cobalt	"	ND	-----	0.00100	"	"	"	"	"	
Copper	"	ND	-----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	**1.10**	-----	0.150	"	"	6L26051	12/26/06 15:22	12/28/06 16:30	
Lead	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:53	
Magnesium	EPA 6010B	**30.2**	-----	0.500	"	"	6L26051	12/26/06 15:22	12/28/06 16:30	
Manganese	EPA 6020	**0.152**	-----	0.0100	"	"	6L20043	12/20/06 13:58	12/21/06 12:53	
Mercury	EPA 7470A	ND	-----	0.000200	"	"	6L21026	12/21/06 11:13	12/21/06 14:17	
Nickel	EPA 6020	**0.00164**	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:53	
Potassium	EPA 6010B	**2.89**	-----	2.00	"	"	6L26051	12/26/06 15:22	12/28/06 16:30	
Selenium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:53	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Sodium	EPA 6010B	**51.8**	-----	0.250	"	"	6L26051	12/26/06 15:22	12/28/06 16:30	
Thallium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:53	
Vanadium	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	ND	-----	0.0100	"	"	"	"	"	

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TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-03RE1 (LMW-7-1206)		**Water**			**Sampled: 12/15/06 10:00**					
Barium	EPA 6020	**0.562**	-----	0.0200	mg/l	2x	6L20043	12/20/06 13:58	12/21/06 15:04	
BPL0344-04 (LMW-8-1206)		**Water**			**Sampled: 12/15/06 13:10**					
Aluminum	EPA 6010B	ND	-----	0.200	mg/l	1x	6L26051	12/26/06 15:22	12/28/06 16:35	
Antimony	EPA 6020	ND	-----	0.00300	"	"	6L20043	12/20/06 13:58	12/21/06 12:59	
Arsenic	"	**0.00124**	-----	0.00100	"	"	"	"	"	
Barium	"	**0.0332**	-----	0.0100	"	"	"	"	"	
Beryllium	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	**36.9**	-----	0.250	"	"	6L26051	12/26/06 15:22	12/28/06 16:35	
Chromium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:59	
Cobalt	"	ND	-----	0.00100	"	"	"	"	"	
Copper	"	ND	-----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	**6.53**	-----	0.150	"	"	6L26051	12/26/06 15:22	12/28/06 16:35	
Lead	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:59	
Magnesium	EPA 6010B	**20.5**	-----	0.500	"	"	6L26051	12/26/06 15:22	12/28/06 16:35	
Manganese	EPA 6020	**0.354**	-----	0.0100	"	"	6L20043	12/20/06 13:58	12/21/06 12:59	
Mercury	EPA 7470A	ND	-----	0.000200	"	"	6L21026	12/21/06 11:13	12/21/06 14:19	
Nickel	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:59	
Potassium	EPA 6010B	ND	-----	2.00	"	"	6L26051	12/26/06 15:22	12/28/06 16:35	
Selenium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:59	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Sodium	EPA 6010B	**9.73**	-----	0.250	"	"	6L26051	12/26/06 15:22	12/28/06 16:35	
Thallium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 12:59	
Vanadium	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	ND	-----	0.0100	"	"	"	"	"	
BPL0344-05 (EB-1206)		**Water**			**Sampled: 12/15/06 13:05**					
Aluminum	EPA 6010B	ND	-----	0.200	mg/l	1x	6L26051	12/26/06 15:22	12/28/06 16:41	
Antimony	EPA 6020	ND	-----	0.00300	"	"	6L20043	12/20/06 13:58	12/21/06 13:05	
Arsenic	"	ND	-----	0.00100	"	"	"	"	"	
Barium	"	ND	-----	0.0100	"	"	"	"	"	
Beryllium	"	ND	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	ND	-----	0.250	"	"	6L26051	12/26/06 15:22	12/28/06 16:41	
Chromium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 13:05	
Cobalt	"	ND	-----	0.00100	"	"	"	"	"	
Copper	"	ND	-----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	ND	-----	0.150	"	"	6L26051	12/26/06 15:22	12/28/06 16:41	
Lead	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 13:05	
Magnesium	EPA 6010B	ND	-----	0.500	"	"	6L26051	12/26/06 15:22	12/28/06 16:41	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-05 (EB-1206)		**Water**			**Sampled: 12/15/06 13:05**					
Manganese	EPA 6020	ND	-----	0.0100	mg/l	1x	6L20043	12/20/06 13:58	12/21/06 13:05	
Mercury	EPA 7470A	ND	-----	0.000200	"	"	6L21026	12/21/06 11:13	12/21/06 14:22	
Nickel	EPA 6020	**0.00124**	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 13:05	
Potassium	EPA 6010B	ND	-----	2.00	"	"	6L26051	12/26/06 15:22	12/28/06 16:41	
Selenium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 13:05	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Sodium	EPA 6010B	ND	-----	0.250	"	"	6L26051	12/26/06 15:22	12/29/06 11:32	
Thallium	EPA 6020	ND	-----	0.00100	"	"	6L20043	12/20/06 13:58	12/21/06 13:05	
Vanadium	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	ND	-----	0.0100	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Dissolved Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0248-01 (LMW-11-1206)		**Water**			**Sampled: 12/13/06 08:15**					**P7**
Arsenic	EPA 6020 - Diss	**0.00613**	-----	0.00100	mg/l	1x	6L18003	12/18/06 07:10	12/18/06 18:10	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0248-01 (LMW-11-1206)		**Water**			**Sampled: 12/13/06 08:15**					**A-01**
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 16:28	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	**0.190**	*0.141*	1.00	"	"	"	"	"	**J**
Carbon tetrachloride	"	ND	*0.119*	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	*0.122*	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	*0.0920*	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0248-01 (LMW-11-1206)		**Water**			**Sampled: 12/13/06 08:15**					**A-01**
2-Hexanone	EPA 8260B	ND	*2.03*	10.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 16:28	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	*0.132*	1.00	"	"	"	"	"	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	
Total Xylenes	"	ND	*0.298*	3.00	"	"	"	"	"	
Surrogate(s): *1,2-DCA-d4*			*106%*		*70 - 130 %*	"			"	
Toluene-d8			*103%*		*75 - 125 %*	"			"	
4-BFB			*102%*		*75 - 125 %*	"			"	
BPL0248-02 (LMW-10-1206)		**Water**			**Sampled: 12/13/06 11:15**					**A-01**
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 16:57	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0248-02 (LMW-10-1206)		**Water**			**Sampled: 12/13/06 11:15**					**A-01**
Carbon tetrachloride	EPA 8260B	ND	*0.119*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 16:57	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	*0.122*	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	*0.0920*	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	
2-Hexanone	"	ND	*2.03*	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	

TestAmerica - Seattle, WA

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ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0248-02 (LMW-10-1206)		**Water**			**Sampled: 12/13/06 11:15**					**A-01**
Tetrachloroethene	EPA 8260B	ND	*0.132*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 16:57	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	
Total Xylenes	"	ND	*0.298*	3.00	"	"	"	"	"	
Surrogate(s): *1,2-DCA-d4*			*104%*		*70 - 130 %*	"			"	
Toluene-d8			*103%*		*75 - 125 %*	"			"	
4-BFB			*102%*		*75 - 125 %*	"			"	
BPL0248-03 (LMW-9-1206)		**Water**			**Sampled: 12/13/06 14:40**					**A-01**
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 17:27	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	*0.119*	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0248-03 (LMW-9-1206)		**Water**			**Sampled: 12/13/06 14:40**					**A-01**
1,2-Dichlorobenzene	EPA 8260B	ND	*0.122*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 17:27	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	*0.0920*	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	
2-Hexanone	"	ND	*2.03*	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	*0.132*	1.00	"	"	"	"	"	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0248-03 (LMW-9-1206)		**Water**			**Sampled: 12/13/06 14:40**					**A-01**
Total Xylenes	EPA 8260B	ND	*0.298*	3.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 17:27	
Surrogate(s): 1,2-DCA-d4			*108%*		*70 - 130 %*	"			"	
Toluene-d8			*103%*		*75 - 125 %*	"			"	
4-BFB			*102%*		*75 - 125 %*	"			"	
BPL0267-01 (LMW-2-1206)		**Water**			**Sampled: 12/14/06 11:00**					**A-01**
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 17:57	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	*0.119*	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	*0.122*	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0267-01 (LMW-2-1206)		**Water**			**Sampled: 12/14/06 11:00**					**A-01**
1,1-Dichloropropene	EPA 8260B	ND	*0.0920*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 17:57	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	
2-Hexanone	"	ND	*2.03*	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	*0.132*	1.00	"	"	"	"	"	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	
Total Xylenes	"	ND	*0.298*	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*105%*		*70 - 130 %*	"			"	
Toluene-d8			*104%*		*75 - 125 %*	"			"	
4-BFB			*104%*		*75 - 125 %*	"			"	

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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0267-02 (LMW-4-1206)		**Water**			**Sampled: 12/14/06 12:10**					**A-01**
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 18:27	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	*0.119*	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	*0.122*	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	*0.0920*	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	

TestAmerica - Seattle, WA

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ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0267-02 (LMW-4-1206)		**Water**			**Sampled: 12/14/06 12:10**					**A-01**
2-Hexanone	EPA 8260B	ND	*2.03*	10.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 18:27	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	*0.132*	1.00	"	"	"	"	"	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	
Total Xylenes	"	ND	*0.298*	3.00	"	"	"	"	"	
Surrogate(s): *1,2-DCA-d4*			*106%*		*70 - 130 %*	"			"	
Toluene-d8			*103%*		*75 - 125 %*	"			"	
4-BFB			*102%*		*75 - 125 %*	"			"	
BPL0267-03 (LMW-6-1206)		**Water**			**Sampled: 12/14/06 09:15**					**A-01**
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 18:56	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0267-03 (LMW-6-1206)		**Water**			**Sampled: 12/14/06 09:15**					**A-01**
Carbon tetrachloride	EPA 8260B	ND	*0.119*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 18:56	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	*0.122*	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	*0.0920*	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	
2-Hexanone	"	ND	*2.03*	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	

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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0267-03 (LMW-6-1206)		**Water**			**Sampled: 12/14/06 09:15**					**A-01**
Tetrachloroethene	EPA 8260B	ND	*0.132*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 18:56	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	
Total Xylenes	"	ND	*0.298*	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*108%*		*70 - 130 %*	"			"	
Toluene-d8			*105%*		*75 - 125 %*	"			"	
4-BFB			*102%*		*75 - 125 %*	"			"	
BPL0267-04 (TRIP BLANK)		**Water**			**Sampled: 12/14/06 14:15**					**A-01**
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 14:56	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	*0.119*	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.139*	1.00	"	"	"	"	"	

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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0267-04 (TRIP BLANK)		**Water**			**Sampled: 12/14/06 14:15**					**A-01**
1,2-Dichlorobenzene	EPA 8260B	ND	*0.122*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 14:56	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	*0.0920*	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	
2-Hexanone	"	ND	*2.03*	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	*0.132*	1.00	"	"	"	"	"	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	

TestAmerica - Seattle, WA

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TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0267-04 (TRIP BLANK)		**Water**			**Sampled: 12/14/06 14:15**					**A-01**
Total Xylenes	EPA 8260B	ND	*0.298*	3.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 14:56	
Surrogate(s): 1,2-DCA-d4			*102%*		*70 - 130 %*	"			"	
Toluene-d8			*104%*		*75 - 125 %*	"			"	
4-BFB			*103%*		*75 - 125 %*	"			"	
BPL0344-01 (LMW-3-1206)		**Water**			**Sampled: 12/15/06 12:05**					
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 19:26	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	*0.119*	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	*0.122*	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	

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ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-01 (LMW-3-1206)		**Water**			**Sampled: 12/15/06 12:05**					
1,1-Dichloropropene	EPA 8260B	ND	*0.0920*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 19:26	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	
2-Hexanone	"	ND	*2.03*	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	*0.132*	1.00	"	"	"	"	"	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	
Total Xylenes	"	ND	*0.298*	3.00	"	"	"	"	"	
Surrogate(s): *1,2-DCA-d4*			*107%*		*70 - 130 %*	"			"	
Toluene-d8			*104%*		*75 - 125 %*	"			"	
4-BFB			*104%*		*75 - 125 %*	"			"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

BPL0344-02 (LMW-5-1206) — Water — Sampled: 12/15/06 13:45

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 19:56	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	*0.119*	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	*0.122*	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	*0.0920*	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	

TestAmerica - Seattle, WA

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-02 (LMW-5-1206)		**Water**			**Sampled: 12/15/06 13:45**					
2-Hexanone	EPA 8260B	ND	*2.03*	10.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 19:56	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	*0.132*	1.00	"	"	"	"	"	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	
Total Xylenes	"	ND	*0.298*	3.00	"	"	"	"	"	
Surrogate(s): *1,2-DCA-d4*			*108%*		*70 - 130 %*	"			"	
Toluene-d8			*104%*		*75 - 125 %*	"			"	
4-BFB			*102%*		*75 - 125 %*	"			"	
BPL0344-03 (LMW-7-1206)		**Water**			**Sampled: 12/15/06 10:00**					
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 20:41	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-03 (LMW-7-1206)		**Water**			**Sampled: 12/15/06 10:00**					
Carbon tetrachloride	EPA 8260B	ND	*0.119*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 20:41	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	*0.122*	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	*0.0920*	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	
2-Hexanone	"	ND	*2.03*	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	

TestAmerica - Seattle, WA

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ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-03 (LMW-7-1206)		**Water**			**Sampled: 12/15/06 10:00**					
Tetrachloroethene	EPA 8260B	ND	*0.132*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 20:41	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	
Total Xylenes	"	ND	*0.298*	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*107%*		*70 - 130 %*	"			"	
Toluene-d8			*103%*		*75 - 125 %*	"			"	
4-BFB			*102%*		*75 - 125 %*	"			"	
BPL0344-04 (LMW-8-1206)		**Water**			**Sampled: 12/15/06 13:10**					
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 21:10	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	*0.119*	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-04 (LMW-8-1206)		**Water**			**Sampled: 12/15/06 13:10**					
1,2-Dichlorobenzene	EPA 8260B	ND	*0.122*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 21:10	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	*0.0920*	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	
2-Hexanone	"	ND	*2.03*	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	*0.132*	1.00	"	"	"	"	"	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-04 (LMW-8-1206)		**Water**			**Sampled: 12/15/06 13:10**					
Total Xylenes	EPA 8260B	ND	*0.298*	3.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 21:10	
Surrogate(s): 1,2-DCA-d4			*104%*		*70 - 130 %*	"			"	
Toluene-d8			*106%*		*75 - 125 %*	"			"	
4-BFB			*102%*		*75 - 125 %*	"			"	
BPL0344-05 (EB-1206)		**Water**			**Sampled: 12/15/06 13:05**					
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 21:40	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.34*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	*0.119*	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	*0.122*	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-05 (EB-1206)		**Water**			**Sampled: 12/15/06 13:05**					
1,1-Dichloropropene	EPA 8260B	ND	*0.0920*	1.00	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 21:40	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	
2-Hexanone	"	ND	*2.03*	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	ND	*0.498*	2.00	"	"	"	"	"	
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	*0.132*	1.00	"	"	"	"	"	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	
Total Xylenes	"	ND	*0.298*	3.00	"	"	"	"	"	
Surrogate(s): *1,2-DCA-d4*			*109%*		*70 - 130 %*	"			"	
Toluene-d8			*104%*		*75 - 125 %*	"			"	
4-BFB			*104%*		*75 - 125 %*	"			"	

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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-06 (TRIP BLANK)		**Water**			**Sampled: 12/15/06 17:00**					
Acetone	EPA 8260B	ND	*3.23*	20.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 16:01	
Benzene	"	ND	*0.114*	1.00	"	"	"	"	"	
Bromobenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	*0.178*	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	*0.141*	1.00	"	"	"	"	"	
Bromoform	"	ND	*0.151*	1.00	"	"	"	"	"	
Bromomethane	"	ND	*0.175*	2.00	"	"	"	"	"	
2-Butanone	"	ND	*2.24*	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	*0.110*	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	*0.0890*	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	*0.141*	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	*0.119*	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	*0.229*	1.00	"	"	"	"	"	
Chloroethane	"	ND	*0.248*	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	*0.360*	1.00	"	"	"	"	"	
Chloroform	"	ND	*0.0780*	1.00	"	"	"	"	"	
Chloromethane	"	ND	*0.313*	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	*0.194*	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	*0.218*	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	*0.118*	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	*0.453*	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	*0.0571*	0.200	"	"	"	"	"	
Dibromomethane	"	ND	*0.129*	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	*0.122*	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	*0.0740*	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	*0.135*	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	*0.259*	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	*0.138*	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	*0.149*	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	*0.280*	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	*0.153*	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	*0.157*	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	*0.110*	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	*0.158*	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	*0.0920*	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	*0.0930*	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	*0.129*	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	*0.125*	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	*0.818*	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	*0.248*	2.00	"	"	"	"	"	
n-Hexane	"	ND	*0.217*	2.00	"	"	"	"	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPL0344-06 (TRIP BLANK)		**Water**			**Sampled: 12/15/06 17:00**					
2-Hexanone	EPA 8260B	ND	*2.03*	10.0	ug/l	1x	6L20037	12/20/06 13:34	12/20/06 16:01	
Isopropylbenzene	"	ND	*0.0850*	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	*0.106*	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	*0.856*	10.0	"	"	"	"	"	
Methylene chloride	"	**0.620**	*0.498*	2.00	"	"	"	"	"	J
Naphthalene	"	ND	*0.408*	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	*0.0720*	1.00	"	"	"	"	"	
Styrene	"	ND	*0.0720*	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	*0.132*	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	*0.134*	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	*0.107*	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	*0.0950*	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	*0.132*	1.00	"	"	"	"	"	
Toluene	"	ND	*0.127*	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	*0.125*	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	*0.119*	1.00	"	"	"	"	"	
Trichloroethene	"	ND	*0.0780*	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	*0.114*	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	*0.221*	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	*0.103*	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	*0.0940*	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	*0.0945*	0.200	"	"	"	"	"	
o-Xylene	"	ND	*0.118*	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	*0.205*	2.00	"	"	"	"	"	
Total Xylenes	"	ND	*0.298*	3.00	"	"	"	"	"	
Surrogate(s): *1,2-DCA-d4*			*105%*		*70 - 130 %*	"			"	
Toluene-d8			*103%*		*75 - 125 %*	"			"	
4-BFB			*103%*		*75 - 125 %*	"			"	

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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Laboratory Quality Control Results

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QC Batch: 6L19022 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L19022-BLK1)								Extracted: 12/19/06 09:49						
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	12/21/06 17:36	
Kerosene Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Insulating Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Lube Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 104%*			*Limits: 50-150%*	"							*12/21/06 17:36*	
Octacosane		*114%*			*50-150%*	"							"	
LCS (6L19022-BS1)								Extracted: 12/19/06 09:49						
Diesel Range Hydrocarbons	NWTPH-HCID	DET	---	0.630	mg/l	1x	--	2.00	82.0%	(58-125)	--	--	12/21/06 18:02	
Surrogate(s): 2-FBP		*Recovery: 102%*			*Limits: 50-150%*	"							*12/21/06 18:02*	
Octacosane		*109%*			*50-150%*	"							"	
LCS Dup (6L19022-BSD1)								Extracted: 12/19/06 09:49						
Diesel Range Hydrocarbons	NWTPH-HCID	DET	---	0.630	mg/l	1x	--	2.00	84.5%	(58-125)	3.00%	(40)	12/21/06 18:28	
Surrogate(s): 2-FBP		*Recovery: 108%*			*Limits: 50-150%*	"							*12/21/06 18:28*	
Octacosane		*109%*			*50-150%*	"							"	

QC Batch: 6L20035 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L20035-BLK1)								Extracted: 12/20/06 13:32						
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	12/23/06 14:10	
Kerosene Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Insulating Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Lube Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 106%*			*Limits: 50-150%*	"							*12/23/06 14:10*	
Octacosane		*106%*			*50-150%*	"							"	

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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Laboratory Quality Control Results

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QC Batch: 6L20035 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6L20035-BS1)													**Extracted: 12/20/06 13:32**	
Diesel Range Hydrocarbons	NWTPH-HCID	DET	---	0.630	mg/l	1x	--	2.00	85.0%	(58-125)	--	--	12/23/06 14:36	
Surrogate(s): 2-FBP		*Recovery: 101%*			*Limits: 50-150%*	"							*12/23/06 14:36*	
Octacosane		*104%*			*50-150%*	"							"	
LCS Dup (6L20035-BSD1)													**Extracted: 12/20/06 13:32**	
Diesel Range Hydrocarbons	NWTPH-HCID	DET	---	0.630	mg/l	1x	--	2.00	89.5%	(58-125)	5.16%	(40)	12/23/06 15:02	
Surrogate(s): 2-FBP		*Recovery: 112%*			*Limits: 50-150%*	"							*12/23/06 15:02*	
Octacosane		*112%*			*50-150%*	"							"	

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18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 6L18036 **Water Preparation Method: EPA 3020A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L18036-BLK1)									Extracted: 12/18/06 11:56					
Chromium	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	12/19/06 20:56	
Cobalt	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Vanadium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Antimony	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Beryllium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Manganese	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (6L18036-BS1)									Extracted: 12/18/06 11:56					
Manganese	EPA 6020	0.0859	---	0.0100	mg/l	1x	--	0.0800	107%	(80-120)	--	--	12/19/06 21:13	
Antimony	"	0.0586	---	0.00300	"	"	--	0.0600	97.7%	"	--	--	"	
Zinc	"	0.0792	---	0.0100	"	"	--	0.0800	99.0%	"	--	--	"	
Silver	"	0.0806	---	0.00100	"	"	--	"	101%	"	--	--	"	
Copper	"	0.0843	---	0.00100	"	"	--	"	105%	"	--	--	"	
Selenium	"	0.0710	---	0.00100	"	"	--	"	88.8%	"	--	--	"	
Vanadium	"	0.0852	---	0.00100	"	"	--	"	106%	"	--	--	"	
Beryllium	"	0.0705	---	0.00100	"	"	--	"	88.1%	"	--	--	"	
Arsenic	"	0.0701	---	0.00100	"	"	--	"	87.6%	"	--	--	"	
Barium	"	0.0852	---	0.0100	"	"	--	"	106%	"	--	--	"	
Lead	"	0.0794	---	0.00100	"	"	--	"	99.3%	"	--	--	"	
Cobalt	"	0.0866	---	0.00100	"	"	--	"	108%	"	--	--	"	
Nickel	"	0.0861	---	0.00100	"	"	--	"	108%	"	--	--	"	
Chromium	"	0.0833	---	0.00100	"	"	--	"	104%	"	--	--	"	
Cadmium	"	0.0779	---	0.00100	"	"	--	"	97.4%	"	--	--	"	
Thallium	"	0.0770	---	0.00100	"	"	--	"	96.2%	"	--	--	"	

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BOTHELL, WA 98011-8244
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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L18036 **Water Preparation Method: EPA 3020A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6L18036-DUP1)				QC Source: BPL0248-01					Extracted: 12/18/06 11:56					
Arsenic	EPA 6020	0.0100	---	0.00100	mg/l	1x	0.00979	--	--	--	2.12%	(20)	12/19/06 21:25	
Zinc	"	ND	---	0.0100	"	"	ND	--	--	--	28.8%	"	"	R4
Beryllium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Nickel	"	0.00168	---	0.00100	"	"	0.00161	--	--	--	4.26%	"	"	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	8.00%	"	"	
Silver	"	ND	---	0.00100	"	"	ND	--	--	--	88.9%	(50)	"	R4
Selenium	"	ND	---	0.00100	"	"	ND	--	--	--	17.6%	(20)	"	
Manganese	"	0.177	---	0.0100	"	"	0.172	--	--	--	2.87%	"	"	
Antimony	"	ND	---	0.00300	"	"	ND	--	--	--		"	"	
Cobalt	"	ND	---	0.00100	"	"	ND	--	--	--	9.09%	"	"	
Vanadium	"	ND	---	0.00100	"	"	ND	--	--	--	7.32%	"	"	
Barium	"	0.249	---	0.0100	"	"	0.251	--	--	--	0.800%	"	"	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Copper	"	ND	---	0.00100	"	"	ND	--	--	--	19.5%	"	"	
Chromium	"	ND	---	0.00100	"	"	ND	--	--	--	14.4%	"	"	
Thallium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Matrix Spike (6L18036-MS1)				QC Source: BPL0248-01					Extracted: 12/18/06 11:56					
Nickel	EPA 6020	0.0866	---	0.00100	mg/l	1x	0.00161	0.0800	106%	(77-120)	--	--	12/19/06 21:31	
Beryllium	"	0.0737	---	0.00100	"	"	ND	"	92.1%	(80-120)	--	--	"	
Zinc	"	0.0793	---	0.0100	"	"	0.00505	"	92.8%	(68-128)	--	--	"	
Silver	"	0.0160	---	0.00100	"	"	0.0000500	"	19.9%	(21-142)	--	--	"	M2
Arsenic	"	0.0881	---	0.00100	"	"	0.00979	"	97.9%	(75-125)	--	--	"	
Vanadium	"	0.0887	---	0.00100	"	"	0.000790	"	110%	(83-120)	--	--	"	
Cobalt	"	0.0866	---	0.00100	"	"	0.000420	"	108%	(80-120)	--	--	"	
Barium	"	0.334	---	0.0100	"	"	0.251	"	104%	(53-142)	--	--	"	
Selenium	"	0.0719	---	0.00100	"	"	0.000310	"	89.5%	(78-120)	--	--	"	
Lead	"	0.0786	---	0.00100	"	"	0.000120	"	98.1%	(80-120)	--	--	"	
Copper	"	0.0842	---	0.00100	"	"	0.000510	"	105%	(70-125)	--	--	"	
Thallium	"	0.0773	---	0.00100	"	"	ND	"	96.6%	(80-120)	--	--	"	
Cadmium	"	0.0788	---	0.00100	"	"	ND	"	98.5%	"	--	--	"	
Manganese	"	0.272	---	0.0100	"	"	0.172	"	125%	(25-186)	--	--	"	
Chromium	"	0.0847	---	0.00100	"	"	0.000580	"	105%	(80-120)	--	--	"	
Antimony	"	0.0629	---	0.00300	"	"	ND	0.0600	105%	(74-126)	--	--	"	

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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L18036 **Water Preparation Method: EPA 3020A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (6L18036-PS1)					QC Source: BPL0248-01				Extracted: 12/18/06 11:56					
Manganese	EPA 6020	0.285	---		ug/ml	1x	0.172	0.100	113%	(75-125)	--	--	12/19/06 21:19	
Copper	"	0.0984	---		"	"	0.000510	0.101	96.9%	"	--	--	"	
Cobalt	"	0.101	---		"	"	0.000420	0.0995	101%	"	--	--	"	
Cadmium	"	0.0919	---		"	"	0.0000800	0.100	91.8%	"	--	--	"	
Beryllium	"	0.0849	---		"	"	0.0000300	"	84.9%	"	--	--	"	
Barium	"	0.349	---		"	"	0.251	0.0995	98.5%	"	--	--	"	
Arsenic	"	0.104	---		"	"	0.00979	0.100	94.2%	"	--	--	"	
Silver	"	0.0907	---		"	"	0.0000500	"	90.6%	"	--	--	"	
Chromium	"	0.101	---		"	"	0.000580	"	100%	"	--	--	"	
Antimony	"	0.0471	---		"	"	0.000140	0.0500	93.9%	"	--	--	"	
Selenium	"	0.0860	---		"	"	0.000310	0.100	85.7%	"	--	--	"	
Nickel	"	0.100	---		"	"	0.00161	0.0995	98.9%	"	--	--	"	
Thallium	"	0.0963	---		"	"	0.0000100	0.100	96.3%	"	--	--	"	
Vanadium	"	0.104	---		"	"	0.000790	"	103%	"	--	--	"	
Lead	"	0.0964	---		"	"	0.000120	0.0995	96.8%	"	--	--	"	
Zinc	"	0.0938	---		"	"	0.00505	"	89.2%	"	--	--	"	

QC Batch: 6L19047 **Water Preparation Method: EPA 7470A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L19047-BLK1)									Extracted: 12/19/06 11:43					
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	12/19/06 16:21	
Blank (6L19047-BLK2)									Extracted: 12/19/06 11:43					
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	12/19/06 16:24	
Blank (6L19047-BLK3)									Extracted: 12/19/06 11:43					
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	12/19/06 16:26	
LCS (6L19047-BS1)									Extracted: 12/19/06 11:43					
Mercury	EPA 7470A	0.00441	---		mg/l	1x	--	0.00500	88.2%	(80-120)	--	--	12/19/06 16:29	
LCS Dup (6L19047-BSD1)									Extracted: 12/19/06 11:43					
Mercury	EPA 7470A	0.00449	---		mg/l	1x	--	0.00500	89.8%	(80-120)	1.80%	(20)	12/19/06 16:31	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 6L19047 **Water Preparation Method: EPA 7470A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6L19047-DUP1)				QC Source: BPL0248-01				Extracted: 12/19/06 11:43						
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	ND	--	--	--	NR	(20)	12/19/06 17:47	
Matrix Spike (6L19047-MS1)				QC Source: BPL0248-01				Extracted: 12/19/06 11:43						
Mercury	EPA 7470A	0.00457	---		mg/l	1x	0.0000304	0.00500	90.8%	(70-130)	--	--	12/19/06 16:34	
Matrix Spike (6L19047-MS2)				QC Source: BPL0267-01				Extracted: 12/19/06 11:43						
Mercury	EPA 7470A	0.00448	---		mg/l	1x	-0.0000223	0.00500	90.0%	(70-130)	--	--	12/19/06 16:36	

QC Batch: 6L19067 **Water Preparation Method: EPA 3010A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L19067-BLK1)								Extracted: 12/19/06 14:29						
Potassium	EPA 6010B	ND	---	2.00	mg/l	1x	--	--	--	--	--	--	12/20/06 10:32	
Iron	"	ND	---	0.150	"	"	--	--	--	--	--	--	"	
Calcium	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Magnesium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aluminum	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Sodium	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
LCS (6L19067-BS1)								Extracted: 12/19/06 14:29						
Potassium	EPA 6010B	10.6	---	2.00	mg/l	1x	--	10.0	106%	(80-120)	--	--	12/20/06 10:38	
Magnesium	"	5.08	---	0.500	"	"	--	5.00	102%	"	--	--	"	
Calcium	"	5.08	---	0.250	"	"	--	"	102%	"	--	--	"	
Iron	"	5.00	---	0.150	"	"	--	"	100%	"	--	--	"	
Sodium	"	4.90	---	0.250	"	"	--	"	98.0%	"	--	--	"	
Aluminum	"	4.95	---	0.200	"	"	--	"	99.0%	"	--	--	"	
Duplicate (6L19067-DUP1)				QC Source: BPL0249-01				Extracted: 12/19/06 14:29						
Iron	EPA 6010B	0.412	---	0.150	mg/l	1x	0.410	--	--	--	0.487%	(20)	12/20/06 10:49	
Calcium	"	26.7	---	0.250	"	"	25.8	--	--	--	3.43%	"	"	
Sodium	"	141	---	0.250	"	"	136	--	--	--	3.61%	"	"	
Aluminum	"	ND	---	0.200	"	"	ND	--	--	--	NR	"	"	
Potassium	"	ND	---	2.00	"	"	ND	--	--	--	17.5%	"	"	
Magnesium	"	15.0	---	0.500	"	"	14.5	--	--	--	3.39%	"	"	

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BOTHELL, WA 98011-8244
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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 6L19067 **Water Preparation Method: EPA 3010A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (6L19067-MS1)				QC Source: BPL0249-01				Extracted: 12/19/06 14:29						
Potassium	EPA 6010B	11.9	---	2.00	mg/l	1x	1.74	10.0	102%	(80-120)	--	--	12/20/06 10:43	
Magnesium	"	19.5	---	0.500	"	"	14.5	5.00	100%	(42-150)	--	--	"	
Aluminum	"	4.98	---	0.200	"	"	ND	"	99.6%	(75-125)	--	--	"	
Calcium	"	30.8	---	0.250	"	"	25.8	"	100%	(27-158)	--	--	"	
Iron	"	5.35	---	0.150	"	"	0.410	"	98.8%	(60-137)	--	--	"	
Sodium	"	141	---	0.250	"	"	136	"	100%	(47-155)	--	--	"	

QC Batch: 6L20043 **Water Preparation Method: EPA 3020A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L20043-BLK1)								Extracted: 12/20/06 13:58						
Nickel	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	12/21/06 11:30	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Antimony	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Manganese	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Vanadium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cobalt	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Beryllium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
LCS (6L20043-BS1)								Extracted: 12/20/06 13:58						
Selenium	EPA 6020	0.0708	---	0.00100	mg/l	1x	--	0.0800	88.5%	(80-120)	--	--	12/21/06 11:35	
Cobalt	"	0.0885	---	0.00100	"	"	--	"	111%	"	--	--	"	
Beryllium	"	0.0834	---	0.00100	"	"	--	"	104%	"	--	--	"	
Chromium	"	0.0887	---	0.00100	"	"	--	"	111%	"	--	--	"	
Cadmium	"	0.0835	---	0.00100	"	"	--	"	104%	"	--	--	"	
Thallium	"	0.0844	---	0.00100	"	"	--	"	106%	"	--	--	"	
Silver	"	0.0893	---	0.00100	"	"	--	"	112%	"	--	--	"	
Copper	"	0.0898	---	0.00100	"	"	--	"	112%	"	--	--	"	

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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L20043 **Water Preparation Method: EPA 3020A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6L20043-BS1)								Extracted: 12/20/06 13:58						
Antimony	EPA 6020	0.0652	---	0.00300	mg/l	1x	--	0.0600	109%	(80-120)	--	--	12/21/06 11:35	
Barium	"	0.0906	---	0.0100	"	"	--	0.0800	113%	"	--	--	"	
Arsenic	"	0.0781	---	0.00100	"	"	--	"	97.6%	"	--	--	"	
Zinc	"	0.0780	---	0.0100	"	"	--	"	97.5%	"	--	--	"	
Manganese	"	0.0892	---	0.0100	"	"	--	"	112%	"	--	--	"	
Lead	"	0.0858	---	0.00100	"	"	--	"	107%	"	--	--	"	
Nickel	"	0.0867	---	0.00100	"	"	--	"	108%	"	--	--	"	
Vanadium	"	0.0916	---	0.00100	"	"	--	"	114%	"	--	--	"	
Duplicate (6L20043-DUP1)					QC Source: BPL0267-01					Extracted: 12/20/06 13:58				
Thallium	EPA 6020	ND	---	0.00100	mg/l	1x	ND	--	--	--	NR	(20)	12/21/06 11:53	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Cobalt	"	ND	---	0.00100	"	"	ND	--	--	--	8.00%	"	"	
Vanadium	"	ND	---	0.00100	"	"	ND	--	--	--	21.3%	"	"	R4
Manganese	"	0.245	---	0.0100	"	"	0.253	--	--	--	3.21%	"	"	
Zinc	"	ND	---	0.0100	"	"	ND	--	--	--	10.2%	"	"	
Silver	"	ND	---	0.00100	"	"	ND	--	--	--		(50)	"	
Arsenic	"	ND	---	0.00100	"	"	ND	--	--	--	NR	(20)	"	
Beryllium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Nickel	"	0.00278	---	0.00100	"	"	0.00286	--	--	--	2.84%	"	"	
Copper	"	ND	---	0.00100	"	"	ND	--	--	--	2.25%	"	"	
Antimony	"	ND	---	0.00300	"	"	ND	--	--	--		"	"	
Chromium	"	ND	---	0.00100	"	"	ND	--	--	--	1.55%	"	"	
Selenium	"	ND	---	0.00100	"	"	ND	--	--	--	11.8%	"	"	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Duplicate (6L20043-DUP2)					QC Source: BPL0267-01					Extracted: 12/20/06 13:58				
Barium	EPA 6020	0.372	---	0.0200	mg/l	2x	0.396	--	--	--	6.25%	(20)	12/21/06 14:29	
Matrix Spike (6L20043-MS1)					QC Source: BPL0267-01					Extracted: 12/20/06 13:58				
Antimony	EPA 6020	0.0660	---	0.00300	mg/l	1x	ND	0.0600	110%	(74-126)	--	--	12/21/06 11:47	
Vanadium	"	0.0912	---	0.00100	"	"	0.000210	0.0800	114%	(83-120)	--	--	"	
Beryllium	"	0.0848	---	0.00100	"	"	ND	"	106%	(80-120)	--	--	"	
Arsenic	"	0.0790	---	0.00100	"	"	ND	"	98.8%	(75-125)	--	--	"	
Zinc	"	0.0752	---	0.0100	"	"	0.00260	"	90.8%	(68-128)	--	--	"	
Silver	"	0.0423	---	0.00100	"	"	ND	"	52.9%	(21-142)	--	--	"	
Copper	"	0.0854	---	0.00100	"	"	0.000900	"	106%	(70-125)	--	--	"	
Nickel	"	0.0850	---	0.00100	"	"	0.00286	"	103%	(77-120)	--	--	"	
Manganese	"	0.320	---	0.0100	"	"	0.253	"	83.8%	(25-186)	--	--	"	

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18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L20043 **Water Preparation Method: EPA 3020A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (6L20043-MS1)				QC Source: BPL0267-01					Extracted: 12/20/06 13:58					
Cadmium	EPA 6020	0.0807	---	0.00100	mg/l	1x	ND	0.0800	101%	(80-120)	--	--	12/21/06 11:47	
Lead	"	0.0841	---	0.00100	"	"	ND	"	105%	"	--	--	"	
Selenium	"	0.0626	---	0.00100	"	"	0.000540	"	77.6%	(78-120)	--	--	"	M2
Chromium	"	0.0867	---	0.00100	"	"	0.000640	"	108%	(80-120)	--	--	"	
Cobalt	"	0.0849	---	0.00100	"	"	0.000240	"	106%	"	--	--	"	
Thallium	"	0.0839	---	0.00100	"	"	ND	"	105%	"	--	--	"	
Matrix Spike (6L20043-MS2)				QC Source: BPL0267-01					Extracted: 12/20/06 13:58					
Barium	EPA 6020	0.440	---	0.0200	mg/l	2x	0.396	0.0800	55.0%	(53-142)	--	--	12/21/06 14:22	
Post Spike (6L20043-PS1)				QC Source: BPL0267-01					Extracted: 12/20/06 13:58					
Vanadium	EPA 6020	0.113	---		ug/ml	1x	0.000210	0.100	113%	(75-125)	--	--	12/21/06 11:41	
Antimony	"	0.0517	---		"	"	0.000230	0.0500	103%	"	--	--	"	
Copper	"	0.104	---		"	"	0.000900	0.101	102%	"	--	--	"	
Selenium	"	0.0856	---		"	"	0.000540	0.100	85.1%	"	--	--	"	
Chromium	"	0.108	---		"	"	0.000640	"	107%	"	--	--	"	
Cadmium	"	0.0972	---		"	"	0.0000700	"	97.1%	"	--	--	"	
Arsenic	"	0.101	---		"	"	0.000110	"	101%	"	--	--	"	
Cobalt	"	0.104	---		"	"	0.000240	0.0995	104%	"	--	--	"	
Thallium	"	0.103	---		"	"	-0.0000600	0.100	103%	"	--	--	"	
Beryllium	"	0.102	---		"	"	-0.0000500	"	102%	"	--	--	"	
Nickel	"	0.103	---		"	"	0.00286	0.0995	101%	"	--	--	"	
Silver	"	0.0997	---		"	"	-0.0000400	0.100	99.7%	"	--	--	"	
Zinc	"	0.0915	---		"	"	0.00260	0.0995	89.3%	"	--	--	"	
Lead	"	0.101	---		"	"	-0.0000100	"	102%	"	--	--	"	
Post Spike (6L20043-PS2)				QC Source: BPL0267-01					Extracted: 12/20/06 13:58					
Manganese	EPA 6020	0.323	---		ug/ml	2x	0.253	0.100	70.0%	(75-125)	--	--	12/21/06 14:16	S3
Barium	"	0.491	---		"	"	0.396	0.0995	95.5%	"	--	--	"	

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18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L21026 **Water Preparation Method: EPA 7470A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L21026-BLK1)								**Extracted: 12/21/06 11:13**						
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	12/21/06 13:29	
LCS (6L21026-BS1)								**Extracted: 12/21/06 11:13**						
Mercury	EPA 7470A	0.00530	---		mg/l	1x	--	0.00500	106%	(80-120)	--	--	12/21/06 13:31	
LCS Dup (6L21026-BSD1)								**Extracted: 12/21/06 11:13**						
Mercury	EPA 7470A	0.00546	---		mg/l	1x	--	0.00500	109%	(80-120)	2.97%	(20)	12/21/06 13:33	
Duplicate (6L21026-DUP1)				**QC Source: BPL0307-07**				**Extracted: 12/21/06 11:13**						
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	ND	--	--	--		(20)	12/21/06 13:41	
Matrix Spike (6L21026-MS1)				**QC Source: BPL0307-07**				**Extracted: 12/21/06 11:13**						
Mercury	EPA 7470A	0.00526	---		mg/l	1x	0.0000395	0.00500	104%	(70-130)	--	--	12/21/06 13:36	
Matrix Spike (6L21026-MS2)				**QC Source: BPL0309-01**				**Extracted: 12/21/06 11:13**						
Mercury	EPA 7470A	0.00538	---		mg/l	1x	-0.0000470	0.00500	109%	(70-130)	--	--	12/21/06 13:38	

QC Batch: 6L26051 **Water Preparation Method: EPA 3010A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L26051-BLK1)								**Extracted: 12/26/06 15:22**						
Magnesium	EPA 6010B	ND	---	0.500	mg/l	1x	--	--	--	--	--	--	12/28/06 15:33	
Sodium	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Iron	"	ND	---	0.150	"	"	--	--	--	--	--	--	"	
Calcium	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Potassium	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Aluminum	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
LCS (6L26051-BS1)								**Extracted: 12/26/06 15:22**						
Potassium	EPA 6010B	9.57	---	2.00	mg/l	1x	--	10.0	95.7%	(80-120)	--	--	12/28/06 15:39	
Sodium	"	4.98	---	0.250	"	"	--	5.00	99.6%	"	--	--	"	
Magnesium	"	5.16	---	0.500	"	"	--	"	103%	"	--	--	"	
Aluminum	"	4.64	---	0.200	"	"	--	"	92.8%	"	--	--	"	
Iron	"	4.76	---	0.150	"	"	--	"	95.2%	"	--	--	"	
Calcium	"	5.07	---	0.250	"	"	--	"	101%	"	--	--	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L26051 **Water Preparation Method: EPA 3010A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6L26051-DUP1)				QC Source: BPL0280-01					Extracted: 12/26/06 15:22					
Potassium	EPA 6010B	ND	---	2.00	mg/l	1x	ND	--	--	--	8.29%	(20)	12/28/06 15:56	
Calcium	"	11.2	---	0.250	"	"	11.6	--	--	--	3.51%	"	"	
Magnesium	"	3.10	---	0.500	"	"	3.19	--	--	--	2.86%	"	"	
Sodium	"	2.54	---	0.250	"	"	2.60	--	--	--	2.33%	"	"	
Aluminum	"	0.905	---	0.200	"	"	0.947	--	--	--	4.54%	"	"	
Iron	"	2.71	---	0.150	"	"	2.80	--	--	--	3.27%	"	"	
Matrix Spike (6L26051-MS1)				QC Source: BPL0280-01					Extracted: 12/26/06 15:22					
Magnesium	EPA 6010B	8.19	---	0.500	mg/l	1x	3.19	5.00	100%	(42-150)	--	--	12/28/06 15:44	
Calcium	"	15.6	---	0.250	"	"	11.6	"	80.0%	(27-158)	--	--	"	
Iron	"	7.46	---	0.150	"	"	2.80	"	93.2%	(60-137)	--	--	"	
Sodium	"	7.46	---	0.250	"	"	2.60	"	97.2%	(47-155)	--	--	"	
Aluminum	"	6.17	---	0.200	"	"	0.947	"	104%	(75-125)	--	--	"	
Potassium	"	11.4	---	2.00	"	"	1.13	10.0	103%	(80-120)	--	--	"	

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18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Dissolved Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L18003 **Water Preparation Method: EPA 3005A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L18003-BLK1)								Extracted: 12/18/06 07:10						
Arsenic	EPA 6020 - Diss	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	12/18/06 16:12	
Blank (6L18003-BLK2)								Extracted: 12/18/06 07:10						
Arsenic	EPA 6020 - Diss	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	12/18/06 16:18	
LCS (6L18003-BS1)								Extracted: 12/18/06 07:10						
Arsenic	EPA 6020 - Diss	0.209	---	0.00100	mg/l	1x	--	0.200	104%	(80-120)	--	--	12/18/06 16:35	
Duplicate (6L18003-DUP1)					QC Source: BPL0246-01			Extracted: 12/18/06 07:10						
Arsenic	EPA 6020 - Diss	ND	---	0.00100	mg/l	1x	ND	--	--	--	16.0%	(20)	12/18/06 16:47	
Matrix Spike (6L18003-MS1)					QC Source: BPL0246-01			Extracted: 12/18/06 07:10						
Arsenic	EPA 6020 - Diss	0.105	---	0.00100	mg/l	1x	0.000750	0.100	104%	(80-128)	--	--	12/18/06 16:41	

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18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L20037 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L20037-BLK1)								**Extracted: 12/20/06 10:34**						
Acetone	EPA 8260B	ND	1.43	5.00	ug/l	1x	--	--	--	--	--	--	12/20/06 14:31	
Benzene	"	ND	0.114	0.500	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	0.0890	1.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	0.178	1.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	0.141	0.500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	0.151	0.500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	0.175	2.00	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	2.24	5.00	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	0.110	1.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	0.110	1.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	0.0890	1.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	0.141	1.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	0.119	0.500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	0.136	0.500	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	0.220	1.00	"	"	--	--	--	--	--	--	"	
1-Chlorohexane	"	ND	0.360	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	0.0780	0.500	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	0.313	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	0.135	1.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	0.218	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	0.108	0.500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	0.425	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	0.0571	0.200	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	0.129	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	0.122	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	0.0740	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	0.109	1.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	0.259	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	0.114	0.500	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	0.138	0.500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	0.149	0.500	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	0.229	0.500	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	0.153	0.500	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	0.157	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	0.110	1.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	0.158	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	0.0920	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	0.0930	0.500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	0.129	0.500	"	"	--	--	--	--	--	--	"	

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Golder Associates Inc.	Project Name:	**Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L20037 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6L20037-BLK1)							Extracted: 12/20/06 10:34							
Ethylbenzene	EPA 8260B	ND	0.125	0.500	ug/l	1x	--	--	--	--	--	--	12/20/06 14:31	
Hexachlorobutadiene	"	0.260	0.251	1.00	"	"	--	--	--	--	--	--	"	J
Methyl tert-butyl ether	"	ND	0.248	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	0.217	2.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	2.03	5.00	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	0.0850	1.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	0.106	1.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	0.856	2.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	0.305	2.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	1.06	0.408	5.00	"	"	--	--	--	--	--	--	"	J
n-Propylbenzene	"	ND	0.0720	1.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	0.0720	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	0.820	0.132	5.00	"	"	--	--	--	--	--	--	"	J
1,2,4-Trichlorobenzene	"	0.390	0.134	1.00	"	"	--	--	--	--	--	--	"	J
1,1,1,2-Tetrachloroethane	"	ND	0.107	1.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	0.0542	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	0.132	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0382	0.500	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	0.125	0.500	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	0.119	0.500	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	0.0780	0.500	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	0.114	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	0.219	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	0.103	1.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	0.0940	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	0.0945	0.200	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.118	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.205	2.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	0.298	3.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 102%*			*Limits: 77-122%*	"							*12/20/06 14:31*	
Toluene-d8		*102%*			*75-124%*	"							"	
4-BFB		*104%*			*77-120%*	"							"	

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Golder Associates Inc.	Project Name: **Landsburg Mine**	
18300 NE Union Hill Rd, Suite 200	Project Number: Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager: Douglas Morell	02/05/07 08:34

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6L20037 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6L20037-BS1)								**Extracted: 12/20/06 10:34**						
Benzene	EPA 8260B	18.5	0.114	1.00	ug/l	1x	--	20.0	92.5%	(80-120)	--	--	12/20/06 13:25	
Chlorobenzene	"	18.4	0.229	1.00	"	"	--	"	92.0%	"	--	--	"	
1,1-Dichloroethene	"	18.8	0.149	1.00	"	"	--	"	94.0%	"	--	--	"	
Methyl tert-butyl ether	"	19.2	0.248	1.00	"	"	--	"	96.0%	(75-126)	--	--	"	
Toluene	"	18.2	0.0382	1.00	"	"	--	"	91.0%	(80-120)	--	--	"	
Trichloroethene	"	19.0	0.0780	1.00	"	"	--	"	95.0%	"	--	--	"	
Total Xylenes	"	57.1	0.298	3.00	"	"	--	60.0	95.2%	(75-125)	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 101%*			*Limits: 77-122%*	"							*12/20/06 13:25*	
Toluene-d8		*98.0%*			*75-124%*	"							"	
4-BFB		*102%*			*77-120%*	"							"	
LCS Dup (6L20037-BSD1)								**Extracted: 12/20/06 10:34**						
Benzene	EPA 8260B	19.1	0.114	1.00	ug/l	1x	--	20.0	95.5%	(80-120)	3.19%	(20)	12/20/06 13:52	
Chlorobenzene	"	19.1	0.229	1.00	"	"	--	"	95.5%	"	3.73%	"	"	
1,1-Dichloroethene	"	18.9	0.149	1.00	"	"	--	"	94.5%	"	0.531%	"	"	
Methyl tert-butyl ether	"	18.9	0.248	1.00	"	"	--	"	94.5%	(75-126)	1.57%	"	"	
Toluene	"	19.3	0.0382	1.00	"	"	--	"	96.5%	(80-120)	5.87%	"	"	
Trichloroethene	"	18.6	0.0780	1.00	"	"	--	"	93.0%	"	2.13%	"	"	
Total Xylenes	"	59.4	0.298	3.00	"	"	--	60.0	99.0%	(75-125)	3.95%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 102%*			*Limits: 77-122%*	"							*12/20/06 13:52*	
Toluene-d8		*102%*			*75-124%*	"							"	
4-BFB		*102%*			*77-120%*	"							"	

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18300 NE Union Hill Rd, Suite 200	Project Number:	Not Provided	Report Created:
Redmond, WA/USA 98052-3333	Project Manager:	Douglas Morell	02/05/07 08:34

Notes and Definitions

Report Specific Notes:

A-01	-	Due to the recent 36 hour power outage, the temperatures of the lab's refrigerated storage units containing this sample could not be maintained below 6 degrees Celsius per the EPA recommended temperature guidelines prior to analysis.
J	-	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M2	-	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
P7	-	Sample filtered in lab.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
S3	-	Post digestion spike is out of acceptance limits for this analyte

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Kortland Orr, PM

APPENDIX B

SAMPLE INTEGRITY DATA SHEETS (SIDS)

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

Site Location Ravensdale, WA **Sample ID** LMW-2-1206

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 – 6.36 ft below TOC (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
3 – 40 mL	VOA	VOA Vial	HCl
1 – 500 ml (filter)	Metals	HDPE	HNO3
2 – 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-3-1206

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 – 11.32 ft below TOC (bottom at ft, 4-in casing)

Sand Pack Interval – 47.1 to 64.8 ft bgs (8-in hole)

Packer Depth – NA (18 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

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

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-4-1206

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 – 8.32 ft below TOC (bottom at ft, 4-in casing)

Sand Pack Interval – 189 to 209 ft bgs (11.7 gal/sandpack vol)

Packer Depth – 187.3 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
3 – 40 mL	VOA	VOA Vial	HCl
1 – 500 ml (filter)	Metals	HDPE	HNO3
2 – 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-5-1206

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 – 12.87 ft below TOC (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
3 – 40 mL	VOA	VOA Vial	HCl
1 – 500 ml (filter)	Metals	HDPE	HNO3
2 – 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-6-1206

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 – 25.32 ft below TOC

(23.5 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

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

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-7-1206

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 – 225.7 ft below TOC

(23 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

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

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-8-1206

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 – 3.28 ft below TOC (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
3 – 40 mL	VOA	VOA Vial	HCl
1 – 500 ml (filter)	Metals	HDPE	HNO3
2 – 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-9-1206

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 – 98.68 ft below TOC (bottom at 159 ft, 2-in casing) (10.3 gal/casing vol)

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

Packer Depth – NA (20 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

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

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-10-1206

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 ft below TOC (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
3 – 40 mL	VOA	VOA Vial	HCl
1 – 500 ml (filter)	Metals	HDPE	HNO3
2 – 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-11-1206

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 – 156.56 ft below TOC (bottom at 707 ft, 4-in casing) (363 gal/casing vol)

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

Packer Depth – NA (372 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

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

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____