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July 15, 2008

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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 – MAY, 2008**

Dear Mr. Kombol:

Golder Associates Inc. (Golder) completed an interim groundwater monitoring event at the Landsburg Mine Site during May, 2008. 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. Groundwater samples were also collected 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,

Several volatile organics compounds associated with fuels had previously been detected from newly installed monitoring wells during previous groundwater monitoring events, but were not detected in this most recent sampling periods. Groundwater monitoring results of LMW-10, after its installation, detected trace concentrations (<1 ug/L) of benzene and toluene (April/May, 2004 data; August, 2004 data; and May 2005 data). Several groundwater samples, obtained from LMW-11 after installation, also contained benzene, toluene, and xylenes at trace concentrations and below drinking water 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 five sampling periods obtained in February 2006, December 2006, June 2007, November 2007, and Mat 2008. 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.

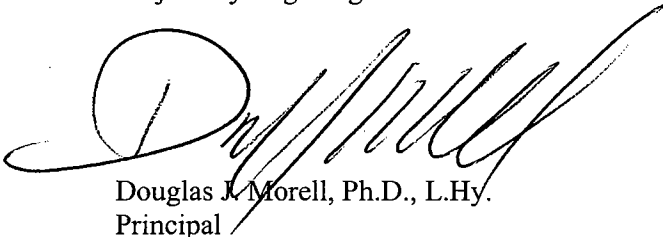
If you have any questions or require any additional information, please contact Douglas Morell at (425) 883-0777.

Sincerely,

GOLDER ASSOCIATES INC.



for Ian Young,
Project Hydrogeologist



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

Attachments: Tables 1-2
Figure
Appendices A-B

cc: Landsburg Mine Site PLP Group
Jerome Cruz, Ecology

IY/DJM/tp

- 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, of Bothell, Washington, for analyses. 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. Table 2 presents the field parameter measurements and laboratory analytical results for each groundwater sample. Laboratory analyses did not detect any volatile organic compound (VOC) or petroleum hydrocarbon (HCID) in any of the groundwater samples. The primary parameters detected in groundwater samples were metals that are naturally occurring. The method reporting limits (MRLs) and method detection limits (MDLs) for all analytes were at or below acceptable concentrations under the Model Toxics Control Act (MTCA).

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 May, 2008 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 deep well (LMW-11) contained total arsenic at a concentration of 6.9 µg/L, which is below the Washington State primary drinking water MCL of 10 ug/L, but higher than the MTCA groundwater cleanup level of 5 µg/L. Arsenic is also a naturally occurring metal commonly detectable in groundwater and the unfiltered sample contain suspended solid particles probably from 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. 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.

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

TABLES

Groundwater Elevation Data Collected May 6, 2008
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	9:20 AM	9:25 AM	11:10 AM	8:40 AM	11:05 AM	8:25 AM	9:40 AM	11:15 AM	8:45 AM	8:20 AM	10:55 AM	8:05 AM	8:42 AM	NA	NA
Measured to Top of PVC	ft bgs	141.86	131.18	6.86	11.90	8.88	13.44	23.42	225.73	3.97	99.38	0.00	157.26	6.51	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	623.30	628.33	610.87	644.85	610.38	644.83	609.91	545.78	643.00	644.61	618.87	644.61	644.86	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 accommodate well inclination of 20° from vertical
 NA = Not applicable.
 NC = Data not collected.

TABLE 2

May 2008 Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2	LMW-3	LMW-4	LMW-5	LMW-6	LMW-7	LMW-8	LMW-9	LMW-10	LMW-11
		11/14/2007	11/14/2007	11/14/2007	11/14/2007	1/16/2008	1/16/2008	1/13/2007	1/18/2008	1/17/2008	11/16/2007
Field Parameter											
pH	std	6.59	7.43	6.84	6.74	6.69	6.97	6.64	6.89	8.44	7.11
Conductivity	uS/cm	746	268	784	677	183	NA	462	510	315	417
Dissolved Oxygen	mg/L	0.12	0.16	0.12	0.21	0.21	NA	0.26	0.18	0.11	0.28
Temperature	°C	11.2	11.6	10.9	11.1	11.3	NA	14.1	15.6	9.8	10.4
Redox Potential (E _h)	Rel mV	-241	-20.9	-261	-166	-90.3	NA	-94.2	-130.0	-203	-152
Turbidity	NTU	0.47	0.44	0.54	0.63	0.83	NA	0.44	0.71	0.52	1.24
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	0.452	0.20 U
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
Arsenic	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00266	0.0017	0.001 U	0.001 U	0.00694
Barium	mg/L	0.325	0.0739	0.368	0.279	0.103	0.465	0.0416	0.298	0.0159	0.257
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
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
Calcium	mg/L	119	35	121	103.0	26.9	55.5	61.2	83.9	6.33	63.3
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
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
Copper	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Iron	mg/L	0.15 U	0.15 U	0.839	0.204	2.1	1.22	10.4	1.780	2.70	1.6
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
Magnesium	mg/L	75.1	14.6	74.8	60.1	13.5	26	34.3	47.9	2.18	27.9
Manganese	mg/L	0.228	0.0464	0.167	0.244	0.0295	0.0288	0.134	0.172	0.01 U	0.224
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
Nickel	mg/L	0.00109	0.00102	0.00114	0.001 U	0.001 U	0.001 U	0.001 U	0.00114	0.001 U	0.00107
Potassium	mg/L	3.7	2.0 U	4.14	3.0 U	3.0 U	3.00	3.0 U	3.0 U	2.0 U	2.0 U
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
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 U
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	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
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	0.00142
Zinc	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Volatile Organic Compounds											
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	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
Bromobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Bromodichloromethane	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
Bromoform	µg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Bromomethane	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Butanone	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
n-Butylbenzene	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

TABLE 2

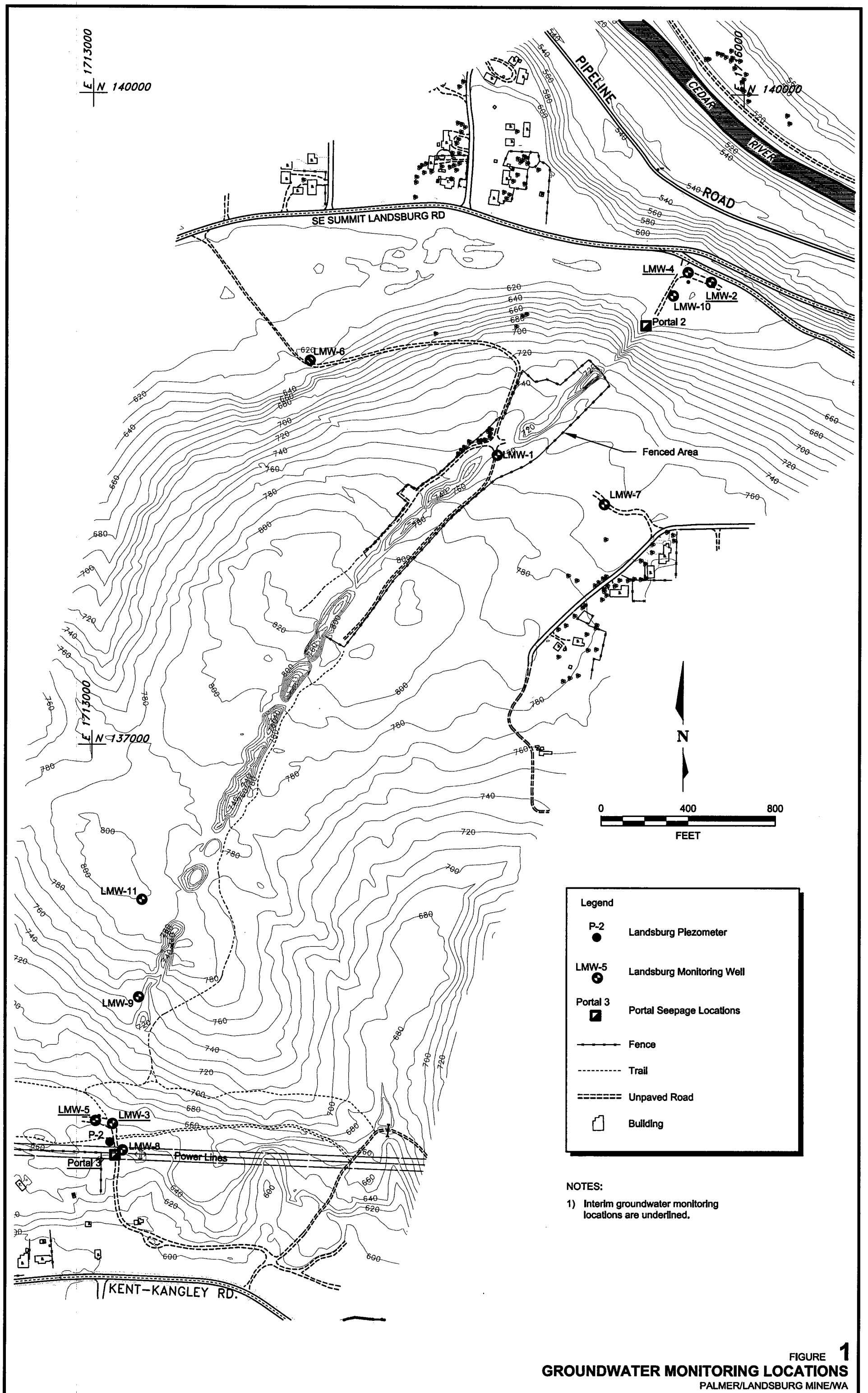
May 2008 Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2 11/14/2007	LMW-3 11/14/2007	LMW-4 11/14/2007	LMW-5 11/14/2007	LMW-6 1/16/2008	LMW-6 Duplicate	LMW-7 1/16/2008	LMW-8 11/13/2007	LMW-9 1/18/2008	LMW-10 1/17/2008	LMW-11 11/16/2007
sec-Butylbenzene	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
tert-Butylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	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
Chlorobenzene	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
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
Chloroform	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
Chloromethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chlorotoluene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	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
1,2-Dibromo-3-chloropropane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-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
Dibromomethane	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
1,2-Dichlorobenzene	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
1,4-Dichlorobenzene	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
Dichlorodifluoromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	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
1,2-Dichloroethane	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
1,1-Dichloroethene	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
cis-1,2-Dichloroethene	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
trans-1,2-Dichloroethene	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
1,2-Dichloropropane	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
1,3-Dichloropropane	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
2,2-Dichloropropane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	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
cis-1,3-Dichloropropene	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
trans-1,3-Dichloropropene	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
Ethylbenzene	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
Hexachlorobutadiene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl tert-butyl ether	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Hexanone	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-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
Isopropylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	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
4-Methyl-2-pentanone	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 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
Naphthalene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Propylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE 2
May 2008 Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2 11/14/2007	LMW-3 11/14/2007	LMW-4 11/14/2007	LMW-5 11/14/2007	LMW-6 1/16/2008	LMW-6 Duplicate	LMW-7 1/16/2008	LMW-8 11/13/2007	LMW-9 1/18/2008	LMW-10 1/17/2008	LMW-11 11/16/2007
1,2,3-Trichlorobenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1,2-Tetrachloroethane	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
1,1,1,2,2-Tetrachloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	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
Toluene	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
1,1,1-Trichloroethane	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
1,1,2-Trichloroethane	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
Trichloroethene	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
Trichlorofluoromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	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
1,3,5-Trimethylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 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
o-Xylene	µg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
m,p-Xylene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes	µg/L	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 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
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
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
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
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
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

FIGURE



Legend

- P-2 Landsburg Piezometer
- LMW-5 Landsburg Monitoring Well
- Portal 3 Portal Seepage Locations
- Fence
- Trail
- Unpaved Road
- Building

NOTES:
 1) Interim groundwater monitoring locations are underlined.

FIGURE 1
GROUNDWATER MONITORING LOCATIONS
 PALMER/LANDBURG MINE/WA

APPENDIX A
LABORATORY ANALYTICAL REPORTS

May 20, 2008

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

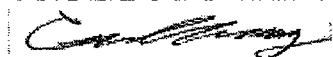
RE: Landsburg Mine

Enclosed are the results of analyses for samples received by the laboratory on 05/09/08 16:20.
The following list is a summary of the Work Orders contained in this report, generated on 05/20/08
16:06.

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

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRE0129	Landsburg Mine	923-1000-002-R273

TestAmerica Seattle



Curtis D. Armstrong For Blake T. Meinert, Project Manager

*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.*



Golder Associates Inc.

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

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

Report Created:
05/20/08 16:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-9-0508	BRE0129-01	Water	05/09/08 14:50	05/09/08 16:20
LMW-10-0508	BRE0129-02	Water	05/09/08 08:25	05/09/08 16:20
LMW-11-0508	BRE0129-03	Water	05/09/08 12:40	05/09/08 16:20
Trip Blank	BRE0129-04	Water	05/09/08 16:20	05/09/08 16:20

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
--	---	-----------------------------------

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0129-01 (LMW-9-0508)		Water				Sampled: 05/09/08 14:50				
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E12014	05/12/08 09:03	05/15/08 20:00	
Kerosene Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.3%		50 - 150 %	"				"
<i>Octacosane</i>			110%		50 - 150 %	"				"
BRE0129-02 (LMW-10-0508)		Water				Sampled: 05/09/08 08:25				
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E12014	05/12/08 09:03	05/15/08 20:26	
Kerosene Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.1%		50 - 150 %	"				"
<i>Octacosane</i>			107%		50 - 150 %	"				"
BRE0129-03 (LMW-11-0508)		Water				Sampled: 05/09/08 12:40				
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E12014	05/12/08 09:03	05/15/08 20:52	
Kerosene Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			88.5%		50 - 150 %	"				"
<i>Octacosane</i>			111%		50 - 150 %	"				"

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Curtis D. Armstrong For Blake T. Meinert, Project Manager

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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0129-01 (LMW-9-0508)		Water			Sampled: 05/09/08 14:50					
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 12:35	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E13017	05/13/08 08:06	05/13/08 15:47	
Arsenic	"	ND	---	0.00100	"	"	"	"	"	
Barium	"	0.298	---	0.0100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	83.9	---	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 12:35	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:47	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	1.78	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 12:35	
Lead	EPA 6020	ND	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:47	
Magnesium	EPA 6010B	47.9	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 12:35	
Manganese	EPA 6020	0.172	---	0.0100	"	"	8E13017	05/13/08 08:06	05/13/08 15:47	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:33	
Nickel	EPA 6020	0.00114	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:47	
Potassium	EPA 6010B	ND	---	3.00	"	"	8E12043	05/12/08 14:12	05/13/08 12:35	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:47	
Silver	"	ND	---	0.00100	"	"	"	"	"	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Vanadium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	
BRE0129-02 (LMW-10-0508)		Water			Sampled: 05/09/08 08:25					
Aluminum	EPA 6010B	0.452	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 12:39	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E13017	05/13/08 08:06	05/13/08 15:53	
Arsenic	"	ND	---	0.00100	"	"	"	"	"	
Barium	"	0.0159	---	0.0100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	6.33	---	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 12:39	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:53	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	2.70	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 12:39	
Lead	EPA 6020	ND	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:53	
Magnesium	EPA 6010B	2.18	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 12:39	
Manganese	EPA 6020	ND	---	0.0100	"	"	8E13017	05/13/08 08:06	05/13/08 15:53	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:36	
Nickel	EPA 6020	ND	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:53	
Potassium	EPA 6010B	ND	---	3.00	"	"	8E12043	05/12/08 14:12	05/13/08 12:39	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:53	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
--	---	-----------------------------------

Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0129-02 (LMW-10-0508)		Water			Sampled: 05/09/08 08:25					
Silver	EPA 6020	ND	---	0.00100	mg/l	1x	8E13017	05/13/08 08:06	05/13/08 15:53	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Vanadium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	
BRE0129-03 (LMW-11-0508)		Water			Sampled: 05/09/08 12:40					
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 12:42	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E13017	05/13/08 08:06	05/13/08 15:59	
Arsenic	"	0.00694	---	0.00100	"	"	"	"	"	
Barium	"	0.257	---	0.0100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	63.3	---	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 12:42	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:59	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	1.60	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 12:42	
Lead	EPA 6020	ND	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:59	
Magnesium	EPA 6010B	27.9	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 12:42	
Manganese	EPA 6020	0.224	---	0.0100	"	"	8E13017	05/13/08 08:06	05/13/08 15:59	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:38	
Nickel	EPA 6020	0.00107	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:59	
Potassium	EPA 6010B	ND	---	3.00	"	"	8E12043	05/12/08 14:12	05/13/08 12:42	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E13017	05/13/08 08:06	05/13/08 15:59	
Silver	"	ND	---	0.00100	"	"	"	"	"	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Vanadium	"	0.00142	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0129-01 (LMW-9-0508)		Water				Sampled: 05/09/08 14:50				
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 04:51	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BRE0129-01 (LMW-9-0508)		Water			Sampled: 05/09/08 14:50					
Isopropylbenzene	EPA 8260B	ND	---	0.500	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 04:51	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			96.1%		76 - 138 %	"				"
Toluene-d8			89.6%		80 - 120 %	"				"
4-BFB			92.2%		80 - 120 %	"				"

BRE0129-02 (LMW-10-0508)		Water			Sampled: 05/09/08 08:25					
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 05:18	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	

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Curtis D. Armstrong, For Blake T. Meinert, Project Manager

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0129-02 (LMW-10-0508)										
		Water								
						Sampled: 05/09/08 08:25				
Chlorobenzene	EPA 8260B	ND	---	0.200	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 05:18	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	
Isopropylbenzene	"	ND	---	0.500	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0129-02 (LMW-10-0508)		Water			Sampled: 05/09/08 08:25					
1,1,1-Trichloroethane	EPA 8260B	ND	---	0.200	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 05:18	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				100%		76 - 138 %	"			"
<i>Toluene-d8</i>				88.0%		80 - 120 %	"			"
<i>+BFB</i>				92.8%		80 - 120 %	"			"

BRE0129-03 (LMW-11-0508)		Water			Sampled: 05/09/08 12:40					
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 05:45	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0129-03 (LMW-11-0508)		Water			Sampled: 05/09/08 12:40					
Dichlorodifluoromethane	EPA 8260B	ND	---	0.500	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 05:45	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	
Isopropylbenzene	"	ND	---	0.500	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4

97.4%

76 - 138 %

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BRE0129-03 (LMW-11-0508)		Water			Sampled: 05/09/08 12:40					
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<i>Toluene-d8</i>			91.2%		80 - 120 %	1x			05/17/08 05:45	
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<i>4-BFB</i>			91.2%		80 - 120 %	"			"	
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BRE0129-04 (Trip Blank)		Water			Sampled: 05/09/08 16:20					
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Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 02:36	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0129-04 (Trip Blank)		Water			Sampled: 05/09/08 16:20					
Ethylbenzene	EPA 8260B	ND	—	0.200	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 02:36	
Hexachlorobutadiene	"	ND	—	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	—	1.00	"	"	"	"	"	
n-Hexane	"	ND	—	1.00	"	"	"	"	"	
2-Hexanone	"	ND	—	2.00	"	"	"	"	"	
Isopropylbenzene	"	ND	—	0.500	"	"	"	"	"	
p-Isopropyltoluene	"	ND	—	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	—	2.00	"	"	"	"	"	
Methylene chloride	"	ND	—	2.00	"	"	"	"	"	
Naphthalene	"	ND	—	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	—	0.500	"	"	"	"	"	
Styrene	"	ND	—	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	—	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	—	0.200	"	"	"	"	"	
Toluene	"	ND	—	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
Trichloroethene	"	ND	—	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	—	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	—	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	—	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	—	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	—	0.200	"	"	"	"	"	
o-Xylene	"	ND	—	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	—	0.500	"	"	"	"	"	
Total Xylenes	"	ND	—	0.750	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		97.8%		76 - 138 %	"				"
	Toluene-d8		92.0%		80 - 120 %	"				"
	4-BFB		94.4%		80 - 120 %	"				"

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Total Metals by EPA 200 Series Methods
TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0129-01 (LMW-9-0508)		Water			Sampled: 05/09/08 14:50					
Sodium	EPA 200.7	16.7	---	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 12:23	
BRE0129-02 (LMW-10-0508)		Water			Sampled: 05/09/08 08:25					
Sodium	EPA 200.7	77.7	---	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 12:29	
BRE0129-03 (LMW-11-0508)		Water			Sampled: 05/09/08 12:40					
Sodium	EPA 200.7	19.7	---	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 12:33	

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E12014 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (8E12014-BLK1) Extracted: 05/12/08 09:03

Gx Range Hydrocarbons	NWTPH-HCI D	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	05/15/08 15:39	
Kerosene Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Insulating Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Lube Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.4%</i>	<i>Limits: 50-150%</i>		<i>"</i>							<i>05/15/08 15:39</i>	
<i>Octacosane</i>			<i>115%</i>	<i>50-150%</i>		<i>"</i>							<i>"</i>	

LCS (8E12014-BS1) Extracted: 05/12/08 09:03

Diesel Range Hydrocarbons	NWTPH-HCI D	DET	---	0.630	mg/l	1x	--	2.00	96.4%	(58-125)	--	--	05/15/08 16:06	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 50-150%</i>		<i>"</i>							<i>05/15/08 16:06</i>	
<i>Octacosane</i>			<i>118%</i>	<i>50-150%</i>		<i>"</i>							<i>"</i>	

LCS Dup (8E12014-BSD1) Extracted: 05/12/08 09:03

Diesel Range Hydrocarbons	NWTPH-HCI D	DET	---	0.630	mg/l	1x	--	2.00	94.2%	(58-125)	2.27%	(40)	05/15/08 16:31	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 50-150%</i>		<i>"</i>							<i>05/15/08 16:31</i>	
<i>Octacosane</i>			<i>116%</i>	<i>50-150%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: **8E12043** Water Preparation Method: **EPA 3010A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (8E12043-BLK1) Extracted: 05/12/08 14:12

Calcium	EPA 6010B	ND	---	0.750	mg/l	1x	--	--	--	--	--	--	05/13/08 11:33	
Magnesium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Potassium	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Iron	"	ND	---	0.150	"	"	--	--	--	--	--	--	"	
Aluminum	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	

LCS (8E12043-BS1) Extracted: 05/12/08 14:12

Potassium	EPA 6010B	9.22	---	3.00	mg/l	1x	--	10.0	92.2%	(80-120)	--	--	05/13/08 11:36	
Calcium	"	4.88	---	0.750	"	"	--	5.00	97.6%	"	--	--	"	
Iron	"	5.27	---	0.150	"	"	--	"	105%	"	--	--	"	
Aluminum	"	5.09	---	0.200	"	"	--	"	102%	"	--	--	"	
Magnesium	"	4.85	---	0.500	"	"	--	"	97.0%	"	--	--	"	

Duplicate (8E12043-DUP1) QC Source: BRE0088-01 Extracted: 05/12/08 14:12

Iron	EPA 6010B	ND	---	0.150	mg/l	1x	ND	--	--	--	(30)	--	05/13/08 11:43	
Magnesium	"	14.8	---	0.500	"	"	14.6	--	--	--	0.816%	"	"	
Potassium	"	ND	---	3.00	"	"	ND	--	--	--	0.460%	"	"	
Calcium	"	35.4	---	0.750	"	"	35.0	--	--	--	1.19%	(25)	"	
Aluminum	"	ND	---	0.200	"	"	ND	--	--	--	NR	"	"	

Matrix Spike (8E12043-MS1) QC Source: BRE0088-01 Extracted: 05/12/08 14:12

Aluminum	EPA 6010B	5.26	---	0.200	mg/l	1x	ND	5.00	105%	(74-142)	--	--	05/13/08 11:40	
Iron	"	5.40	---	0.150	"	"	ND	"	108%	(78-130)	--	--	"	
Potassium	"	11.5	---	3.00	"	"	1.53	10.0	99.3%	(75-127)	--	--	"	
Calcium	"	41.4	---	0.750	"	"	35.0	5.00	127%	(70-137)	--	--	"	
Magnesium	"	20.5	---	0.500	"	"	14.6	"	117%	(76-129)	--	--	"	

Post Spike (8E12043-PS1) QC Source: BRE0088-01 Extracted: 05/12/08 14:12

Magnesium	EPA 6010B	20.0	---		ug/ml	1x	14.6	5.00	106%	(75-125)	--	--	05/13/08 11:47	
Potassium	"	11.5	---		"	"	1.53	10.0	99.4%	"	--	--	"	
Calcium	"	40.0	---		"	"	35.0	5.00	99.2%	"	--	--	"	
Iron	"	5.58	---		"	"	0.0473	"	111%	"	--	--	"	
Aluminum	"	5.36	---		"	"	0.00450	"	107%	"	--	--	"	

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 Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E13017 Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E13017-BLK1)										Extracted: 05/13/08 08:06				
Cadmium	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	05/13/08 15:17	
Manganese	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Antimony	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cobalt	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Beryllium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Vanadium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	

LCS (8E13017-BS1)										Extracted: 05/13/08 08:06				
Silver	EPA 6020	0.0763	---	0.00100	mg/l	1x	--	0.0800	95.3%	(80-120)	--	--	05/13/08 15:23	
Nickel	"	0.0749	---	0.00100	"	"	--	"	93.6%	"	--	--	"	
Vanadium	"	0.0798	---	0.00100	"	"	--	"	99.8%	"	--	--	"	
Cadmium	"	0.0755	---	0.00100	"	"	--	"	94.4%	"	--	--	"	
Chromium	"	0.0793	---	0.00100	"	"	--	"	99.2%	"	--	--	"	
Selenium	"	0.0740	---	0.00100	"	"	--	"	92.5%	"	--	--	"	
Arsenic	"	0.0743	---	0.00100	"	"	--	"	92.8%	"	--	--	"	
Lead	"	0.0782	---	0.00100	"	"	--	"	97.8%	"	--	--	"	
Cobalt	"	0.0782	---	0.00100	"	"	--	"	97.8%	"	--	--	"	
Beryllium	"	0.0736	---	0.00100	"	"	--	"	92.0%	"	--	--	"	
Manganese	"	0.0798	---	0.0100	"	"	--	"	99.7%	"	--	--	"	
Barium	"	0.0786	---	0.0100	"	"	--	"	98.2%	"	--	--	"	
Antimony	"	0.0573	---	0.00300	"	"	--	0.0600	95.4%	"	--	--	"	
Zinc	"	0.0779	---	0.0100	"	"	--	0.0800	97.4%	"	--	--	"	
Copper	"	0.0755	---	0.00100	"	"	--	"	94.4%	"	--	--	"	
Thallium	"	0.0791	---	0.00100	"	"	--	"	98.8%	"	--	--	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle


QC Batch: 8E13017 Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8E13017-DUP1)			QC Source: BRE0129-01				Extracted: 05/13/08 08:06							
Chromium	EPA 6020	ND	---	0.00100	mg/l	1x	ND	--	--	--	4.08%	(20)	05/13/08 15:41	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Copper	"	ND	---	0.00100	"	"	ND	--	--	--	15.4%	"	"	
Barium	"	0.294	---	0.0100	"	"	0.298	--	--	--	1.35%	"	"	
Zinc	"	ND	---	0.0100	"	"	ND	--	--	--	"	"	"	
Vanadium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Selenium	"	ND	---	0.00100	"	"	ND	--	--	--	9.68%	"	"	
Arsenic	"	ND	---	0.00100	"	"	ND	--	--	--	9.52%	"	"	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Nickel	"	0.00114	---	0.00100	"	"	0.00114	--	--	--	0.00%	"	"	
Beryllium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Manganese	"	0.173	---	0.0100	"	"	0.172	--	--	--	0.812%	"	"	
Thallium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Antimony	"	ND	---	0.00300	"	"	ND	--	--	--	"	"	"	
Silver	"	ND	---	0.00100	"	"	ND	--	--	--	NR	(50)	"	
Cobalt	"	ND	---	0.00100	"	"	ND	--	--	--	NR	(20)	"	

Matrix Spike (8E13017-MS1)			QC Source: BRE0129-01				Extracted: 05/13/08 08:06							
Cobalt	EPA 6020	0.0740	---	0.00100	mg/l	1x	ND	0.0800	92.5%	(71-131)	--	--	05/13/08 15:35	
Silver	"	0.0725	---	0.00100	"	"	ND	"	90.6%	(19-153)	--	--	"	
Arsenic	"	0.0741	---	0.00100	"	"	0.000400	"	92.2%	(75-125)	--	--	"	
Vanadium	"	0.0783	---	0.00100	"	"	ND	"	97.9%	(83-120)	--	--	"	
Beryllium	"	0.0724	---	0.00100	"	"	ND	"	90.5%	(75-125)	--	--	"	
Nickel	"	0.0711	---	0.00100	"	"	0.00114	"	87.5%	(78-120)	--	--	"	
Cadmium	"	0.0721	---	0.00100	"	"	ND	"	90.1%	(75-125)	--	--	"	
Antimony	"	0.0584	---	0.00300	"	"	ND	0.0600	97.4%	(74-133)	--	--	"	
Thallium	"	0.0781	---	0.00100	"	"	ND	0.0800	97.6%	(80-120)	--	--	"	
Chromium	"	0.0764	---	0.00100	"	"	0.000500	"	94.9%	"	--	--	"	
Lead	"	0.0758	---	0.00100	"	"	ND	"	94.8%	"	--	--	"	
Copper	"	0.0713	---	0.00100	"	"	0.000630	"	88.3%	(75-125)	--	--	"	
Selenium	"	0.0731	---	0.00100	"	"	0.000650	"	90.6%	(58-120)	--	--	"	
Manganese	"	0.249	---	0.0100	"	"	0.172	"	96.5%	(65-145)	--	--	"	
Zinc	"	0.0754	---	0.0100	"	"	ND	"	94.3%	(53-125)	--	--	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: **8E13017** Water Preparation Method: **EPA 3020A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Matrix Spike (8E13017-MS2)				QC Source: BRE0129-01				Extracted: 05/13/08 08:06						
Barium	EPA 6020	0.404	---	0.0200	mg/l	2x	0.298	0.0800	133%	(75-125)	--	--	05/14/08 11:01	M1

Post Spike (8E13017-PS1)				QC Source: BRE0129-01				Extracted: 05/13/08 08:06						
Thallium	EPA 6020	0.101	---		ug/ml	1x	0.0000500	0.100	100%	(75-125)	--	--	05/13/08 15:29	
Zinc	"	0.0957	---		"	"	0.00265	"	92.6%	"	--	--	"	
Beryllium	"	0.0924	---		"	"	-0.0000400	0.0995	92.9%	"	--	--	"	
Cobalt	"	0.0960	---		"	"	0.0000700	0.100	95.9%	"	--	--	"	
Lead	"	0.0976	---		"	"	-0.0000100	"	97.1%	"	--	--	"	
Selenium	"	0.0937	---		"	"	0.000650	"	93.0%	"	--	--	"	
Vanadium	"	0.102	---		"	"	0.000130	"	101%	"	--	--	"	
Nickel	"	0.0920	---		"	"	0.00114	0.0995	91.3%	"	--	--	"	
Cadmium	"	0.0959	---		"	"	-0.0000800	0.100	95.9%	"	--	--	"	
Manganese	"	0.260	---		"	"	0.172	"	88.2%	"	--	--	"	
Antimony	"	0.0476	---		"	"	0.000170	0.0510	92.9%	"	--	--	"	
Copper	"	0.0933	---		"	"	0.000630	0.100	92.2%	"	--	--	"	
Silver	"	0.0921	---		"	"	-0.0000200	"	92.1%	"	--	--	"	
Chromium	"	0.100	---		"	"	0.000500	"	99.2%	"	--	--	"	
Arsenic	"	0.0976	---		"	"	0.000400	0.0995	97.7%	"	--	--	"	

Post Spike (8E13017-PS2)				QC Source: BRE0129-01				Extracted: 05/13/08 08:06						
Barium	EPA 6020	0.423	---		ug/ml	2x	0.298	0.100	126%	(75-125)	--	--	05/14/08 10:55	S3

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Curtis D. Armstrong For Blake T. Meinert, Project Manager

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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: **8E14050** Water Preparation Method: **EPA 7470A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E14050-BLK1)										Extracted: 05/14/08 19:23				
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	05/15/08 12:51	
LCS (8E14050-BS1)										Extracted: 05/14/08 19:23				
Mercury	EPA 7470A	0.00523	---	0.000200	mg/l	1x	--	0.00500	105%	(80-120)	--	--	05/15/08 12:53	
LCS Dup (8E14050-BSD1)										Extracted: 05/14/08 19:23				
Mercury	EPA 7470A	0.00523	---	0.000200	mg/l	1x	--	0.00500	105%	(80-120)	0.0466% (20)	--	05/15/08 12:56	
Matrix Spike (8E14050-MS1)										QC Source: BRE0151-01 Extracted: 05/14/08 19:23				
Mercury	EPA 7470A	0.00447	---	0.000200	mg/l	1x	ND	0.00500	89.4%	(75-125)	--	--	05/15/08 12:58	
Matrix Spike Dup (8E14050-MSD1)										QC Source: BRE0151-01 Extracted: 05/14/08 19:23				
Mercury	EPA 7470A	0.00456	---	0.000200	mg/l	1x	ND	0.00500	91.2%	(75-125)	2.03% (20)	--	05/15/08 13:01	

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E16057 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL ^A	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E16057-BLK1)													Extracted: 05/16/08 18:00	
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	05/17/08 01:43	
Benzene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
Bromobenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--		
Bromochloromethane	"	ND	---	0.250	"	"	--	--	--	--	--	--		
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--		
Bromoform	"	ND	---	0.250	"	"	--	--	--	--	--	--		
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--		
2-Butanone	"	ND	---	2.00	"	"	--	--	--	--	--	--		
n-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
sec-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
tert-Butylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--		
Carbon disulfide	"	ND	---	0.500	"	"	--	--	--	--	--	--		
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--		
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--		
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
2-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--		
4-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--		
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--		
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,2-Dibromoethane	"	ND	---	0.200	"	"	--	--	--	--	--	--		
Dibromomethane	"	ND	---	0.200	"	"	--	--	--	--	--	--		
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
Dichlorodifluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--		
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--		
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--		
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--		
1,3-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--		
2,2-Dichloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--		
1,1-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--		
Ethylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--		

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E16057 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes																																								
										Extracted: 05/16/08 18:00																																												
Blank (8E16057-BLK1)																																																						
Hexachlorobutadiene	EPA 8260B	ND	---	2.50	ug/l	1x	--	--	--	--	--	--	05/17/08 01:43																																									
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"																																									
n-Hexane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"																																									
2-Hexanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"																																									
Isopropylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
p-Isopropyltoluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"																																									
Methylene chloride	"	ND	---	2.00	"	"	--	--	--	--	--	--	"																																									
Naphthalene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"																																									
n-Propylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
Styrene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"																																									
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"																																									
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
1,1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
Toluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
o-Xylene	"	ND	---	0.250	"	"	--	--	--	--	--	--	"																																									
m,p-Xylene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
Total Xylenes	"	ND	---	0.750	"	"	--	--	--	--	--	--	"																																									
<table border="0"> <tr> <td>Surrogate(s):</td> <td>1,2-DCA-d4</td> <td>Recovery:</td> <td>94.8%</td> <td>Limits:</td> <td>76-138%</td> <td>"</td> <td colspan="6"></td> <td>05/17/08 01:43</td> </tr> <tr> <td></td> <td>Toluene-d8</td> <td></td> <td>95.1%</td> <td></td> <td>80-120%</td> <td>"</td> <td colspan="6"></td> <td>"</td> </tr> <tr> <td></td> <td>4-BFB</td> <td></td> <td>94.2%</td> <td></td> <td>80-120%</td> <td>"</td> <td colspan="6"></td> <td>"</td> </tr> </table>													Surrogate(s):	1,2-DCA-d4	Recovery:	94.8%	Limits:	76-138%	"							05/17/08 01:43		Toluene-d8		95.1%		80-120%	"							"		4-BFB		94.2%		80-120%	"							"
Surrogate(s):	1,2-DCA-d4	Recovery:	94.8%	Limits:	76-138%	"							05/17/08 01:43																																									
	Toluene-d8		95.1%		80-120%	"							"																																									
	4-BFB		94.2%		80-120%	"							"																																									

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: **8E16057** Water Preparation Method: **EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (8E16057-BS1)													Extracted: 05/16/08 18:00	
Benzene	EPA 8260B	33.0	---	0.200	ug/l	1x	--	40.0	82.6%	(80-120)	--	--	05/16/08 23:21	
Chlorobenzene	"	35.4	---	0.200	"	"	--	"	88.4%	"	--	--	"	
1,1-Dichloroethene	"	37.0	---	0.200	"	"	--	"	92.4%	"	--	--	"	
Methyl tert-butyl ether	"	35.0	---	1.00	"	"	--	"	87.6%	"	--	--	"	
Toluene	"	33.2	---	0.200	"	"	--	"	82.9%	(75-125)	--	--	"	
Trichloroethene	"	34.4	---	0.200	"	"	--	"	85.9%	(80-120)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 92.9%</i>		<i>Limits: 76-138%</i>								<i>05/16/08 23:21</i>		
<i>Toluene-d8</i>		<i>91.4%</i>		<i>80-120%</i>								<i>"</i>		
<i>4-BFB</i>		<i>100%</i>		<i>80-120%</i>								<i>"</i>		

LCS Dup (8E16057-BSD1)													Extracted: 05/16/08 18:00	
Benzene	EPA 8260B	34.0	---	0.200	ug/l	1x	--	40.0	85.1%	(80-120)	3.04%	(20)	05/16/08 23:48	
Chlorobenzene	"	36.2	---	0.200	"	"	--	"	90.6%	"	2.37%	"	"	
1,1-Dichloroethene	"	36.4	---	0.200	"	"	--	"	90.9%	"	1.64%	"	"	
Methyl tert-butyl ether	"	35.5	---	1.00	"	"	--	"	88.8%	"	1.33%	"	"	
Toluene	"	34.2	---	0.200	"	"	--	"	85.4%	(75-125)	3.00%	"	"	
Trichloroethene	"	34.8	---	0.200	"	"	--	"	86.9%	(80-120)	1.13%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 99.2%</i>		<i>Limits: 76-138%</i>								<i>05/16/08 23:48</i>		
<i>Toluene-d8</i>		<i>94.3%</i>		<i>80-120%</i>								<i>"</i>		
<i>4-BFB</i>		<i>97.6%</i>		<i>80-120%</i>								<i>"</i>		

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 16:06
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Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica Spokane

QC Batch: 8050074 Water Preparation Method: Metals

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8050074-BLK1)										Extracted: 05/14/08 10:46				
Sodium	EPA 200.7	ND	---	0.500	mg/l	1x	--	--	--	--	--	--	05/14/08 11:24	
LCS (8050074-BS1)										Extracted: 05/14/08 10:46				
Sodium	EPA 200.7	9.72	---	0.500	mg/l	1x	--	10.0	97.2%	(85-115)	--	--	05/14/08 11:21	
Duplicate (8050074-DUP1)										QC Source: SRE0052-03 Extracted: 05/14/08 10:46				
Sodium	EPA 200.7	41.2	---	0.500	mg/l	1x	40.8	--	--	--	0.901% (20)	--	05/14/08 12:38	
Matrix Spike (8050074-MS1)										QC Source: SRE0052-03 Extracted: 05/14/08 10:46				
Sodium	EPA 200.7	51.1	---	0.500	mg/l	1x	40.8	10.0	102%	(75-125)	--	--	05/14/08 12:44	
Matrix Spike Dup (8050074-MSD1)										QC Source: SRE0052-03 Extracted: 05/14/08 10:46				
Sodium	EPA 200.7	51.0	---	0.500	mg/l	1x	40.8	10.0	101%	(75-125)	0.184% (20)	--	05/14/08 12:50	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager

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Goldier Associates Inc.

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

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

Report Created:
05/20/08 16:06

Notes and Definitions

Report Specific Notes:

- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- 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.

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



May 20, 2008

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 05/08/08 16:50.
The following list is a summary of the Work Orders contained in this report, generated on 05/20/08 15:43.

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

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRE0109	Landsburg Mine	923-1000-002-R273

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-2-0508	BRE0109-01	Water	05/08/08 14:45	05/08/08 16:50
LMW-4-0508	BRE0109-02	Water	05/08/08 15:30	05/08/08 16:50
LMW-6-0508	BRE0109-03	Water	05/08/08 13:40	05/08/08 16:50
LMW-6-0508D	BRE0109-04	Water	05/08/08 13:50	05/08/08 16:50
LMW-EB-0508	BRE0109-05	Water	05/08/08 16:50	05/08/08 16:50

TestAmerica Seattle



Curtis D. Armstrong For Blake T. Meinert, Project Manager

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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-01 (LMW-2-0508)	Water		Sampled: 05/08/08 14:45							
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E12014	05/12/08 09:03	05/15/08 16:58	
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			93.4%	50 - 150 %	"					"
Octacosane			105%	50 - 150 %	"					"
BRE0109-02 (LMW-4-0508)	Water		Sampled: 05/08/08 15:30							
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E12014	05/12/08 09:03	05/15/08 17:24	
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			93.1%	50 - 150 %	"					"
Octacosane			111%	50 - 150 %	"					"
BRE0109-03 (LMW-6-0508)	Water		Sampled: 05/08/08 13:40							
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E12014	05/12/08 09:03	05/15/08 17:50	
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			90.6%	50 - 150 %	"					"
Octacosane			108%	50 - 150 %	"					"
BRE0109-04 (LMW-6-0508D)	Water		Sampled: 05/08/08 13:50							
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E12014	05/12/08 09:03	05/15/08 18:16	
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			96.9%	50 - 150 %	"					"
Octacosane			110%	50 - 150 %	"					"

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-01 (LMW-2-0508)	Water		Sampled: 05/08/08 14:45							
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 12:21	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E12024	05/12/08 09:51	05/13/08 10:42	
Arsenic	"	ND	---	0.00100	"	"	"	"	"	
Barium	"	0.325	---	0.0100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	119	---	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 12:21	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:42	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	ND	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 12:21	
Lead	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:42	
Magnesium	EPA 6010B	75.1	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 12:21	
Manganese	EPA 6020	0.228	---	0.0100	"	"	8E12024	05/12/08 09:51	05/13/08 10:42	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:23	
Nickel	EPA 6020	0.00109	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:42	
Potassium	EPA 6010B	3.70	---	3.00	"	"	8E12043	05/12/08 14:12	05/13/08 12:21	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:42	
Silver	"	ND	---	0.00100	"	"	"	"	"	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Vanadium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	
BRE0109-02 (LMW-4-0508)	Water		Sampled: 05/08/08 15:30							
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 12:25	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E12024	05/12/08 09:51	05/13/08 10:48	
Arsenic	"	ND	---	0.00100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	121	---	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 12:25	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:48	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	0.839	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 12:25	
Lead	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:48	
Magnesium	EPA 6010B	74.8	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 12:25	
Manganese	EPA 6020	0.167	---	0.0100	"	"	8E12024	05/12/08 09:51	05/13/08 10:48	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:26	
Nickel	EPA 6020	0.00114	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:48	
Potassium	EPA 6010B	4.14	---	3.00	"	"	8E12043	05/12/08 14:12	05/13/08 12:25	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:48	
Silver	"	ND	---	0.00100	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-02 (LMW-4-0508)		Water				Sampled: 05/08/08 15:30				
Thallium	EPA 6020	ND	---	0.00100	mg/l	1x	8E12024	05/12/08 09:51	05/13/08 10:48	
Vanadium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	
BRE0109-02RE1 (LMW-4-0508)		Water				Sampled: 05/08/08 15:30				
Barium	EPA 6020	0.368	---	0.0200	mg/l	2x	8E12024	05/12/08 09:51	05/13/08 11:12	
BRE0109-03 (LMW-6-0508)		Water				Sampled: 05/08/08 13:40				
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 12:28	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E12024	05/12/08 09:51	05/13/08 10:54	
Arsenic	"	ND	---	0.00100	"	"	"	"	"	
Barium	"	0.103	---	0.0100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	26.7	----	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 12:28	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:54	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	2.10	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 12:28	
Lead	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:54	
Magnesium	EPA 6010B	13.5	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 12:28	
Manganese	EPA 6020	0.0295	---	0.0100	"	"	8E12024	05/12/08 09:51	05/13/08 10:54	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:28	
Nickel	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:54	
Potassium	EPA 6010B	ND	---	3.00	"	"	8E12043	05/12/08 14:12	05/13/08 12:28	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 10:54	
Silver	"	ND	---	0.00100	"	"	"	"	"	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Vanadium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-04 (LMW-6-0508D)										
		Water								
		Sampled: 05/08/08 13:50								
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 12:32	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E12024	05/12/08 09:51	05/13/08 11:00	
Arsenic	"	ND	---	0.00100	"	"	"	"	"	
Barium	"	0.103	---	0.0100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	26.9	---	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 12:32	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 11:00	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	2.10	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 12:32	
Lead	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 11:00	
Magnesium	EPA 6010B	13.7	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 12:32	
Manganese	EPA 6020	0.0288	---	0.0100	"	"	8E12024	05/12/08 09:51	05/13/08 11:00	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:31	
Nickel	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 11:00	
Potassium	EPA 6010B	ND	---	3.00	"	"	8E12043	05/12/08 14:12	05/13/08 12:32	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E12024	05/12/08 09:51	05/13/08 11:00	
Silver	"	ND	---	0.00100	"	"	"	"	"	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Vanadium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	

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Curtis D. Armstrong, For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL ^A	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-01 (LMW-2-0508)		Water			Sampled: 05/08/08 14:45					
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 03:03	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Goldier Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-01 (LMW-2-0508)		Water			Sampled: 05/08/08 14:45					
Isopropylbenzene	EPA 8260B	ND	---	0.500	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 03:03	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		97.8%		76 - 138 %	"				"
	Toluene-d8		89.4%		80 - 120 %	"				"
	4-BFB		94.6%		80 - 120 %	"				"

BRE0109-02 (LMW-4-0508)		Water			Sampled: 05/08/08 15:30					
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 03:30	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-02 (LMW-4-0508)										
		Water					Sampled: 05/08/08 15:30			
Chlorobenzene	EPA 8260B	ND	----	0.200	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 03:30	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	0.200	"	"	"	"	"	
Dibromomethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
n-Hexane	"	ND	----	1.00	"	"	"	"	"	
2-Hexanone	"	ND	----	2.00	"	"	"	"	"	
Isopropylbenzene	"	ND	----	0.500	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	2.00	"	"	"	"	"	
Methylene chloride	"	ND	----	2.00	"	"	"	"	"	
Naphthalene	"	ND	----	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	----	0.500	"	"	"	"	"	
Styrene	"	ND	----	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	----	0.200	"	"	"	"	"	
Toluene	"	ND	----	0.200	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-02 (LMW-4-0508)		Water			Sampled: 05/08/08 15:30					
1,1,1-Trichloroethane	EPA 8260B	ND	---	0.200	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 03:30	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		94.9%		76 - 138 %	"				"
	Toluene-d8		91.4%		80 - 120 %	"				"
	4-BFB		95.4%		80 - 120 %	"				"

BRE0109-03 (LMW-6-0508)		Water			Sampled: 05/08/08 13:40					
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 03:57	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-03 (LMW-6-0508)		Water			Sampled: 05/08/08 13:40					
Dichlorodifluoromethane	EPA 8260B	ND	---	0.500	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 03:57	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	
Isopropylbenzene	"	ND	---	0.500	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			98.6%		76 - 138 %	"				"

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-03 (LMW-6-0508)		Water			Sampled: 05/08/08 13:40					
Toluene-d8			90.2%		80 - 120 %	1x			05/17/08 03:57	
4-BFB			91.9%		80 - 120 %	"			"	
BRE0109-04 (LMW-6-0508D)		Water			Sampled: 05/08/08 13:50					
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 04:24	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-04 (LMW-6-0508D)		Water			Sampled: 05/08/08 13:50					
Ethylbenzene	EPA 8260B	ND	---	0.200	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 04:24	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	
Isopropylbenzene	"	ND	---	0.500	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>93.8%</i>		<i>76 - 138 %</i>	"			"
	<i>Toluene-d8</i>			<i>90.3%</i>		<i>80 - 120 %</i>	"			"
	<i>4-BFB</i>			<i>90.6%</i>		<i>80 - 120 %</i>	"			"

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-05 (LMW-EB-0508)		Water			Sampled: 05/08/08 16:50					
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 02:09	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-05 (LMW-EB-0508)		Water			Sampled: 05/08/08 16:50					
Isopropylbenzene	EPA 8260B	ND	---	0.500	ug/l	1x	8E16057	05/16/08 18:00	05/17/08 02:09	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>95.4%</i>		<i>76 - 138 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>93.7%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>94.9%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Total Metals by EPA 200 Series Methods
TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0109-01 (LMW-2-0508)		Water			Sampled: 05/08/08 14:45					
Sodium	EPA 200.7	22.1	—	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 11:52	
BRE0109-02 (LMW-4-0508)		Water			Sampled: 05/08/08 15:30					
Sodium	EPA 200.7	32.7	—	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 12:10	
BRE0109-03 (LMW-6-0508)		Water			Sampled: 05/08/08 13:40					
Sodium	EPA 200.7	7.10	—	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 12:15	
BRE0109-04 (LMW-6-0508D)		Water			Sampled: 05/08/08 13:50					
Sodium	EPA 200.7	7.14	—	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 12:19	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E12014 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E12014-BLK1)													Extracted: 05/12/08 09:03	
Gx Range Hydrocarbons	NWTPH-HCI D	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	05/15/08 15:39	
Kerosene Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Insulating Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Lube Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.4%</i>	<i>Limits: 50-150%</i>										<i>05/15/08 15:39</i>
<i>Octacosane</i>			<i>115%</i>	<i>50-150%</i>										<i>"</i>
LCS (8E12014-BS1)													Extracted: 05/12/08 09:03	
Diesel Range Hydrocarbons	NWTPH-HCI D	DET	---	0.630	mg/l	1x	--	2.00	96.4%	(58-125)	--	--	05/15/08 16:06	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 50-150%</i>										<i>05/15/08 16:06</i>
<i>Octacosane</i>			<i>118%</i>	<i>50-150%</i>										<i>"</i>
LCS Dup (8E12014-BSD1)													Extracted: 05/12/08 09:03	
Diesel Range Hydrocarbons	NWTPH-HCI D	DET	---	0.630	mg/l	1x	--	2.00	94.2%	(58-125)	2.27% (40)		05/15/08 16:31	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 50-150%</i>										<i>05/15/08 16:31</i>
<i>Octacosane</i>			<i>116%</i>	<i>50-150%</i>										<i>"</i>

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: **8E12024** Water Preparation Method: **EPA 3020A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E12024-BLK1)													Extracted: 05/12/08 09:51	
Lead	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	05/13/08 08:30	
Manganese	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Vanadium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Beryllium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cobalt	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Antimony	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	

LCS (8E12024-BS1)													Extracted: 05/12/08 09:51	
Zinc	EPA 6020	0.0753	---	0.0100	mg/l	1x	--	0.0800	94.2%	(80-120)	--	--	05/13/08 08:36	
Copper	"	0.0728	---	0.00100	"	"	--	"	91.0%	"	--	--	"	
Nickel	"	0.0724	---	0.00100	"	"	--	"	90.4%	"	--	--	"	
Lead	"	0.0740	---	0.00100	"	"	--	"	92.5%	"	--	--	"	
Silver	"	0.0732	---	0.00100	"	"	--	"	91.5%	"	--	--	"	
Manganese	"	0.0766	---	0.0100	"	"	--	"	95.8%	"	--	--	"	
Vanadium	"	0.0760	---	0.00100	"	"	--	"	95.0%	"	--	--	"	
Antimony	"	0.0556	---	0.00300	"	"	--	0.0600	92.7%	"	--	--	"	
Beryllium	"	0.0740	---	0.00100	"	"	--	0.0800	92.5%	"	--	--	"	
Selenium	"	0.0720	---	0.00100	"	"	--	"	90.0%	"	--	--	"	
Cobalt	"	0.0758	---	0.00100	"	"	--	"	94.8%	"	--	--	"	
Arsenic	"	0.0720	---	0.00100	"	"	--	"	89.9%	"	--	--	"	
Chromium	"	0.0759	---	0.00100	"	"	--	"	94.9%	"	--	--	"	
Thallium	"	0.0754	---	0.00100	"	"	--	"	94.2%	"	--	--	"	
Barium	"	0.0744	---	0.0100	"	"	--	"	93.1%	"	--	--	"	
Cadmium	"	0.0738	---	0.00100	"	"	--	"	92.3%	"	--	--	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: **8E12024** Water Preparation Method: **EPA 3020A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8E12024-DUP1)			QC Source: BRE0108-08				Extracted: 05/12/08 09:51							
Copper	EPA 6020	ND	---	0.00100	mg/l	1x	0.0136	--	--	--	--	(20)	05/13/08 09:00	
Cobalt	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Nickel	"	0.00131	---	0.00100	"	"	0.00159	--	--	--	19.3%	"	"	
Arsenic	"	ND	---	0.00100	"	"	ND	--	--	--	17.1%	"	"	
Beryllium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Silver	"	ND	---	0.00100	"	"	ND	--	--	--	NR	(50)	"	
Chromium	"	ND	---	0.00100	"	"	ND	--	--	--	43.5%	(20)	"	R4
Barium	"	ND	---	0.0100	"	"	ND	--	--	--	0.673%	"	"	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Manganese	"	0.274	---	0.0100	"	"	0.265	--	--	--	3.27%	"	"	
Antimony	"	ND	---	0.00300	"	"	ND	--	--	--	"	"	"	
Lead	"	ND	---	0.00100	"	"	0.00134	--	--	--	91.3%	"	"	R3
Thallium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Zinc	"	ND	---	0.0100	"	"	0.0112	--	--	--	109%	"	"	R3
Vanadium	"	ND	---	0.00100	"	"	ND	--	--	--	5.26%	"	"	
Selenium	"	ND	---	0.00100	"	"	ND	--	--	--	1.98%	"	"	

Matrix Spike (8E12024-MS1)			QC Source: BRE0108-08				Extracted: 05/12/08 09:51							
Beryllium	EPA 6020	0.0764	---	0.00100	mg/l	1x	ND	0.0800	95.5%	(75-125)	--	--	05/13/08 08:48	
Vanadium	"	0.0803	---	0.00100	"	"	0.000740	"	99.4%	(83-120)	--	--	"	
Chromium	"	0.0786	---	0.00100	"	"	0.000420	"	97.8%	(80-120)	--	--	"	
Antimony	"	0.0599	---	0.00300	"	"	ND	0.0600	99.8%	(74-133)	--	--	"	
Barium	"	0.0836	---	0.0100	"	"	0.00592	0.0800	97.2%	(75-125)	--	--	"	
Selenium	"	0.0748	---	0.00100	"	"	0.000500	"	92.9%	(58-120)	--	--	"	
Thallium	"	0.0790	---	0.00100	"	"	ND	"	98.7%	(80-120)	--	--	"	
Cadmium	"	0.0748	---	0.00100	"	"	ND	"	93.4%	(75-125)	--	--	"	
Nickel	"	0.0744	---	0.00100	"	"	0.00159	"	91.0%	(78-120)	--	--	"	
Zinc	"	0.0788	---	0.0100	"	"	0.0112	"	84.5%	(53-125)	--	--	"	
Copper	"	0.0738	---	0.00100	"	"	0.0136	"	75.2%	(75-125)	--	--	"	
Manganese	"	0.352	---	0.0100	"	"	0.265	"	109%	(65-145)	--	--	"	
Cobalt	"	0.0772	---	0.00100	"	"	ND	"	96.5%	(71-131)	--	--	"	
Lead	"	0.0776	---	0.00100	"	"	0.00134	"	95.3%	(80-120)	--	--	"	
Silver	"	0.0749	---	0.00100	"	"	ND	"	93.6%	(19-153)	--	--	"	
Arsenic	"	0.0758	---	0.00100	"	"	0.000640	"	94.0%	(75-125)	--	--	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: **8E12024** Water Preparation Method: **EPA 3020A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (8E12024-MSD1)			QC Source: BRE0108-08			Extracted: 05/12/08 09:51								
Copper	EPA 6020	0.0723	---	0.00100	mg/l	1x	0.0136	0.0800	73.3%	(75-125)	2.11% (20)		05/13/08 08:54	M2
Nickel	"	0.0745	---	0.00100	"	"	0.00159	"	91.1%	(78-120)	0.0940%	"	"	"
Arsenic	"	0.0740	---	0.00100	"	"	0.000640	"	91.7%	(75-125)	2.43%	"	"	"
Antimony	"	0.0578	---	0.00300	"	"	ND	0.0600	96.4%	(74-133)	3.48%	"	"	"
Zinc	"	0.0777	---	0.0100	"	"	0.0112	0.0800	83.2%	(53-125)	1.29%	"	"	"
Barium	"	0.0810	---	0.0100	"	"	0.00592	"	93.9%	(75-125)	3.16%	"	"	"
Cobalt	"	0.0754	---	0.00100	"	"	ND	"	94.3%	(71-131)	2.32%	"	"	"
Cadmium	"	0.0732	---	0.00100	"	"	ND	"	91.4%	(75-125)	2.16%	"	"	"
Silver	"	0.0732	---	0.00100	"	"	ND	"	91.5%	(19-153)	2.27% (30)	"	"	"
Thallium	"	0.0776	---	0.00100	"	"	ND	"	97.0%	(80-120)	1.78% (20)	"	"	"
Chromium	"	0.0766	---	0.00100	"	"	0.000420	"	95.2%	"	2.67%	"	"	"
Vanadium	"	0.0784	---	0.00100	"	"	0.000740	"	97.1%	(83-120)	2.33%	"	"	"
Selenium	"	0.0726	---	0.00100	"	"	0.000500	"	90.2%	(58-120)	2.96%	"	"	"
Lead	"	0.0765	---	0.00100	"	"	0.00134	"	93.9%	(80-120)	1.48%	"	"	"
Manganese	"	0.340	---	0.0100	"	"	0.265	"	94.4%	(65-145)	3.47%	"	"	"
Beryllium	"	0.0746	---	0.00100	"	"	ND	"	93.2%	(75-125)	2.42%	"	"	"

Post Spike (8E12024-PS1)			QC Source: BRE0108-08			Extracted: 05/12/08 09:51								
Beryllium	EPA 6020	0.102	---		ug/ml	1x	-0.0000400	0.0995	102%	(75-125)	--	--	05/13/08 08:42	
Silver	"	0.0984	---		"	"	0.0000200	0.100	98.4%	"	--	--	"	
Zinc	"	0.104	---		"	"	0.0112	"	92.5%	"	--	--	"	
Cadmium	"	0.103	---		"	"	-0.0000200	"	103%	"	--	--	"	
Vanadium	"	0.108	---		"	"	0.000740	"	107%	"	--	--	"	
Selenium	"	0.0996	---		"	"	0.000500	"	99.1%	"	--	--	"	
Copper	"	0.101	---		"	"	0.0136	"	86.6%	"	--	--	"	
Cobalt	"	0.104	---		"	"	0.000160	"	104%	"	--	--	"	
Nickel	"	0.101	---		"	"	0.00159	0.0995	100%	"	--	--	"	
Arsenic	"	0.105	---		"	"	0.000640	"	105%	"	--	--	"	
Thallium	"	0.107	---		"	"	-0.0000100	0.100	106%	"	--	--	"	
Barium	"	0.110	---		"	"	0.00592	"	104%	"	--	--	"	
Antimony	"	0.0510	---		"	"	-0.0000200	0.0510	100%	"	--	--	"	
Chromium	"	0.107	---		"	"	0.000420	0.100	106%	"	--	--	"	
Lead	"	0.103	---		"	"	0.00134	"	101%	"	--	--	"	

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E12024 Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (8E12024-PS2)		QC Source: BRE0108-08 Extracted: 05/12/08 09:51												
Manganese	EPA 6020	0.373	---		ug/ml	2x	0.265	0.100	108%	(75-125)	--	--	05/13/08 10:12	

QC Batch: 8E12043 Water Preparation Method: EPA 3010A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E12043-BLK1)		Extracted: 05/12/08 14:12												
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	--	--	--	--	--	--	05/13/08 11:33	
Magnesium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Potassium	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Iron	"	ND	---	0.150	"	"	--	--	--	--	--	--	"	
Calcium	"	ND	---	0.750	"	"	--	--	--	--	--	--	"	

LCS (8E12043-BS1) **Extracted: 05/12/08 14:12**

Potassium	EPA 6010B	9.22	---	3.00	mg/l	1x	--	10.0	92.2%	(80-120)	--	--	05/13/08 11:36	
Calcium	"	4.88	---	0.750	"	"	--	5.00	97.6%	"	--	--	"	
Aluminum	"	5.09	---	0.200	"	"	--	"	102%	"	--	--	"	
Iron	"	5.27	---	0.150	"	"	--	"	105%	"	--	--	"	
Magnesium	"	4.85	---	0.500	"	"	--	"	97.0%	"	--	--	"	

Duplicate (8E12043-DUP1) **QC Source: BRE0088-01 Extracted: 05/12/08 14:12**

Calcium	EPA 6010B	35.4	---	0.750	mg/l	1x	35.0	--	--	--	1.19%	(25)	05/13/08 11:43	
Magnesium	"	14.8	---	0.500	"	"	14.6	--	--	--	0.816%	(30)	"	
Aluminum	"	ND	---	0.200	"	"	ND	--	--	--	NR	(25)	"	
Iron	"	ND	---	0.150	"	"	ND	--	--	--		(30)	"	
Potassium	"	ND	---	3.00	"	"	ND	--	--	--	0.460%	"	"	

Matrix Spike (8E12043-MS1) **QC Source: BRE0088-01 Extracted: 05/12/08 14:12**

Calcium	EPA 6010B	41.4	---	0.750	mg/l	1x	35.0	5.00	127%	(70-137)	--	--	05/13/08 11:40	
Magnesium	"	20.5	---	0.500	"	"	14.6	"	117%	(76-129)	--	--	"	
Potassium	"	11.5	---	3.00	"	"	1.53	10.0	99.3%	(75-127)	--	--	"	
Iron	"	5.40	---	0.150	"	"	ND	5.00	108%	(78-130)	--	--	"	
Aluminum	"	5.26	---	0.200	"	"	ND	"	105%	(74-142)	--	--	"	

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E12043 Water Preparation Method: EPA 3010A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Post Spike (8E12043-PS1)			QC Source: BRE0088-01				Extracted: 05/12/08 14:12								
Aluminum	EPA 6010B	5.36	---		ug/ml	1x	0.00450	5.00	107%	(75-125)	--	--	05/13/08 11:47		
Potassium	"	11.5	---		"	"	1.53	10.0	99.4%	"	--	--	"		
Iron	"	5.58	---		"	"	0.0473	5.00	111%	"	--	--	"		
Calcium	"	40.0	---		"	"	35.0	"	99.2%	"	--	--	"		
Magnesium	"	20.0	---		"	"	14.6	"	106%	"	--	--	"		

QC Batch: 8E14050 Water Preparation Method: EPA 7470A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (8E14050-BLK1)							Extracted: 05/14/08 19:23								
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	05/15/08 12:51		
LCS (8E14050-BS1)							Extracted: 05/14/08 19:23								
Mercury	EPA 7470A	0.00523	---	0.000200	mg/l	1x	--	0.00500	105%	(80-120)	--	--	05/15/08 12:53		
LCS Dup (8E14050-BSD1)							Extracted: 05/14/08 19:23								
Mercury	EPA 7470A	0.00523	---	0.000200	mg/l	1x	--	0.00500	105%	(80-120)	0.0466% (20)	--	05/15/08 12:56		
Matrix Spike (8E14050-MS1)			QC Source: BRE0151-01				Extracted: 05/14/08 19:23								
Mercury	EPA 7470A	0.00447	---	0.000200	mg/l	1x	ND	0.00500	89.4%	(75-125)	--	--	05/15/08 12:58		
Matrix Spike Dup (8E14050-MSD1)			QC Source: BRE0151-01				Extracted: 05/14/08 19:23								
Mercury	EPA 7470A	0.00456	---	0.000200	mg/l	1x	ND	0.00500	91.2%	(75-125)	2.03% (20)	--	05/15/08 13:01		

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E16057 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E16057-BLK1)										Extracted: 05/16/08 18:00				
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	05/17/08 01:43	
Benzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager

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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E16057 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes																																								
Blank (8E16057-BLK1)										Extracted: 05/16/08 18:00																																												
Hexachlorobutadiene	EPA 8260B	ND	---	2.50	ug/l	1x	--	--	--	--	--	--	05/17/08 01:43																																									
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"																																									
n-Hexane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"																																									
2-Hexanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"																																									
Isopropylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
p-Isopropyltoluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"																																									
Methylene chloride	"	ND	---	2.00	"	"	--	--	--	--	--	--	"																																									
Naphthalene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"																																									
n-Propylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
Styrene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"																																									
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"																																									
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
Toluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"																																									
o-Xylene	"	ND	---	0.250	"	"	--	--	--	--	--	--	"																																									
m,p-Xylene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"																																									
Total Xylenes	"	ND	---	0.750	"	"	--	--	--	--	--	--	"																																									
<table border="0"> <tr> <td>Surrogate(s):</td> <td>1,2-DCA-d4</td> <td>Recovery:</td> <td>94.8%</td> <td>Limits:</td> <td>76-138%</td> <td>"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>05/17/08 01:43</td> </tr> <tr> <td></td> <td>Toluene-d8</td> <td></td> <td>95.1%</td> <td></td> <td>80-120%</td> <td>"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>"</td> </tr> <tr> <td></td> <td>4-BFB</td> <td></td> <td>94.2%</td> <td></td> <td>80-120%</td> <td>"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>"</td> </tr> </table>													Surrogate(s):	1,2-DCA-d4	Recovery:	94.8%	Limits:	76-138%	"							05/17/08 01:43		Toluene-d8		95.1%		80-120%	"							"		4-BFB		94.2%		80-120%	"							"
Surrogate(s):	1,2-DCA-d4	Recovery:	94.8%	Limits:	76-138%	"							05/17/08 01:43																																									
	Toluene-d8		95.1%		80-120%	"							"																																									
	4-BFB		94.2%		80-120%	"							"																																									

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E16057 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (8E16057-BS1)													Extracted: 05/16/08 18:00	
Benzene	EPA 8260B	33.0	---	0.200	ug/l	1x	--	40.0	82.6%	(80-120)	--	--	05/16/08 23:21	
Chlorobenzene	"	35.4	---	0.200	"	"	--	"	88.4%	"	--	--	"	
1,1-Dichloroethene	"	37.0	---	0.200	"	"	--	"	92.4%	"	--	--	"	
Methyl tert-butyl ether	"	35.0	---	1.00	"	"	--	"	87.6%	"	--	--	"	
Toluene	"	33.2	---	0.200	"	"	--	"	82.9%	(75-125)	--	--	"	
Trichloroethene	"	34.4	---	0.200	"	"	--	"	85.9%	(80-120)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 92.9%</i>		<i>Limits: 76-138%</i>	"								05/16/08 23:21	
<i>Toluene-d8</i>		<i>91.4%</i>		<i>80-120%</i>	"								"	
<i>4-BFB</i>		<i>100%</i>		<i>80-120%</i>	"								"	

LCS Dup (8E16057-BSD1)													Extracted: 05/16/08 18:00	
Benzene	EPA 8260B	34.0	---	0.200	ug/l	1x	--	40.0	85.1%	(80-120)	3.04%	(20)	05/16/08 23:48	
Chlorobenzene	"	36.2	---	0.200	"	"	--	"	90.6%	"	2.37%	"	"	
1,1-Dichloroethene	"	36.4	---	0.200	"	"	--	"	90.9%	"	1.64%	"	"	
Methyl tert-butyl ether	"	35.5	---	1.00	"	"	--	"	88.8%	"	1.33%	"	"	
Toluene	"	34.2	---	0.200	"	"	--	"	85.4%	(75-125)	3.00%	"	"	
Trichloroethene	"	34.8	---	0.200	"	"	--	"	86.9%	(80-120)	1.13%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 99.2%</i>		<i>Limits: 76-138%</i>	"								05/16/08 23:48	
<i>Toluene-d8</i>		<i>94.3%</i>		<i>80-120%</i>	"								"	
<i>4-BFB</i>		<i>97.6%</i>		<i>80-120%</i>	"								"	

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:43
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Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica Spokane

QC Batch: 8050074 Water Preparation Method: Metals

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8050074-BLK1)												Extracted: 05/14/08 10:46		
Sodium	EPA 200.7	ND	---	0.500	mg/l	1x	--	--	--	--	--	--	05/14/08 11:24	
LCS (8050074-BS1)												Extracted: 05/14/08 10:46		
Sodium	EPA 200.7	9.72	---	0.500	mg/l	1x	--	10.0	97.2%	(85-115)	--	--	05/14/08 11:21	
Duplicate (8050074-DUP1)												QC Source: SRE0052-03 Extracted: 05/14/08 10:46		
Sodium	EPA 200.7	41.2	---	0.500	mg/l	1x	40.8	--	--	--	0.901% (20)	--	05/14/08 12:38	
Matrix Spike (8050074-MS1)												QC Source: SRE0052-03 Extracted: 05/14/08 10:46		
Sodium	EPA 200.7	51.1	---	0.500	mg/l	1x	40.8	10.0	102%	(75-125)	--	--	05/14/08 12:44	
Matrix Spike Dup (8050074-MSD1)												QC Source: SRE0052-03 Extracted: 05/14/08 10:46		
Sodium	EPA 200.7	51.0	--	0.500	mg/l	1x	40.8	10.0	101%	(75-125)	0.184% (20)	--	05/14/08 12:50	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc.

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

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

Report Created:
05/20/08 15:43

Notes and Definitions

Report Specific Notes:

- M2 - The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

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.

TestAmerica Seattle



Curtis D. Armstrong For Blake T. Meinert, Project Manager

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May 20, 2008

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 05/07/08 14:55.
The following list is a summary of the Work Orders contained in this report, generated on 05/20/08 15:22.

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

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRE0088	Landsburg Mine	923-1000-002-R273

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc.

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

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

Report Created:
05/20/08 15:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-3-0508	BRE0088-01	Water	05/07/08 09:15	05/07/08 14:55
LMW-5-0508	BRE0088-02	Water	05/07/08 10:20	05/07/08 14:55
LMW-7-0508	BRE0088-03	Water	05/07/08 13:30	05/07/08 14:55
LMW-8-0508	BRE0088-04	Water	05/07/08 10:55	05/07/08 14:55
LMW-EB-0508	BRE0088-05	Water	05/07/08 07:30	05/07/08 14:55
Trip Blank	BRE0088-06	Water	05/07/08 07:30	05/07/08 14:55

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
--	---	-----------------------------------

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-01 (LMW-3-0508)		Water			Sampled: 05/07/08 09:15					
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E08020	05/08/08 08:33	05/12/08 12:40	
Kerosene Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				82.6%		50 - 150 %	"			"
<i>Octacosane</i>				114%		50 - 150 %	"			"
BRE0088-02 (LMW-5-0508)		Water			Sampled: 05/07/08 10:20					
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E08020	05/08/08 08:33	05/12/08 13:09	
Kerosene Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				81.6%		50 - 150 %	"			"
<i>Octacosane</i>				115%		50 - 150 %	"			"
BRE0088-03 (LMW-7-0508)		Water			Sampled: 05/07/08 13:30					
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E08020	05/08/08 08:33	05/12/08 13:38	
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	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				79.8%		50 - 150 %	"			"
<i>Octacosane</i>				113%		50 - 150 %	"			"
BRE0088-04 (LMW-8-0508)		Water			Sampled: 05/07/08 10:55					
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E08020	05/08/08 08:33	05/12/08 14:08	
Kerosene Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	---	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				74.0%		50 - 150 %	"			"
<i>Octacosane</i>				118%		50 - 150 %	"			"

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name:	Landsburg Mine	Report Created: 05/20/08 15:22
	Project Number:	923-1000-002-R273	
	Project Manager:	Douglas Morell	

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-05 (LMW-EB-0508)		Water		Sampled: 05/07/08 07:30						
Gx Range Hydrocarbons	NWTPH-HCID	ND	---	0.236	mg/l	1x	8E08020	05/08/08 08:33	05/12/08 14:38	
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	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			73.8%		50 - 150 %	"				"
<i>Octacosane</i>			115%		50 - 150 %	"				"

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-01 (LMW-3-0508)	Water				Sampled: 05/07/08 09:15					
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 11:50	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E07029	05/08/08 06:00	05/09/08 18:26	
Arsenic	"	ND	---	0.00100	"	"	"	"	05/08/08 12:22	
Barium	"	0.0739	---	0.0100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	35.0	---	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 11:50	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 12:22	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	ND	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 11:50	
Lead	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 12:22	
Magnesium	EPA 6010B	14.6	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 11:50	
Manganese	EPA 6020	0.0464	---	0.0100	"	"	8E07029	05/08/08 06:00	05/08/08 12:22	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:03	
Nickel	EPA 6020	0.00102	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 12:22	
Potassium	EPA 6010B	ND	---	3.00	"	"	8E12043	05/12/08 14:12	05/13/08 11:50	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 12:22	
Silver	"	ND	---	0.00100	"	"	"	"	"	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Vanadium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	
BRE0088-02 (LMW-5-0508)	Water				Sampled: 05/07/08 10:20					
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 11:54	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E07029	05/08/08 06:00	05/09/08 18:32	
Arsenic	"	ND	---	0.00100	"	"	"	"	05/08/08 13:04	
Barium	"	0.279	---	0.0100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	103	---	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 11:54	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:04	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	0.204	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 11:54	
Lead	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:04	
Magnesium	EPA 6010B	60.1	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 11:54	
Manganese	EPA 6020	0.244	---	0.0100	"	"	8E07029	05/08/08 06:00	05/08/08 13:04	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:05	
Nickel	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:04	
Potassium	EPA 6010B	ND	---	3.00	"	"	8E12043	05/12/08 14:12	05/13/08 11:54	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:04	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BRE0088-02 (LMW-5-0508)		Water			Sampled: 05/07/08 10:20					
Silver	EPA 6020	ND	---	0.00100	mg/l	1x	8E07029	05/08/08 06:00	05/08/08 13:04	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Vanadium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	

BRE0088-03 (LMW-7-0508)		Water			Sampled: 05/07/08 13:30					
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 11:57	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E07029	05/08/08 06:00	05/09/08 18:38	
Arsenic	"	0.00266	---	0.00100	"	"	"	"	05/08/08 13:10	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	55.5	---	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 11:57	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:10	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	1.22	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 11:57	
Lead	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:10	
Magnesium	EPA 6010B	26.0	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 11:57	
Manganese	EPA 6020	0.134	---	0.0100	"	"	8E07029	05/08/08 06:00	05/08/08 13:10	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:08	
Nickel	EPA 6020	0.00100	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:10	
Potassium	EPA 6010B	3.00	---	3.00	"	"	8E12043	05/12/08 14:12	05/13/08 11:57	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:10	
Silver	"	ND	---	0.00100	"	"	"	"	"	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Vanadium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	

BRE0088-03RE1 (LMW-7-0508)		Water			Sampled: 05/07/08 13:30					
Barium	EPA 6020	0.465	---	0.0500	mg/l	5x	8E07029	05/08/08 06:00	05/09/08 09:01	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-04 (LMW-8-0508)		Water			Sampled: 05/07/08 10:55					
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 12:01	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E07029	05/08/08 06:00	05/09/08 18:44	
Arsenic	"	0.00170	---	0.00100	"	"	"	"	05/08/08 13:16	
Barium	"	0.0416	---	0.0100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	61.2	---	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 12:01	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:16	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	10.4	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 12:01	
Lead	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:16	
Magnesium	EPA 6010B	34.3	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 12:01	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:10	
Nickel	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:16	
Potassium	EPA 6010B	ND	---	3.00	"	"	8E12043	05/12/08 14:12	05/13/08 12:01	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 13:16	
Silver	"	ND	---	0.00100	"	"	"	"	"	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Vanadium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	
BRE0088-04RE1 (LMW-8-0508)		Water			Sampled: 05/07/08 10:55					
Manganese	EPA 6020	0.473	---	0.0200	mg/l	2x	8E07029	05/08/08 06:00	05/09/08 09:07	
BRE0088-05 (LMW-EB-0508)		Water			Sampled: 05/07/08 07:30					
Aluminum	EPA 6010B	ND	---	0.200	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 12:14	
Antimony	EPA 6020	ND	---	0.00300	"	"	8E07029	05/08/08 06:00	05/09/08 18:50	
Arsenic	"	ND	---	0.00100	"	"	"	"	05/08/08 12:16	
Barium	"	ND	---	0.0100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	ND	---	0.750	"	"	8E12043	05/12/08 14:12	05/13/08 12:14	
Chromium	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 12:16	
Cobalt	"	ND	---	0.00100	"	"	"	"	"	
Copper	"	ND	---	0.00100	"	"	"	"	"	
Iron	EPA 6010B	ND	---	0.150	"	"	8E12043	05/12/08 14:12	05/13/08 12:14	
Lead	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 12:16	
Magnesium	EPA 6010B	ND	---	0.500	"	"	8E12043	05/12/08 14:12	05/13/08 12:14	
Manganese	EPA 6020	ND	---	0.0100	"	"	8E07029	05/08/08 06:00	05/08/08 12:16	
Mercury	EPA 7470A	ND	---	0.000200	"	"	8E14050	05/14/08 19:23	05/15/08 13:13	
Nickel	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 12:16	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-05 (LMW-EB-0508)		Water			Sampled: 05/07/08 07:30					
Potassium	EPA 6010B	ND	---	3.00	mg/l	1x	8E12043	05/12/08 14:12	05/13/08 12:14	
Selenium	EPA 6020	ND	---	0.00100	"	"	8E07029	05/08/08 06:00	05/08/08 12:16	
Silver	"	ND	---	0.00100	"	"	"	"	"	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Vanadium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-01 (LMW-3-0508)		Water			Sampled: 05/07/08 09:15					
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 17:23	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-01 (LMW-3-0508)		Water				Sampled: 05/07/08 09:15				
Isopropylbenzene	EPA 8260B	ND	---	0.500	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 17:23	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		97.6%		76 - 138 %	"				"
	Toluene-d8		99.4%		80 - 120 %	"				"
	4-BFB		96.6%		80 - 120 %	"				"

BRE0088-02 (LMW-5-0508)		Water				Sampled: 05/07/08 10:20				
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 17:50	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-02 (LMW-5-0508)										
		Water								
										Sampled: 05/07/08 10:20
Chlorobenzene	EPA 8260B	ND	---	0.200	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 17:50	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	
Isopropylbenzene	"	ND	---	0.500	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-02 (LMW-5-0508)		Water			Sampled: 05/07/08 10:20					
1,1,1-Trichloroethane	EPA 8260B	ND	---	0.200	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 17:50	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>98.4%</i>		<i>76 - 138 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>97.2%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>99.1%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>

BRE0088-03 (LMW-7-0508)		Water			Sampled: 05/07/08 13:30					
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 18:17	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-03 (LMW-7-0508)		Water			Sampled: 05/07/08 13:30					
Dichlorodifluoromethane	EPA 8260B	ND	---	0.500	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 18:17	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	
Isopropylbenzene	"	ND	---	0.500	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			99.5%		76 - 138 %	"				"

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-03 (LMW-7-0508)		Water			Sampled: 05/07/08 13:30					
Toluene-d8		97.5%		80 - 120 %		1x			05/14/08 18:17	
4-BFB		95.4%		80 - 120 %		"			"	
BRE0088-04 (LMW-8-0508)		Water			Sampled: 05/07/08 10:55					
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 18:44	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-04 (LMW-8-0508)		Water			Sampled: 05/07/08 10:55					
Ethylbenzene	EPA 8260B	ND	---	0.200	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 18:44	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	
Isopropylbenzene	"	ND	---	0.500	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>97.1%</i>		<i>76 - 138 %</i>	<i>"</i>			<i>"</i>
	<i>Toluene-d8</i>			<i>97.1%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>
	<i>4-BFB</i>			<i>96.4%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-05 (LMW-EB-0508)		Water			Sampled: 05/07/08 07:30					
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 19:10	
Benzene	"	ND	---	0.200	"	"	"	"	"	
Bromobenzene	"	ND	---	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	---	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	---	0.200	"	"	"	"	"	
Bromoform	"	ND	---	0.250	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	---	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	1.04	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-05 (LMW-EB-0508)		Water			Sampled: 05/07/08 07:30					
Isopropylbenzene	EPA 8260B	ND	---	0.500	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 19:10	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	0.320	---	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		99.2%		76 - 138 %	"				"
	Toluene-d8		96.6%		80 - 120 %	"				"
	4-BFB		93.2%		80 - 120 %	"				"

BRE0088-06 (Trip Blank)		Water			Sampled: 05/07/08 07:30					
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 16:29	
Benzene	"	ND	----	0.200	"	"	"	"	"	
Bromobenzene	"	ND	----	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	----	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
2-Butanone	"	ND	----	2.00	"	"	"	"	"	
n-Butylbenzene	"	ND	----	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	----	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-06 (Trip Blank)										
Water										
Sampled: 05/07/08 07:30										
Chlorobenzene	EPA 8260B	ND	---	0.200	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 16:29	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	0.200	"	"	"	"	"	
Chloromethane	"	ND	---	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	"	"	"	
Dibromomethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
n-Hexane	"	ND	---	1.00	"	"	"	"	"	
2-Hexanone	"	ND	---	2.00	"	"	"	"	"	
Isopropylbenzene	"	ND	---	0.500	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	2.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	---	0.500	"	"	"	"	"	
Styrene	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	---	0.200	"	"	"	"	"	
Toluene	"	ND	---	0.200	"	"	"	"	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-06 (Trip Blank)		Water			Sampled: 05/07/08 07:30					
1,1,1-Trichloroethane	EPA 8260B	ND	---	0.200	ug/l	1x	8E14008	05/14/08 13:10	05/14/08 16:29	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	"	"	"	
Trichloroethene	"	ND	---	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	---	0.200	"	"	"	"	"	
o-Xylene	"	ND	---	0.250	"	"	"	"	"	
m,p-Xylene	"	ND	---	0.500	"	"	"	"	"	
Total Xylenes	"	ND	---	0.750	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>95.8%</i>		<i>76 - 138 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>101%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>99.6%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Blake T. Meinert, Project Manager

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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Total Metals by EPA 200 Series Methods
TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0088-01 (LMW-3-0508)		Water			Sampled: 05/07/08 09:15					
Sodium	EPA 200.7	9.10	---	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 11:28	
BRE0088-02 (LMW-5-0508)		Water			Sampled: 05/07/08 10:20					
Sodium	EPA 200.7	17.9	---	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 11:32	
BRE0088-03 (LMW-7-0508)		Water			Sampled: 05/07/08 13:30					
Sodium	EPA 200.7	40.8	---	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 11:38	
BRE0088-04 (LMW-8-0508)		Water			Sampled: 05/07/08 10:55					
Sodium	EPA 200.7	11.0	---	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 11:43	
BRE0088-05 (LMW-EB-0508)		Water			Sampled: 05/07/08 07:30					
Sodium	EPA 200.7	ND	---	0.500	mg/l	1x	8050074	05/14/08 10:46	05/14/08 11:48	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E08020 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E08020-BLK1)										Extracted: 05/08/08 08:33				
Gx Range Hydrocarbons	NWTPH-HCI D	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	05/12/08 11:11	
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: 93.4%		Limits: 50-150%		"						05/12/08 11:11		
Octacosane		118%		50-150%		"						"		
LCS (8E08020-BS1)										Extracted: 05/08/08 08:33				
Diesel Range Hydrocarbons	NWTPH-HCI D	DET	---	0.630	mg/l	1x	--	2.00	96.8%	(58-125)	--	--	05/12/08 11:40	
Surrogate(s): 2-FBP		Recovery: 89.6%		Limits: 50-150%		"						05/12/08 11:40		
Octacosane		112%		50-150%		"						"		
LCS Dup (8E08020-BSD1)										Extracted: 05/08/08 08:33				
Diesel Range Hydrocarbons	NWTPH-HCI D	DET	---	0.630	mg/l	1x	--	2.00	95.7%	(58-125)	1.20%	(40)	05/12/08 12:10	
Surrogate(s): 2-FBP		Recovery: 86.8%		Limits: 50-150%		"						05/12/08 12:10		
Octacosane		110%		50-150%		"						"		

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E07029 Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E07029-BLK1)													Extracted: 05/08/08 06:00	
Beryllium	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	05/08/08 11:52	
Barium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cobalt	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Manganese	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Antimony	"	ND	---	0.00300	"	"	--	--	--	--	--	--	05/09/08 17:44	
Selenium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	05/08/08 11:52	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Vanadium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	

LCS (8E07029-BS1)													Extracted: 05/08/08 06:00	
Selenium	EPA 6020	0.0740	---	0.00100	mg/l	1x	--	0.0800	92.4%	(80-120)	--	--	05/08/08 11:46	
Arsenic	"	0.0738	---	0.00100	"	"	--	"	92.2%	"	--	--	"	
Cadmium	"	0.0749	---	0.00100	"	"	--	"	93.6%	"	--	--	"	
Vanadium	"	0.0757	---	0.00100	"	"	--	"	94.6%	"	--	--	"	
Thallium	"	0.0744	---	0.00100	"	"	--	"	93.0%	"	--	--	"	
Manganese	"	0.0764	---	0.0100	"	"	--	"	95.5%	"	--	--	"	
Silver	"	0.0748	---	0.00100	"	"	--	"	93.5%	"	--	--	"	
Nickel	"	0.0742	---	0.00100	"	"	--	"	92.7%	"	--	--	"	
Zinc	"	0.0775	---	0.0100	"	"	--	"	96.9%	"	--	--	"	
Antimony	"	0.0538	---	0.00300	"	"	--	0.0600	89.8%	"	--	--	05/09/08 17:50	
Cobalt	"	0.0758	---	0.00100	"	"	--	0.0800	94.7%	"	--	--	05/08/08 11:46	
Lead	"	0.0766	---	0.00100	"	"	--	"	95.8%	"	--	--	"	
Barium	"	0.0766	---	0.0100	"	"	--	"	95.7%	"	--	--	"	
Copper	"	0.0749	---	0.00100	"	"	--	"	93.6%	"	--	--	"	
Beryllium	"	0.0724	---	0.00100	"	"	--	"	90.5%	"	--	--	"	
Chromium	"	0.0743	---	0.00100	"	"	--	"	92.9%	"	--	--	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E07029 Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8E07029-DUP1)			QC Source: BRE0088-05				Extracted: 05/08/08 06:00							
Barium	EPA 6020	ND	---	0.0100	mg/l	1x	ND	--	--	--	NR	(20)	05/08/08 12:10	
Arsenic	"	ND	---	0.00100	"	"	ND	--	--	--	"	"	"	
Zinc	"	ND	---	0.0100	"	"	ND	--	--	--	NR	"	"	
Thallium	"	ND	---	0.00100	"	"	ND	--	--	--	6.45%	"	"	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	26.7%	"	"	R4
Manganese	"	ND	---	0.0100	"	"	ND	--	--	--	"	"	"	
Copper	"	ND	---	0.00100	"	"	ND	--	--	--	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Cobalt	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Silver	"	ND	---	0.00100	"	"	ND	--	--	--	NR (50)	"	"	
Vanadium	"	ND	---	0.00100	"	"	ND	--	--	--	NR (20)	"	"	
Chromium	"	ND	---	0.00100	"	"	ND	--	--	--	2.90%	"	"	
Selenium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Nickel	"	ND	---	0.00100	"	"	ND	--	--	--	46.2%	"	"	R4

Matrix Spike (8E07029-MS1)			QC Source: BRE0088-05				Extracted: 05/08/08 06:00							
Beryllium	EPA 6020	0.0750	---	0.00100	mg/l	1x	ND	0.0800	93.8%	(75-125)	--	--	05/08/08 12:04	
Copper	"	0.0779	---	0.00100	"	"	ND	"	97.3%	"	--	--	"	
Zinc	"	0.128	---	0.0100	"	"	ND	"	160%	(53-125)	--	--	"	M1
Barium	"	0.0779	---	0.0100	"	"	ND	"	97.4%	(75-125)	--	--	"	
Silver	"	0.0765	---	0.00100	"	"	ND	"	95.6%	(19-153)	--	--	"	
Manganese	"	0.0789	---	0.0100	"	"	ND	"	98.6%	(65-145)	--	--	"	
Arsenic	"	0.0747	---	0.00100	"	"	ND	"	93.4%	(75-125)	--	--	"	
Nickel	"	0.0770	---	0.00100	"	"	0.000100	"	96.2%	(78-120)	--	--	"	
Antimony	"	0.0578	---	0.00300	"	"	ND	0.0600	96.4%	(74-133)	--	--	05/09/08 18:14	
Selenium	"	0.0756	---	0.00100	"	"	ND	0.0800	94.6%	(58-120)	--	--	05/08/08 12:04	
Cadmium	"	0.0767	---	0.00100	"	"	ND	"	95.9%	(75-125)	--	--	"	
Thallium	"	0.0769	---	0.00100	"	"	0.000150	"	95.9%	(80-120)	--	--	"	
Cobalt	"	0.0778	---	0.00100	"	"	ND	"	97.2%	(71-131)	--	--	"	
Chromium	"	0.0774	---	0.00100	"	"	0.000350	"	96.2%	(80-120)	--	--	"	
Vanadium	"	0.0783	---	0.00100	"	"	ND	"	97.8%	(83-120)	--	--	"	
Lead	"	0.0789	---	0.00100	"	"	0.000260	"	98.3%	(80-120)	--	--	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E07029 Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Post Spike (8E07029-PS1)			QC Source: BRE0088-05				Extracted: 05/08/08 06:00								
Lead	EPA 6020	0.102	---		ug/ml	1x	0.000260	0.100	101%	(75-125)	--	--	05/08/08 11:58		
Selenium	"	0.0969	---		"	"	-0.0000700	"	97.0%	"	--	--	"		
Chromium	"	0.101	---		"	"	0.000350	"	99.8%	"	--	--	"		
Nickel	"	0.100	---		"	"	0.000100	0.0995	101%	"	--	--	"		
Manganese	"	0.103	---		"	"	0.000410	0.100	102%	"	--	--	"		
Copper	"	0.103	---		"	"	0.000120	"	102%	"	--	--	"		
Arsenic	"	0.0989	---		"	"	0.0000500	0.0995	99.3%	"	--	--	"		
Zinc	"	0.101	---		"	"	0.00132	0.100	99.6%	"	--	--	"		
Thallium	"	0.0999	---		"	"	0.000150	"	99.3%	"	--	--	"		
Silver	"	0.0989	---		"	"	-0.000130	"	99.1%	"	--	--	"		
Cobalt	"	0.101	---		"	"	0.000130	"	101%	"	--	--	"		
Barium	"	0.102	---		"	"	0.000120	"	102%	"	--	--	"		
Beryllium	"	0.0948	---		"	"	0.0000200	0.0995	95.2%	"	--	--	"		
Cadmium	"	0.0990	---		"	"	-0.0000500	0.100	99.1%	"	--	--	"		
Antimony	"	0.0488	---		"	"	-0.000100	0.0510	95.8%	"	--	--	05/09/08 18:08		
Vanadium	"	0.101	---		"	"	0.0000500	0.100	101%	"	--	--	05/08/08 11:58		

QC Batch: 8E12043 Water Preparation Method: EPA 3010A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (8E12043-BLK1)							Extracted: 05/12/08 14:12								
Calcium	EPA 6010B	ND	---	0.750	mg/l	1x	--	--	--	--	--	--	05/13/08 11:33		
Aluminum	"	ND	---	0.200	"	"	--	--	--	--	--	--	"		
Potassium	"	ND	---	3.00	"	"	--	--	--	--	--	--	"		
Iron	"	ND	---	0.150	"	"	--	--	--	--	--	--	"		
Magnesium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"		
LCS (8E12043-BS1)							Extracted: 05/12/08 14:12								
Iron	EPA 6010B	5.27	---	0.150	mg/l	1x	--	5.00	105%	(80-120)	--	--	05/13/08 11:36		
Magnesium	"	4.85	---	0.500	"	"	--	"	97.0%	"	--	--	"		
Aluminum	"	5.09	---	0.200	"	"	--	"	102%	"	--	--	"		
Potassium	"	9.22	---	3.00	"	"	--	10.0	92.2%	"	--	--	"		
Calcium	"	4.88	---	0.750	"	"	--	5.00	97.6%	"	--	--	"		

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E12043 Water Preparation Method: EPA 3010A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8E12043-DUP1)			QC Source: BRE0088-01				Extracted: 05/12/08 14:12							
Iron	EPA 6010B	ND	---	0.150	mg/l	1x	ND	--	--	--		(30)	05/13/08 11:43	
Potassium	"	ND	---	3.00	"	"	ND	--	--	--	0.460%	"	"	
Aluminum	"	ND	---	0.200	"	"	ND	--	--	--	NR	(25)	"	
Magnesium	"	14.8	---	0.500	"	"	14.6	--	--	--	0.816%	(30)	"	
Calcium	"	35.4	---	0.750	"	"	35.0	--	--	--	1.19%	(25)	"	
Matrix Spike (8E12043-MS1)			QC Source: BRE0088-01				Extracted: 05/12/08 14:12							
Calcium	EPA 6010B	41.4	---	0.750	mg/l	1x	35.0	5.00	127%	(70-137)	--	--	05/13/08 11:40	
Aluminum	"	5.26	---	0.200	"	"	ND	"	105%	(74-142)	--	--	"	
Iron	"	5.40	---	0.150	"	"	ND	"	108%	(78-130)	--	--	"	
Potassium	"	11.5	---	3.00	"	"	1.53	10.0	99.3%	(75-127)	--	--	"	
Magnesium	"	20.5	---	0.500	"	"	14.6	5.00	117%	(76-129)	--	--	"	
Post Spike (8E12043-PS1)			QC Source: BRE0088-01				Extracted: 05/12/08 14:12							
Iron	EPA 6010B	5.58	---		ug/ml	1x	0.0473	5.00	111%	(75-125)	--	--	05/13/08 11:47	
Calcium	"	40.0	---		"	"	35.0	"	99.2%	"	--	--	"	
Magnesium	"	20.0	---		"	"	14.6	"	106%	"	--	--	"	
Aluminum	"	5.36	---		"	"	0.00450	"	107%	"	--	--	"	
Potassium	"	11.5	---		"	"	1.53	10.0	99.4%	"	--	--	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E14050 Water Preparation Method: EPA 7470A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E14050-BLK1)										Extracted: 05/14/08 19:23				
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	05/15/08 12:51	
LCS (8E14050-BS1)										Extracted: 05/14/08 19:23				
Mercury	EPA 7470A	0.00523	---	0.000200	mg/l	1x	--	0.00500	105%	(80-120)	--	--	05/15/08 12:53	
LCS Dup (8E14050-BSD1)										Extracted: 05/14/08 19:23				
Mercury	EPA 7470A	0.00523	---	0.000200	mg/l	1x	--	0.00500	105%	(80-120)	0.0466% (20)	--	05/15/08 12:56	
Matrix Spike (8E14050-MS1)										QC Source: BRE0151-01 Extracted: 05/14/08 19:23				
Mercury	EPA 7470A	0.00447	---	0.000200	mg/l	1x	ND	0.00500	89.4%	(75-125)	--	--	05/15/08 12:58	
Matrix Spike Dup (8E14050-MSD1)										QC Source: BRE0151-01 Extracted: 05/14/08 19:23				
Mercury	EPA 7470A	0.00456	---	0.000200	mg/l	1x	ND	0.00500	91.2%	(75-125)	2.03% (20)	--	05/15/08 13:01	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E14008 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E14008-BLK1)										Extracted: 05/14/08 13:10				
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	05/14/08 15:31	
Benzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	B
sec-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: **8E14008** Water Preparation Method: **EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E14008-BLK1)													Extracted: 05/14/08 13:10	
Hexachlorobutadiene	EPA 8260B	ND	---	2.50	ug/l	1x	--	--	--	--	--	--	05/14/08 15:31	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	B
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	B
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.750	"	"	--	--	--	--	--	--	"	

Surrogate(s):	1,2-DCA-d4	Recovery:	99.6%	Limits:	76-138%	"	05/14/08 15:31
	Toluene-d8		102%		80-120%	"	"
	4-BFB		101%		80-120%	"	"

TestAmerica Seattle

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Curtis D. Armstrong For Blake T. Meinert, Project Manager



Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: **8E14008** Water Preparation Method: **EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (8E14008-BS1)													Extracted: 05/14/08 13:10	
Benzene	EPA 8260B	37.0	---	0.200	ug/l	1x	--	40.0	92.4%	(80-120)	--	--	05/14/08 13:36	
Chlorobenzene	"	37.7	---	0.200	"	"	--	"	94.3%	"	--	--	"	
1,1-Dichloroethene	"	39.0	---	0.200	"	"	--	"	97.6%	"	--	--	"	
Methyl tert-butyl ether	"	38.3	---	1.00	"	"	--	"	95.7%	"	--	--	"	
Toluene	"	37.6	---	0.200	"	"	--	"	94.0%	(75-125)	--	--	"	
Trichloroethene	"	35.8	---	0.200	"	"	--	"	89.5%	(80-120)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 97.4%</i>		<i>Limits: 76-138%</i>								<i>05/14/08 13:36</i>		
<i>Toluene-d8</i>		<i>97.9%</i>		<i>80-120%</i>								<i>"</i>		
<i>4-BFB</i>		<i>101%</i>		<i>80-120%</i>								<i>"</i>		

LCS Dup (8E14008-BSD1)													Extracted: 05/14/08 13:10	
Benzene	EPA 8260B	38.7	---	0.200	ug/l	1x	--	40.0	96.6%	(80-120)	4.50% (20)		05/14/08 14:03	
Chlorobenzene	"	38.6	---	0.200	"	"	--	"	96.5%	"	2.33%	"	"	
1,1-Dichloroethene	"	40.7	---	0.200	"	"	--	"	102%	"	4.14%	"	"	
Methyl tert-butyl ether	"	38.7	---	1.00	"	"	--	"	96.8%	"	1.17%	"	"	
Toluene	"	38.5	---	0.200	"	"	--	"	96.3%	(75-125)	2.42%	"	"	
Trichloroethene	"	36.8	---	0.200	"	"	--	"	92.0%	(80-120)	2.78%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 100%</i>		<i>Limits: 76-138%</i>								<i>05/14/08 14:03</i>		
<i>Toluene-d8</i>		<i>98.6%</i>		<i>80-120%</i>								<i>"</i>		
<i>4-BFB</i>		<i>101%</i>		<i>80-120%</i>								<i>"</i>		

TestAmerica Seattle



Curtis D. Armstrong For Blake T. Meinert, Project Manager

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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica Spokane

QC Batch: 8050074 Water Preparation Method: Metals

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8050074-BLK1)								Extracted: 05/14/08 10:46						
Sodium	EPA 200.7	ND	---	0.500	mg/l	1x	--	--	--	--	--	--	05/14/08 11:24	
LCS (8050074-BS1)								Extracted: 05/14/08 10:46						
Sodium	EPA 200.7	9.72	---	0.500	mg/l	1x	--	10.0	97.2%	(85-115)	--	--	05/14/08 11:21	
Duplicate (8050074-DUP1)				QC Source: BRE0088-03				Extracted: 05/14/08 10:46						
Sodium	EPA 200.7	41.2	---	0.500	mg/l	1x	40.8	--	--	--	0.901% (20)	--	05/14/08 12:38	
Matrix Spike (8050074-MS1)				QC Source: BRE0088-03				Extracted: 05/14/08 10:46						
Sodium	EPA 200.7	51.1	---	0.500	mg/l	1x	40.8	10.0	102%	(75-125)	--	--	05/14/08 12:44	
Matrix Spike Dup (8050074-MSD1)				QC Source: BRE0088-03				Extracted: 05/14/08 10:46						
Sodium	EPA 200.7	51.0	---	0.500	mg/l	1x	40.8	10.0	101%	(75-125)	0.184% (20)	--	05/14/08 12:50	

TestAmerica Seattle



Curtis D. Armstrong For Blake T. Meinert, Project Manager

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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project Name: Landsburg Mine Project Number: 923-1000-002-R273 Project Manager: Douglas Morell	Report Created: 05/20/08 15:22
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Notes and Definitions

Report Specific Notes:

- B - Analyte was detected in the associated Method Blank.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

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.

TestAmerica Seattle



Curtis D. Armstrong For Blake T. Meinert, Project Manager

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APPENDIX B
SAMPLE INTEGRITY DATA SHEETS (SIDS)

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002
 Site Location Ravensdale, WA Sample ID LMW-2-0508
 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 5/16/08 Time 1145

Media Water Station LMW-2

Sample Type: grab time composite space composite

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

SWL - 6.86 ft below TOC (bottom at 209.7 ft, 4-in casing)

Sand Pack Interval - NA

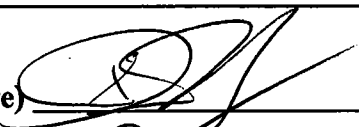
Packer Depth - 187.3 ft bgs (16 gal/total well vol)

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	Metals	HDPE	HNO3 (filter)
1 - 500 ml	Metals	HDPE	None (non)
2 - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  Date 5/16/08

Supervisor (signature)  Date 5/30/2008

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site **Project No.** 923-1000-002
Site Location Ravensdale, WA **Sample ID** LMW-3-0508
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 5/17/08 **Time** 0915

Media Water **Station** LMW-3

Sample Type: grab time composite space composite

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

SWL - 11.90 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	Metals	HDPE	HNO3 (filter)
1 - 500 ml	Metals	HDPE	None (non)
2 - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  **Date** 5/17/08

Supervisor (signature)  **Date** 5/30/2008

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002
 Site Location Ravensdale, WA Sample ID LMW-4-0508
 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 5/18/08 Time 1530

Media Water Station LMW-4

Sample Type: grab time composite space composite

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

SWL - 8.88 ft below TOC (bottom at ft, 4-in casing)

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

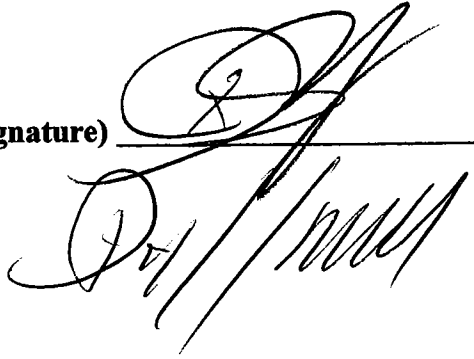
Packer Depth - 187.3 ft bgs (14 gal/total well vol)

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	Metals	HDPE	HNO3 (filter)
1 - 500 ml	Metals	HDPE	None (non)
2 - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature) 

Date 5/18/08

5/30/2008

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site **Project No.** 923-1000-002
Site Location Ravensdale, WA **Sample ID** LMW-5-0508
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 5/7/08 **Time** 1020

Media Water **Station** LMW-5

Sample Type: grab time composite space composite

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

SWL – 13.44 ft below TOC (bottom at 241.8 ft, 4-in casing)

Sand Pack Interval - NA

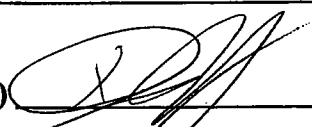
Packer Depth – 222.11 ft bgs (14 gal/total well vol)

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	Metals	HDPE	HNO3 (filter)
1 – 500 ml	Metals	HDPE	None (non)
2 – 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  **Date** 5/7/08

Supervisor (signature)  **Date** 5/30/2008

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site **Project No.** 923-1000-002
Site Location Ravensdale, WA **Sample ID** LMW-6-0508
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 5/8/08 **Time** 1340

Media Water **Station** LMW-6

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)
SWL - 23.42 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	Metals	HDPE	HNO3 (filter)
1 - 500 ml	Metals	HDPE	None (non)
2 - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  **Date** 5/8/08

Supervisor (signature)  **Date** 5/30/2008

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002
Site Location Ravensdale, WA Sample ID LMW-7-0508
Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or OED Bladder

Date 5/17/08 Time 1330

Media Water Station LMW-7

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)
SWL - 225.73 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
<u>3 - 40 mL</u>	<u>VOA</u>	<u>VOA Vial</u>	<u>HCl</u>
<u>1 - 500 ml</u>	<u>Metals</u>	<u>HDPE</u>	<u>HNO3 (filter)</u>
<u>1 - 500 ml</u>	<u>Metals</u>	<u>HDPE</u>	<u>None (non)</u>
<u>2 - 1 Liter</u>	<u>TPH-HCID</u>	<u>Glass Amber</u>	<u>HCl</u>

Sampler (signature)  Date 5/17/08

Supervisor (signature)  Date 5/30/2008

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002
 Site Location Ravensdale, WA Sample ID LMW-8-0508
 Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or QED Bladder Peristaltic Pump

Date 5/7/08 Time 1055

Media Water Station LMW-8

Sample Type: grab time composite space composite

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

SWL - 3.97 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	Metals	HDPE	HNO3 (filter)
1 - 500 ml	Metals	HDPE	None (non)
2 - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  Date 5/7/08

Supervisor (signature)  Date 5/30/2008

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002
 Site Location Ravensdale, WA Sample ID LMW-9-0508
 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 5/19/08 Time 1450
 Media Water Station LMW-9



Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)
SWL - 99.38 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	Metals	HDPE	HNO3 (filter)
1 - 500 ml	Metals	HDPE	None (non)
2 - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  Date 5/19/08
 Supervisor (signature)  Date 5/30/2008

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site Project No. 923-1000-002
 Site Location Ravensdale, WA Sample ID LMW-10-0508
 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 5/9/08 Time 0625

Media Water Station LMW-10

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

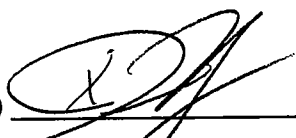
Packer Depth - NA

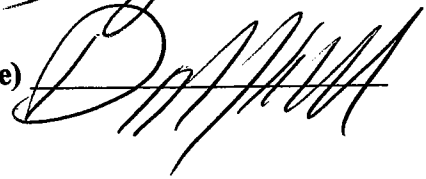
Sample Description _____

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	Metals	HDPE	HNO3 (filter)
1 - 500 ml	Metals	HDPE	None (non)
2 - 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  Date 5/9/08

Supervisor (signature)  Date 5/30/2008

FIELD PARAMETERS SHEET

Well ID LMW-10
 Date 5/9/08
 Time Begin Purge 0730
 Time Collect Sample 0825

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	DO mg/L	Turbidity NTU	Eh Rel mV
	0740	~2.25 gal	8.45	316	9.8	2.12	1.10	-165.3
	0750	4.5 gal	8.39	318	9.8	0.12	0.75	-190.7
	0800	6.75 gal	8.51	315	9.8	0.11	0.66	-201.9
	0810	9.0 gal	8.48	316	9.8	0.11	0.41	-203.9
	0820	11.25	8.44	315	9.8	0.11	0.52	-202.9

Comments:
 Distinct sulphurous odor to purge water.

Sampler's Initials XJ

SAMPLE INTEGRITY DATA SHEET

Plant/Site Landsburg Mine Site **Project No.** 923-1000-002
Site Location Ravensdale, WA **Sample ID** LMW-11-0508
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 5/19/08 **Time** 12:10
Media Water **Station** LMW-11

Sample Type: grab time composite space composite

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

SWL – 157.26 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	Metals	HDPE	HNO3 (filter)
1 – 500 ml	Metals	HDPE	None (non)
2 – 1 Liter	TPH-HCID	Glass Amber	HCl

Sampler (signature)  **Date** 5/19/08

Supervisor (signature)  **Date** 5/20/2008

