



Golder Associates Inc.

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



February 12, 2009

Golder ref: 923-1000-002.R273

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

Attention: Mr. Bill Kombol

**RE: LANDSBURG MINE SITE INTERIM GROUNDWATER MONITORING
RESULTS – NOVEMBER, 2008**

Dear Mr. Kombol:

Golder Associates Inc. (Golder) completed an interim groundwater monitoring event at the Landsburg Mine Site during November, 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.

- Analyses of groundwater for volatile organic compounds (EPA Method 8260B), semi-volatile organic compounds (EPA Method 8270C), priority pollutant metals (EPA Method 6000/7000 Series), poly-chlorinated biphenyls (EPA Method 8082), pesticides (EPA Method 8081A), 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 an iced cooler 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), semi-volatile compound (SVOC), poly-chlorinated biphenyl (PCB), pesticide, 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 November 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 8.54 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. The geochemical low reduction-oxidation (REDOX) potential of the deep groundwater from LMW-11 would likely result in a higher natural arsenic concentration in this 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 has a lower REDOX potential 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.

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 six sampling periods obtained in February 2006, December 2006, June 2007, November 2007, May 2008, and November 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.

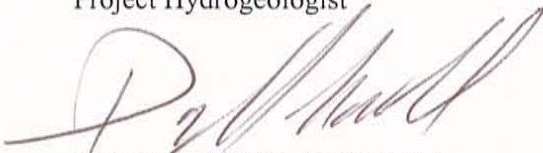
If you have any questions or require any additional information, please contact Douglas Morell at (425) 883-0777.

Sincerely,

GOLDER ASSOCIATES INC.



Ian Young
Project Hydrogeologist



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

IY/DJM

TABLES

Groundwater Elevation Data Collected November 18, 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	10:15 AM	10:20 AM	10:40 AM	9:45 AM	10:50 AM	9:20 AM	10:30 AM	10:55 AM	9:40 AM	9:50 AM	10:40 AM	10:00 AM	10:45 AM	NA	NA
Measured to Top of PVC	ft bgs	137.85	130.17	6.21	11.92	7.66	13.45	29.42	213.33	3.65	99.22	0.00	157.07	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	627.31	629.34	611.52	644.83	611.60	644.82	602.91	558.18	643.32	644.77	618.87	644.80	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 accomodate well inclination of 20° from vertical																
NA = Not applicable.																
NC = Data not collected.																

TABLE 2

November 2008 Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2 11/24/2008	LMW-3 11/21/2008	LMW-4 11/24/2008	LMW-5 11/21/2008	LMW-6 11/24/2008	LMW-7 11/21/2008	LMW-8 11/21/2008	LMW-9 11/25/2008	LMW-9 Duplicate 11/25/2008	LMW-10 11/25/2008	LMW-11 11/25/2008	Equipment Blank 11/24/2008	Trip Blank 11/21/2008	Trip Blank 11/24/2008
Field Parameter															
pH	std	6.95	7.94	6.96	7.05	6.95	7.14	7.01	7.05		8.90	7.37	NA	NA	NA
Conductivity	uS/cm	363	162.7	358	398	109.0	371	346	269		240	261	NA	NA	NA
Dissolved Oxygen	mg/L	0.09	0.05	0.08	0.06	0.17	0.14	0.10	0.06		0.10	0.52	NA	NA	NA
Temperature	°C	10.9	11.2	10.7	10.8	10.1	13.7	11.1	12.3		9.9	10.5	NA	NA	NA
E _a	Rel mV	-249.1	-29.4	-274.6	-195.0	-135.3	-131.4	5.6	-151.0		-222.9	-181.2	NA	NA	NA
Turbidity	NTU	0.24	0.18	0.36	0.25	0.99	0.64	1.95	0.84		0.36	0.71	NA	NA	NA
Metals (Total)															
Aluminum	mg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA
Antimony	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	NA	NA
Arsenic	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00304	0.00237	0.001 U	0.001 U	0.001 U	0.00854	0.001 U	NA	NA
Barium	mg/L	0.313	0.0737	0.341	0.251	0.104	0.470	0.0499	0.295	0.304	0.0355	0.254	0.01 U	NA	NA
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Calcium	mg/L	120	36.5	116	86.3	26.8	53.4	66.2	82.2	81.3	6.67	0.75 U	0.75 U	NA	NA
Chromium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00126	0.00135	0.001 U	0.001 U	0.001 U	NA	NA
Cobalt	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Copper	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Iron	mg/L	0.160	0.15 U	0.968	0.476	2.28	1.06	9.37	1.70	1.68	0.15 U	0.15 U	0.15 U	NA	NA
Lead	mg/L	0.001 U	0.00116	0.001 U	0.001 U	0.001 U	0.00149	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Magnesium	mg/L	71.6	13.8	68.2	47.1	10.8	22.3	35.3	44.1	43.6	2.51	0.5 U	0.5 U	NA	NA
Manganese	mg/L	0.220	0.0536	0.179	0.217	0.0313	0.145	0.500	0.172	0.180	0.01 U	0.140	0.01 U	NA	NA
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	NA	NA
Nickel	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00353	0.00371	0.001 U	0.00136	0.001 U	NA	NA
Potassium	mg/L	3.99	2.0 U	3.83	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	2.0 U	2.0 U	3.0 U	NA	NA
Selenium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Silver	mg/L	0.001 U	0.001 U	0.00183	0.001 U	0.00132	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00120	NA	NA
Sodium	mg/L	25.7	9.92	29.5	18.3	7.69	43.6	14.9	17.9	17.8	79.0	0.250 U	0.250 U	NA	NA
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Vanadium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA
Zinc	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.0122	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA
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	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	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	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	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	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	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 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	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	0.2 U	0.2 U	0.2 U	0.2 U
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	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	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	0.5 U	0.5 U	0.5 U

November 2008 Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2 11/24/2008	LMW-3 11/21/2008	LMW-4 11/24/2008	LMW-5 11/21/2008	LMW-6 11/24/2008	LMW-7 11/21/2008	LMW-8 11/21/2008	LMW-9 11/25/2008	LMW-9 Duplicate 11/25/2008	LMW-10 11/25/2008	LMW-11 11/25/2008	Equipment Blank 11/24/2008	Trip Blank 11/21/2008	Trip Blank 11/24/2008
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	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	0.2 U	0.2 U	0.2 U
Chloroethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	0.360	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	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	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	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	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 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	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	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	0.2 U	0.2 U	0.2 U
1,3-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	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	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	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	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	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	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	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	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	0.2 U	0.2 U	0.2 U
1,3-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	0.5 U	0.5 U	0.5 U
2,2-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	0.2 U	0.2 U	0.2 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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.5 U	0.5 U	0.5 U
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 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 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	0.2 U	0.2 U	0.2 U
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	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	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	0.520	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	0.2 U	0.2 U	0.2 U

TABLE 2

November 2008 Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2 11/24/2008	LMW-3 11/21/2008	LMW-4 11/24/2008	LMW-5 11/21/2008	LMW-6 11/24/2008	LMW-7 11/21/2008	LMW-8 11/21/2008	LMW-9 11/25/2008	LMW-9 Duplicate 11/25/2008	LMW-10 11/25/2008	LMW-11 11/25/2008	Equipment Blank 11/24/2008	Trip Blank 11/21/2008	Trip Blank 11/24/2008
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	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	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	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	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	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	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	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	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	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	0.75 U	0.75 U	0.75 U
Semivolatile Organic Compounds															
Acenaphthene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Acenaphthylene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Aniline	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Anthracene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Benzo(a)anthracene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Benzo(a)pyrene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Benzo(b)fluoranthene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Benzo(k)fluoranthene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Benzo(g,h,i)perylene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Benzoic Acid	µg/L	18.9 U	18.9 U	19.0 U	18.9 U	19.0 U	18.9 U	18.9 U	18.9 U	18.9 U	18.9 U	18.9 U	19.0 U	19.0 U	NA
Benzyl Alcohol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Bis(2-chloroethoxy)methane	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Bis(2-chloroethyl)ether	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Bis(2-chloroisopropyl)ether	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Bis(2-ethylhexyl)phthalate	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
4-Bromophenyl phenyl ether	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Butyl benzyl phthalate	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Carbazole	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
4-Chloroaniline	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
4-Chloro-3-methylphenol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
2-Chloronaphthalene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
2-Chlorophenol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
4-Chlorophenyl phenyl ether	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
3 & 4-Methylphenol (m,p-Cresols)	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
2-Methylphenol (o-Cresol)	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Chrysene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Di-n-butyl phthalate	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Dibenz(a,h)anthracene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
Dibenzofuran	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
1,2-Dichlorobenzene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
1,3-Dichlorobenzene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
1,4-Dichlorobenzene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
3,3'-Dichlorobenzidine	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA
2,4-Dichlorophenol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	9.52 U	NA

TABLE 2

November 2008 Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2 11/24/2008	LMW-3 11/21/2008	LMW-4 11/24/2008	LMW-5 11/21/2008	LMW-6 11/24/2008	LMW-7 11/21/2008	LMW-8 11/21/2008	LMW-9 11/25/2008	LMW-9 Duplicate 11/25/2008	LMW-10 11/25/2008	LMW-11 11/25/2008	Equipment Blank 11/24/2008	Trip Blank 11/21/2008	Trip Blank 11/24/2008
Diethyl phthalate	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
2,4-Dimethylphenol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Dimethyl phthalate	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
4,6-Dinitro-2-methylphenol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
2,4-Dinitrophenol	µg/L	18.9 U	18.9 U	19.0 U	18.9 U	19.0 U	18.9 U	18.9 U	18.9 U	18.9 U	18.9 U	18.9 U	19.0 U	NA	NA
2,4-Dinitrotoluene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
2,6-Dinitrotoluene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
N-Nitrosodiphenylamine	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Fluoranthene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Fluorene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Hexachlorobenzene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Hexachlorobutadiene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Hexachlorocyclopentadiene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Hexachloroethane	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Indeno(1,2,3-cd)pyrene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Isophorene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
1-Methylnaphthalene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
2-Methylnaphthalene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Naphthalene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
2-Nitroaniline	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
3-Nitroaniline	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
4-Nitroaniline	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Nitrobenzene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
2-Nitrophenol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
4-Nitrophenol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
N-Nitrosodi-n-propylamine	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Di-n-octyl phthalate	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Pentachlorophenol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Phenanthrene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
1,3,5-Trimethylbenzene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Phenol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
Pyrene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
1,2,4-Trichlorobenzene	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
2,4,5-Trichlorophenol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
2,4,6-Trichlorophenol	µg/L	9.43 U	9.43 U	9.52 U	9.43 U	9.52 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.43 U	9.52 U	NA	NA
PCBs															
Aroclor 1016 (2C)	µg/L	0.476 U	0.472 U	0.476 U	0.472 U	0.476 U	0.472 U	0.472 U	0.472 U	0.472 U	0.476 U	0.476 U	0.476 U	NA	NA
Aroclor 1221	µg/L	0.476 U	0.472 U	0.476 U	0.472 U	0.476 U	0.472 U	0.472 U	0.472 U	0.472 U	0.476 U	0.476 U	0.476 U	NA	NA
Aroclor 1232	µg/L	0.476 U	0.472 U	0.476 U	0.472 U	0.476 U	0.472 U	0.472 U	0.472 U	0.472 U	0.476 U	0.476 U	0.476 U	NA	NA
Aroclor 1242	µg/L	0.476 U	0.472 U	0.476 U	0.472 U	0.476 U	0.472 U	0.472 U	0.472 U	0.472 U	0.476 U	0.476 U	0.476 U	NA	NA
Aroclor 1248	µg/L	0.476 U	0.472 U	0.476 U	0.472 U	0.476 U	0.472 U	0.472 U	0.472 U	0.472 U	0.476 U	0.476 U	0.476 U	NA	NA
Aroclor 1254	µg/L	0.476 U	0.472 U	0.476 U	0.472 U	0.476 U	0.472 U	0.472 U	0.472 U	0.472 U	0.476 U	0.476 U	0.476 U	NA	NA
Aroclor 1260	µg/L	0.476 U	0.472 U	0.476 U	0.472 U	0.476 U	0.472 U	0.472 U	0.472 U	0.472 U	0.476 U	0.476 U	0.476 U	NA	NA
Aroclor 1262	µg/L	0.476 U	0.472 U	0.476 U	0.472 U	0.476 U	0.472 U	0.472 U	0.472 U	0.472 U	0.476 U	0.476 U	0.476 U	NA	NA
Aroclor 1268	µg/L	0.476 U	0.472 U	0.476 U	0.472 U	0.476 U	0.472 U	0.472 U	0.472 U	0.472 U	0.476 U	0.476 U	0.476 U	NA	NA

November 2008 Groundwater Analytical Results Landsburg Mine Site

ANALYTE	UNITS	LMW-2 11/24/2008	LMW-3 11/21/2008	LMW-4 11/24/2008	LMW-5 11/21/2008	LMW-6 11/24/2008	LMW-7 11/21/2008	LMW-8 11/21/2008	LMW-9 11/25/2008	LMW-9 Duplicate 11/25/2008	LMW-10 11/25/2008	LMW-11 11/25/2008	Equipment Blank 11/24/2008	Trip Blank 11/21/2008	Trip Blank 11/24/2008
Pesticides															
Aldrin (2C)	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA
alpha-BHC (2C)	µg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA
beta-BHC (2C)	µg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA
delta-BHC (2C)	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA
gamma-BHC (2C)	µg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA
alpha-Chloradine (2C)	µg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA
gamma-Chloradine (2C)	µg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA
4,4'-DDD (2C)	µg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA
4,4'-DDE (2C)	µg/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	NA	NA
4,4'-DDT (2C)	µg/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	NA	NA
Dieldrin (2C)	µg/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	NA	NA
Endosulfan I (2C)	µg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA
Endosulfan II (2C)	µg/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	NA	NA
Endosulfan sulfate (2C)	µg/L	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	NA	NA
Endrin	µg/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	NA	NA
Endrin aldehyde (2C)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	NA	NA
Endrin ketone (2C)	µg/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	NA	NA
Heptachlor (2C)	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA
Heptachlor epoxide (2C)	µg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA
Methoxychlor (2C)	µg/L	0.476 U	0.472 U	0.476 U	0.472 U	0.476 U	0.472 U	0.472 U	0.472 U	0.472 U	0.476 U	0.476 U	0.476 U	NA	NA
Hydrocarbon Identification															
Diesel Range	mg/L	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NA	NA
Gas Range	mg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	NA	NA
Heavy Fuel Oil	mg/L	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	NA	NA

FIGURE

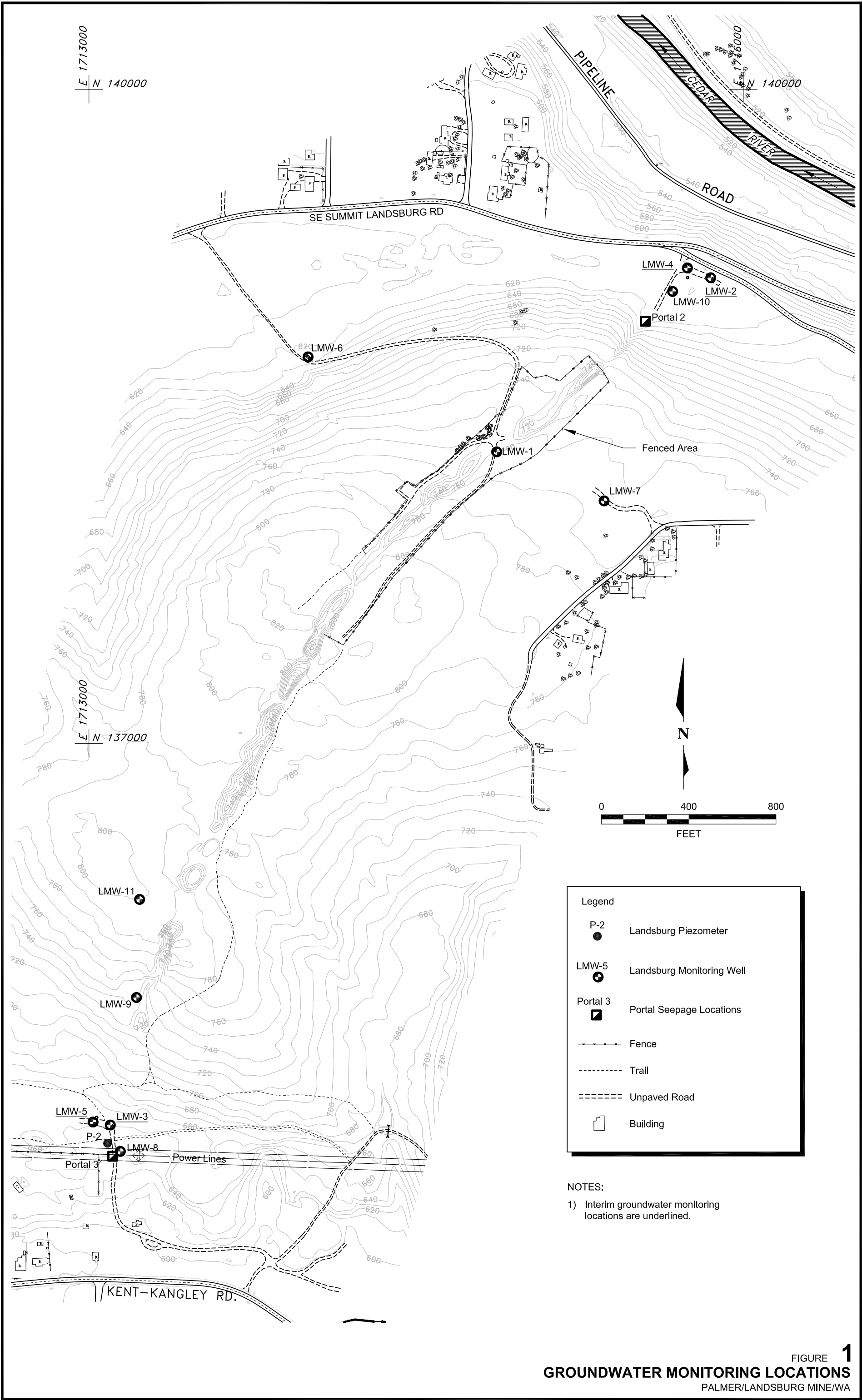


FIGURE 1
GROUNDWATER MONITORING LOCATIONS
PALMER/LANDSBURG MINE/WA

APPENDIX A
LABORATORY ANALYTICAL REPORTS

December 08, 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 11/21/08 15:40.
The following list is a summary of the Work Orders contained in this report, generated on 12/08/08 17:35.

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

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRK0270	Landsburg Mine	923-1000-002-R273

TestAmerica Seattle



Kate Haney, 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

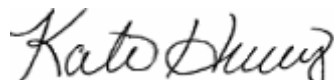
Report Created:

12/08/08 17:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-5-1108	BRK0270-01	Water	11/21/08 08:55	11/21/08 15:40
LMW-8-1108	BRK0270-02	Water	11/21/08 10:25	11/21/08 15:40
LMW-3-1108	BRK0270-03	Water	11/21/08 11:30	11/21/08 15:40
LMW-7-1108	BRK0270-04	Water	11/21/08 14:00	11/21/08 15:40
Trip Blank	BRK0270-05	Water	11/21/08 15:40	11/21/08 15:40

TestAmerica Seattle



Kate Haney, 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:
12/08/08 17:35

Analytical Case Narrative

TestAmerica - Seattle, WA

BRK0270

SAMPLE RECEIPT

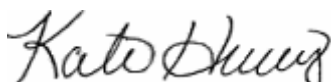
The samples were received November 21st, 2008 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 10.8 degrees Celsius which is outside the recommended temperature range of 2-6 Degrees Celsius. The samples are considered acceptable as they were recieved on-ice within four hours of the collection of the last sampled time on the COC.

PREPARATIONS AND ANALYSIS

8081 Pesticides: The samples were initially extracted in laboratory batch 8K25012. The percent recovery for Endrin was below the established acceptance criteria in the laboratory blank spike and blank spike duplicate. Additionally, the RPD for Endrin was above the established acceptance criteria in the blank spike duplicate. The samples were re-extracted outside the method established hold time in laboratory batch 8L03015 with passing Endrin recoveries. Both sets of results were reported.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Kate Haney, 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:
 12/08/08 17:35

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 TestAmerica Seattle

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

BRK0270-01RE1 (LMW-5-1108)

Water

Sampled: 11/21/08 08:55

Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.236	mg/l	1x	8K25014	11/25/08 11:56	11/26/08 16:56	
Diesel Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			128%		50 - 150 %	"				"
<i>Octacosane</i>			97.5%		50 - 150 %	"				"

BRK0270-02RE1 (LMW-8-1108)

Water

Sampled: 11/21/08 10:25

Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.238	mg/l	1x	8K25014	11/25/08 11:56	11/26/08 17:18	
Diesel Range Hydrocarbons	"	ND	----	0.600	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.600	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			118%		50 - 150 %	"				"
<i>Octacosane</i>			96.3%		50 - 150 %	"				"

BRK0270-03RE1 (LMW-3-1108)

Water

Sampled: 11/21/08 11:30

Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.238	mg/l	1x	8K25014	11/25/08 11:56	11/26/08 17:40	
Diesel Range Hydrocarbons	"	ND	----	0.600	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.600	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			121%		50 - 150 %	"				"
<i>Octacosane</i>			93.7%		50 - 150 %	"				"

BRK0270-04RE1 (LMW-7-1108)

Water

Sampled: 11/21/08 14:00

Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.236	mg/l	1x	8K25014	11/25/08 11:56	11/26/08 18:02	
Diesel Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			125%		50 - 150 %	"				"
<i>Octacosane</i>			99.4%		50 - 150 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/08/08 17:35

Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-01 (LMW-5-1108)		Water		Sampled: 11/21/08 08:55						
Aluminum	EPA 6010B	ND	----	0.200	mg/l	1x	8K24009	11/24/08 09:24	11/24/08 14:44	
Antimony	EPA 6020	ND	----	0.00300	"	"	8K24020	11/24/08 11:38	11/28/08 09:43	
Arsenic	"	ND	----	0.00100	"	"	"	"	"	
Barium	"	0.251	----	0.0100	"	"	"	"	"	
Beryllium	"	ND	----	0.00100	"	"	"	"	"	
Cadmium	"	ND	----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	86.3	----	0.750	"	"	8K24009	11/24/08 09:24	11/24/08 14:44	
Chromium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 09:43	
Cobalt	"	ND	----	0.00100	"	"	"	"	"	
Copper	"	ND	----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	0.476	----	0.150	"	"	8K24009	11/24/08 09:24	11/24/08 14:44	
Lead	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 09:43	
Magnesium	EPA 6010B	47.1	----	0.500	"	"	8K24009	11/24/08 09:24	11/24/08 14:44	
Manganese	EPA 6020	0.217	----	0.0100	"	"	8K24020	11/24/08 11:38	11/28/08 09:43	
Mercury	EPA 7470A	ND	----	0.000200	"	"	8K24052	11/24/08 17:09	11/25/08 14:22	
Nickel	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 09:43	
Potassium	EPA 6010B	ND	----	3.00	"	"	8K24009	11/24/08 09:24	11/24/08 14:44	
Selenium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 09:43	
Silver	"	ND	----	0.00100	"	"	"	"	12/01/08 11:56	
Sodium	EPA 6010B	18.3	----	0.250	"	"	8K24009	11/24/08 09:24	11/24/08 14:44	
Thallium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 09:43	
Vanadium	"	ND	----	0.00100	"	"	"	"	"	
Zinc	"	ND	----	0.0100	"	"	"	"	"	
BRK0270-02 (LMW-8-1108)		Water		Sampled: 11/21/08 10:25						
Aluminum	EPA 6010B	ND	----	0.200	mg/l	1x	8K24009	11/24/08 09:24	11/24/08 15:18	
Antimony	EPA 6020	ND	----	0.00300	"	"	8K24020	11/24/08 11:38	11/28/08 09:55	
Arsenic	"	0.00237	----	0.00100	"	"	"	"	"	
Barium	"	0.0499	----	0.0100	"	"	"	"	"	
Beryllium	"	ND	----	0.00100	"	"	"	"	"	
Cadmium	"	ND	----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	66.2	----	0.750	"	"	8K24009	11/24/08 09:24	11/24/08 15:18	
Chromium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 09:55	
Cobalt	"	ND	----	0.00100	"	"	"	"	"	
Copper	"	ND	----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	9.37	----	0.150	"	"	8K24009	11/24/08 09:24	11/24/08 15:18	
Lead	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 09:55	
Magnesium	EPA 6010B	35.3	----	0.500	"	"	8K24009	11/24/08 09:24	11/24/08 15:18	
Mercury	EPA 7470A	ND	----	0.000200	"	"	8K24052	11/24/08 17:09	11/25/08 14:33	
Nickel	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 09:55	
Potassium	EPA 6010B	ND	----	3.00	"	"	8K24009	11/24/08 09:24	11/24/08 15:18	
Selenium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 09:55	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-02 (LMW-8-1108)		Water		Sampled: 11/21/08 10:25						
Silver	EPA 6020	ND	----	0.00100	mg/l	1x	8K24020	11/24/08 11:38	12/01/08 12:01	
Sodium	EPA 6010B	14.9	----	0.250	"	"	8K24009	11/24/08 09:24	11/24/08 15:18	
Thallium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 09:55	
Vanadium	"	ND	----	0.00100	"	"	"	"	"	
Zinc	"	ND	----	0.0100	"	"	"	"	"	
BRK0270-02RE1 (LMW-8-1108)		Water		Sampled: 11/21/08 10:25						
Manganese	EPA 6020	0.500	----	0.0200	mg/l	2x	8K24020	11/24/08 11:38	11/28/08 12:44	
BRK0270-03 (LMW-3-1108)		Water		Sampled: 11/21/08 11:30						
Aluminum	EPA 6010B	ND	----	0.200	mg/l	1x	8K24009	11/24/08 09:24	11/24/08 15:22	
Antimony	EPA 6020	ND	----	0.00300	"	"	8K24020	11/24/08 11:38	11/28/08 10:01	
Arsenic	"	ND	----	0.00100	"	"	"	"	"	
Barium	"	0.0737	----	0.0100	"	"	"	"	"	
Beryllium	"	ND	----	0.00100	"	"	"	"	"	
Cadmium	"	ND	----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	36.5	----	0.750	"	"	8K24009	11/24/08 09:24	11/24/08 15:22	
Chromium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 10:01	
Cobalt	"	ND	----	0.00100	"	"	"	"	"	
Copper	"	ND	----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	ND	----	0.150	"	"	8K24009	11/24/08 09:24	11/24/08 15:22	
Lead	EPA 6020	0.00116	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 10:01	
Magnesium	EPA 6010B	13.8	----	0.500	"	"	8K24009	11/24/08 09:24	11/24/08 15:22	
Manganese	EPA 6020	0.0536	----	0.0100	"	"	8K24020	11/24/08 11:38	11/28/08 10:01	
Mercury	EPA 7470A	ND	----	0.000200	"	"	8K24052	11/24/08 17:09	11/25/08 14:36	
Nickel	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 10:01	
Potassium	EPA 6010B	ND	----	3.00	"	"	8K24009	11/24/08 09:24	11/24/08 15:22	
Selenium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 10:01	
Silver	"	ND	----	0.00100	"	"	"	"	12/01/08 12:07	
Sodium	EPA 6010B	9.92	----	0.250	"	"	8K24009	11/24/08 09:24	11/24/08 15:22	
Thallium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 10:01	
Vanadium	"	ND	----	0.00100	"	"	"	"	"	
Zinc	"	ND	----	0.0100	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-04 (LMW-7-1108)		Water		Sampled: 11/21/08 14:00						
Aluminum	EPA 6010B	ND	----	0.200	mg/l	1x	8K24009	11/24/08 09:24	11/24/08 15:26	
Antimony	EPA 6020	ND	----	0.00300	"	"	8K24020	11/24/08 11:38	11/28/08 10:06	
Arsenic	"	0.00304	----	0.00100	"	"	"	"	"	
Beryllium	"	ND	----	0.00100	"	"	"	"	"	
Cadmium	"	ND	----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	53.4	----	0.750	"	"	8K24009	11/24/08 09:24	11/24/08 15:26	
Chromium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 10:06	
Cobalt	"	ND	----	0.00100	"	"	"	"	"	
Copper	"	ND	----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	1.06	----	0.150	"	"	8K24009	11/24/08 09:24	11/24/08 15:26	
Lead	EPA 6020	0.00149	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 10:06	
Magnesium	EPA 6010B	22.3	----	0.500	"	"	8K24009	11/24/08 09:24	11/24/08 15:26	
Manganese	EPA 6020	0.145	----	0.0100	"	"	8K24020	11/24/08 11:38	11/28/08 10:06	
Mercury	EPA 7470A	ND	----	0.000200	"	"	8K24052	11/24/08 17:09	11/25/08 14:38	
Nickel	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 10:06	
Potassium	EPA 6010B	ND	----	3.00	"	"	8K24009	11/24/08 09:24	11/24/08 15:26	
Selenium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 10:06	
Silver	"	ND	----	0.00100	"	"	"	"	12/01/08 12:13	
Sodium	EPA 6010B	43.6	----	0.250	"	"	8K24009	11/24/08 09:24	11/24/08 15:26	
Thallium	EPA 6020	ND	----	0.00100	"	"	8K24020	11/24/08 11:38	11/28/08 10:06	
Vanadium	"	ND	----	0.00100	"	"	"	"	"	
Zinc	"	ND	----	0.0100	"	"	"	"	"	
BRK0270-04RE1 (LMW-7-1108)		Water		Sampled: 11/21/08 14:00						
Barium	EPA 6020	0.470	----	0.0500	mg/l	5x	8K24020	11/24/08 11:38	11/28/08 10:12	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

Organochlorine Pesticides by EPA Method 8081A
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-01 (LMW-5-1108)		Water					Sampled: 11/21/08 08:55			
Aldrin	EPA 8081A	ND	----	0.0472	ug/l	1x	8K25012	11/25/08 11:55	12/02/08 11:56	
alpha-BHC	"	ND	----	0.0377	"	"	"	"	"	
beta-BHC	"	ND	----	0.0377	"	"	"	"	"	
delta-BHC [2C]	"	ND	----	0.0472	"	"	"	"	"	L
gamma-BHC (Lindane)	"	ND	----	0.0377	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0377	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0377	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0377	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0755	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0755	"	"	"	"	"	
Dieldrin	"	ND	----	0.0755	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0189	"	"	"	"	"	
Endosulfan II	"	ND	----	0.0755	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	0.0943	"	"	"	"	"	
Endrin	"	ND	----	0.0755	"	"	"	"	"	L2
Endrin aldehyde	"	ND	----	0.151	"	"	"	"	"	L
Endrin ketone	"	ND	----	0.0755	"	"	"	"	"	L
Heptachlor	"	ND	----	0.0472	"	"	"	"	"	L
Heptachlor epoxide	"	ND	----	0.0377	"	"	"	"	"	
Methoxychlor [2C]	"	ND	----	0.472	"	"	"	"	"	

Surrogate(s): TCX 80.9% 10 - 120 % "

Decachlorobiphenyl [2C] 78.8% 10 - 142 % "

BRK0270-01RE1 (LMW-5-1108)		Water					Sampled: 11/21/08 08:55			H8
Endrin [2C]	EPA 8081A	ND	----	0.0762	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 14:09	
Surrogate(s): TCX [2C]				78.5%			10 - 120 %		"	
Decachlorobiphenyl [2C]				81.4%			10 - 142 %		"	

BRK0270-02 (LMW-8-1108)		Water					Sampled: 11/21/08 10:25			
Aldrin	EPA 8081A	ND	----	0.0472	ug/l	1x	8K25012	11/25/08 11:55	12/02/08 12:15	
alpha-BHC	"	ND	----	0.0377	"	"	"	"	"	
beta-BHC	"	ND	----	0.0377	"	"	"	"	"	
delta-BHC [2C]	"	ND	----	0.0472	"	"	"	"	"	L
gamma-BHC (Lindane)	"	ND	----	0.0377	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0377	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0377	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0377	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0755	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0755	"	"	"	"	"	
Dieldrin	"	ND	----	0.0755	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0189	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

Organochlorine Pesticides by EPA Method 8081A
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BRK0270-02 (LMW-8-1108)		Water			Sampled: 11/21/08 10:25						
Endosulfan II	EPA 8081A	ND	----	0.0755	ug/l	1x	8K25012	11/25/08 11:55	12/02/08 12:15		
Endosulfan sulfate	"	ND	----	0.0943	"	"	"	"	"		
Endrin	"	ND	----	0.0755	"	"	"	"	"	L2	
Endrin aldehyde	"	ND	----	0.151	"	"	"	"	"	L	
Endrin ketone	"	ND	----	0.0755	"	"	"	"	"	L	
Heptachlor	"	ND	----	0.0472	"	"	"	"	"		
Heptachlor epoxide	"	ND	----	0.0377	"	"	"	"	"		
Methoxychlor [2C]	"	ND	----	0.472	"	"	"	"	"		
Surrogate(s): TCX		75.6%		10 - 120 %		"		"			
Decachlorobiphenyl [2C]		58.5%		10 - 142 %		"		"			
BRK0270-02RE1 (LMW-8-1108)		Water			Sampled: 11/21/08 10:25						H8
Endrin [2C]	EPA 8081A	ND	----	0.0762	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 14:27		
Surrogate(s): TCX [2C]		72.5%		10 - 120 %		"		"			
Decachlorobiphenyl [2C]		70.1%		10 - 142 %		"		"			
BRK0270-03 (LMW-3-1108)		Water			Sampled: 11/21/08 11:30						
Aldrin	EPA 8081A	ND	----	0.0472	ug/l	1x	8K25012	11/25/08 11:55	12/02/08 12:33		
alpha-BHC	"	ND	----	0.0377	"	"	"	"	"		
beta-BHC	"	ND	----	0.0377	"	"	"	"	"		
delta-BHC [2C]	"	ND	----	0.0472	"	"	"	"	"	L	
gamma-BHC (Lindane)	"	ND	----	0.0377	"	"	"	"	"		
alpha-Chlordane	"	ND	----	0.0377	"	"	"	"	"		
gamma-Chlordane	"	ND	----	0.0377	"	"	"	"	"		
4,4'-DDD	"	ND	----	0.0377	"	"	"	"	"		
4,4'-DDE	"	ND	----	0.0755	"	"	"	"	"		
4,4'-DDT	"	ND	----	0.0755	"	"	"	"	"		
Dieldrin	"	ND	----	0.0755	"	"	"	"	"		
Endosulfan I	"	ND	----	0.0189	"	"	"	"	"		
Endosulfan II	"	ND	----	0.0755	"	"	"	"	"		
Endosulfan sulfate	"	ND	----	0.0943	"	"	"	"	"		
Endrin	"	ND	----	0.0755	"	"	"	"	"	L2	
Endrin aldehyde	"	ND	----	0.151	"	"	"	"	"	L	
Endrin ketone	"	ND	----	0.0755	"	"	"	"	"	L	
Heptachlor	"	ND	----	0.0472	"	"	"	"	"	L	
Heptachlor epoxide	"	ND	----	0.0377	"	"	"	"	"		
Methoxychlor [2C]	"	ND	----	0.472	"	"	"	"	"		
Surrogate(s): TCX		79.0%		10 - 120 %		"		"			
Decachlorobiphenyl [2C]		81.9%		10 - 142 %		"		"			

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-03RE1 (LMW-3-1108)		Water		Sampled: 11/21/08 11:30						H8
Endrin [2C]	EPA 8081A	ND	----	0.0755	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 14:46	
<i>Surrogate(s): TCX [2C]</i>			73.0%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			79.8%		10 - 142 %	"			"	
BRK0270-04 (LMW-7-1108)		Water		Sampled: 11/21/08 14:00						
Aldrin	EPA 8081A	ND	----	0.0472	ug/l	1x	8K25012	11/25/08 11:55	12/02/08 12:50	
alpha-BHC	"	ND	----	0.0377	"	"	"	"	"	
beta-BHC	"	ND	----	0.0377	"	"	"	"	"	
delta-BHC [2C]	"	ND	----	0.0472	"	"	"	"	"	L
gamma-BHC (Lindane)	"	ND	----	0.0377	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0377	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0377	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0377	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0755	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0755	"	"	"	"	"	
Dieldrin	"	ND	----	0.0755	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0189	"	"	"	"	"	
Endosulfan II	"	ND	----	0.0755	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	0.0943	"	"	"	"	"	
Endrin	"	ND	----	0.0755	"	"	"	"	"	L2
Endrin aldehyde	"	ND	----	0.151	"	"	"	"	"	L
Endrin ketone	"	ND	----	0.0755	"	"	"	"	"	L
Heptachlor	"	ND	----	0.0472	"	"	"	"	"	L
Heptachlor epoxide	"	ND	----	0.0377	"	"	"	"	"	
Methoxychlor [2C]	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): TCX</i>			72.4%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			83.2%		10 - 142 %	"			"	
BRK0270-04RE1 (LMW-7-1108)		Water		Sampled: 11/21/08 14:00						H8
Endrin [2C]	EPA 8081A	ND	----	0.0755	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 15:04	
<i>Surrogate(s): TCX [2C]</i>			78.1%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			87.1%		10 - 142 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Polychlorinated Biphenyls by EPA Method 8082
 TestAmerica Seattle

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

BRK0270-01 (LMW-5-1108)

Water

Sampled: 11/21/08 08:55

Aroclor 1016	EPA 8082	ND	----	0.472	ug/l	1x	8K25012	11/25/08 11:55	11/27/08 16:56	
Aroclor 1221	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.472	"	"	"	"	"	

Surrogate(s): TCX 81.2% 36 - 134 % "

Decachlorobiphenyl 74.9% 15 - 124 % "

BRK0270-02 (LMW-8-1108)

Water

Sampled: 11/21/08 10:25

Aroclor 1016	EPA 8082	ND	----	0.472	ug/l	1x	8K25012	11/25/08 11:55	11/27/08 17:12	
Aroclor 1221	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.472	"	"	"	"	"	

Surrogate(s): TCX 75.2% 36 - 134 % "

Decachlorobiphenyl 63.6% 15 - 124 % "

BRK0270-03 (LMW-3-1108)

Water

Sampled: 11/21/08 11:30

Aroclor 1016	EPA 8082	ND	----	0.472	ug/l	1x	8K25012	11/25/08 11:55	11/27/08 17:28	
Aroclor 1221	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.472	"	"	"	"	"	

Surrogate(s): TCX 80.9% 36 - 134 % "

Decachlorobiphenyl 85.8% 15 - 124 % "

TestAmerica Seattle

Kate Haney

Kate Haney, 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

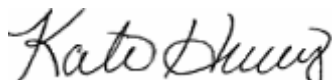
Project Name: **Landsburg Mine**
 Project Number: 923-1000-002-R273
 Project Manager: Douglas Morell

Report Created:
 12/08/08 17:35

Polychlorinated Biphenyls by EPA Method 8082
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-04 (LMW-7-1108)		Water					Sampled: 11/21/08 14:00			
Aroclor 1016	EPA 8082	ND	----	0.472	ug/l	1x	8K25012	11/25/08 11:55	11/27/08 17:44	
Aroclor 1221	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): TCX</i>				79.3%		36 - 134 %	"			"
<i>Decachlorobiphenyl</i>				87.9%		15 - 124 %	"			"

TestAmerica Seattle



Kate Haney, 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:

12/08/08 17:35

Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-01 (LMW-5-1108)		Water		Sampled: 11/21/08 08:55						
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28016	11/26/08 13:53	11/27/08 00:04	
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

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

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

BRK0270-01 (LMW-5-1108)

Water

Sampled: 11/21/08 08:55

Isopropylbenzene	EPA 8260B	ND	----	0.500	ug/l	1x	8K28016	11/26/08 13:53	11/27/08 00:04	
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	108%	76 - 138 %	"	"
	Toluene-d8	97.8%	80 - 120 %	"	"
	4-BFB	99.4%	80 - 120 %	"	"

BRK0270-02 (LMW-8-1108)

Water

Sampled: 11/21/08 10:25

Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28016	11/26/08 13:53	11/27/08 00:32	
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

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-02 (LMW-8-1108)		Water		Sampled: 11/21/08 10:25						
Chlorobenzene	EPA 8260B	ND	----	0.200	ug/l	1x	8K28016	11/26/08 13:53	11/27/08 00:32	
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	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	----	0.200	"	"	"	"	"	
Toluene	"	ND	----	0.200	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/08/08 17:35

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-02 (LMW-8-1108)		Water		Sampled: 11/21/08 10:25						
1,1,1-Trichloroethane	EPA 8260B	ND	----	0.200	ug/l	1x	8K28016	11/26/08 13:53	11/27/08 00:32	
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>			<i>110%</i>		<i>76 - 138 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>97.0%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>97.5%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>	

BRK0270-03 (LMW-3-1108)		Water		Sampled: 11/21/08 11:30						
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28016	11/26/08 13:53	11/27/08 01:01	
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

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-03 (LMW-3-1108)		Water		Sampled: 11/21/08 11:30						
Dichlorodifluoromethane	EPA 8260B	ND	----	0.500	ug/l	1x	8K28016	11/26/08 13:53	11/27/08 01:01	
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	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4		112%		76 - 138 %		"		"		

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-03 (LMW-3-1108)		Water					Sampled: 11/21/08 11:30			
<i>Toluene-d8</i>		97.4%		80 - 120 %		1x			11/27/08 01:01	
<i>4-BFB</i>		97.1%		80 - 120 %		"			"	
BRK0270-04 (LMW-7-1108)		Water					Sampled: 11/21/08 14:00			
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 15:26	
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	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-04 (LMW-7-1108)		Water		Sampled: 11/21/08 14:00						
Ethylbenzene	EPA 8260B	ND	----	0.200	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 15:26	
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>			<i>110%</i>		<i>76 - 138 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>105%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>97.2%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/08/08 17:35

Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-05 (Trip Blank)										
		Water					Sampled: 11/21/08 15:40			
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28016	11/26/08 13:53	11/26/08 21:40	
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

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-05 (Trip Blank)		Water		Sampled: 11/21/08 15:40						
Isopropylbenzene	EPA 8260B	ND	----	0.500	ug/l	1x	8K28016	11/26/08 13:53	11/26/08 21:40	
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>			101%		76 - 138 %	"			"	
<i>Toluene-d8</i>			93.6%		80 - 120 %	"			"	
<i>4-BFB</i>			98.5%		80 - 120 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/08/08 17:35

Semivolatile Organic Compounds by EPA Method 8270C
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-01 (LMW-5-1108)		Water		Sampled: 11/21/08 08:55						
Acenaphthene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 13:37	
Acenaphthylene	"	ND	----	9.43	"	"	"	"	"	
Aniline	"	ND	----	9.43	"	"	"	"	"	
Anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.43	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.43	"	"	"	"	"	
Benzoic Acid	"	ND	----	18.9	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.43	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Carbazole	"	ND	----	9.43	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.43	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.43	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.43	"	"	"	"	"	
Chrysene	"	ND	----	9.43	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.43	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.43	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.43	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.43	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.43	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	18.9	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.43	"	"	"	"	"	
Fluoranthene	"	ND	----	9.43	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-01 (LMW-5-1108)		Water		Sampled: 11/21/08 08:55						
Fluorene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 13:37	
Hexachlorobenzene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.43	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.43	"	"	"	"	"	
Isophorone	"	ND	----	9.43	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
Naphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.43	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.43	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.43	"	"	"	"	"	
Phenanthrene	"	ND	----	9.43	"	"	"	"	"	
Phenol	"	ND	----	9.43	"	"	"	"	"	
Pyrene	"	ND	----	9.43	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			79.4%		44 - 120 %	"			"	
<i>2-FP</i>			70.3%		16 - 120 %	"			"	
<i>Nitrobenzene-d5</i>			79.6%		38 - 120 %	"			"	
<i>Phenol-d6</i>			68.6%		16 - 120 %	"			"	
<i>p-Terphenyl-d14</i>			66.1%		24 - 146 %	"			"	
<i>2,4,6-TBP</i>			75.5%		32 - 135 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/08/08 17:35

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-02 (LMW-8-1108)		Water		Sampled: 11/21/08 10:25						
Acenaphthene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 14:01	
Acenaphthylene	"	ND	----	9.43	"	"	"	"	"	
Aniline	"	ND	----	9.43	"	"	"	"	"	
Anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.43	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.43	"	"	"	"	"	
Benzoic Acid	"	ND	----	18.9	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.43	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Carbazole	"	ND	----	9.43	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.43	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.43	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.43	"	"	"	"	"	
Chrysene	"	ND	----	9.43	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.43	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.43	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.43	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.43	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.43	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	18.9	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.43	"	"	"	"	"	
Fluoranthene	"	ND	----	9.43	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/08/08 17:35

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-02 (LMW-8-1108)		Water		Sampled: 11/21/08 10:25						
Fluorene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 14:01	
Hexachlorobenzene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.43	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.43	"	"	"	"	"	
Isophorone	"	ND	----	9.43	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
Naphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.43	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.43	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.43	"	"	"	"	"	
Phenanthrene	"	ND	----	9.43	"	"	"	"	"	
Phenol	"	ND	----	9.43	"	"	"	"	"	
Pyrene	"	ND	----	9.43	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			79.2%		44 - 120 %	"			"	
<i>2-FP</i>			69.8%		16 - 120 %	"			"	
<i>Nitrobenzene-d5</i>			78.6%		38 - 120 %	"			"	
<i>Phenol-d6</i>			68.9%		16 - 120 %	"			"	
<i>p-Terphenyl-d14</i>			67.0%		24 - 146 %	"			"	
<i>2,4,6-TBP</i>			77.7%		32 - 135 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/08/08 17:35

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-03 (LMW-3-1108)		Water		Sampled: 11/21/08 11:30						
Acenaphthene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 14:26	
Acenaphthylene	"	ND	----	9.43	"	"	"	"	"	
Aniline	"	ND	----	9.43	"	"	"	"	"	
Anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.43	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.43	"	"	"	"	"	
Benzoic Acid	"	ND	----	18.9	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.43	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Carbazole	"	ND	----	9.43	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.43	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.43	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.43	"	"	"	"	"	
Chrysene	"	ND	----	9.43	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.43	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.43	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.43	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.43	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.43	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	18.9	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.43	"	"	"	"	"	
Fluoranthene	"	ND	----	9.43	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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

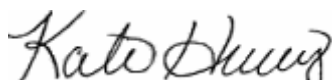
Project Name: **Landsburg Mine**
 Project Number: 923-1000-002-R273
 Project Manager: Douglas Morell

Report Created:
 12/08/08 17:35

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-03 (LMW-3-1108)		Water		Sampled: 11/21/08 11:30						
Fluorene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 14:26	
Hexachlorobenzene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.43	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.43	"	"	"	"	"	
Isophorone	"	ND	----	9.43	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
Naphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.43	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.43	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.43	"	"	"	"	"	
Phenanthrene	"	ND	----	9.43	"	"	"	"	"	
Phenol	"	ND	----	9.43	"	"	"	"	"	
Pyrene	"	ND	----	9.43	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			77.3%		44 - 120 %	"			"	
<i>2-FP</i>			69.9%		16 - 120 %	"			"	
<i>Nitrobenzene-d5</i>			78.6%		38 - 120 %	"			"	
<i>Phenol-d6</i>			68.5%		16 - 120 %	"			"	
<i>p-Terphenyl-d14</i>			63.7%		24 - 146 %	"			"	
<i>2,4,6-TBP</i>			69.4%		32 - 135 %	"			"	

TestAmerica Seattle



Kate Haney, 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:

12/08/08 17:35

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-04 (LMW-7-1108)		Water		Sampled: 11/21/08 14:00						
Acenaphthene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 14:51	
Acenaphthylene	"	ND	----	9.43	"	"	"	"	"	
Aniline	"	ND	----	9.43	"	"	"	"	"	
Anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.43	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.43	"	"	"	"	"	
Benzoic Acid	"	ND	----	18.9	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.43	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Carbazole	"	ND	----	9.43	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.43	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.43	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.43	"	"	"	"	"	
Chrysene	"	ND	----	9.43	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.43	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.43	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.43	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.43	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.43	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	18.9	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.43	"	"	"	"	"	
Fluoranthene	"	ND	----	9.43	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0270-04 (LMW-7-1108)		Water		Sampled: 11/21/08 14:00						
Fluorene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 14:51	
Hexachlorobenzene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.43	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.43	"	"	"	"	"	
Isophorone	"	ND	----	9.43	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
Naphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.43	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.43	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.43	"	"	"	"	"	
Phenanthrene	"	ND	----	9.43	"	"	"	"	"	
Phenol	"	ND	----	9.43	"	"	"	"	"	
Pyrene	"	ND	----	9.43	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
Surrogate(s): 2-FBP		76.8%		44 - 120 %	"				"	
2-FP		68.5%		16 - 120 %	"				"	
Nitrobenzene-d5		77.9%		38 - 120 %	"				"	
Phenol-d6		68.3%		16 - 120 %	"				"	
p-Terphenyl-d14		64.4%		24 - 146 %	"				"	
2,4,6-TBP		71.1%		32 - 135 %	"				"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

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

TestAmerica Seattle

QC Batch: 8K25014

Water Preparation Method: EPA 3520C

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

Blank (8K25014-BLK1)

Extracted: 11/25/08 11:56

Gx Range Hydrocarbons	NWTPH-HCI	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	11/26/08 15:50	
	D													
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: 118% Limits: 50-150% " 11/26/08 15:50
 Octacosane 92.0% 50-150% " "

LCS (8K25014-BS1)

Extracted: 11/25/08 11:56

Diesel Range Hydrocarbons	NWTPH-HCI	DET	---	0.630	mg/l	1x	--	2.00	83.8%	(58-125)	--	--	11/26/08 16:12	
	D													
Lube Oil Range Hydrocarbons	"	DET	---	0.630	"	"	--	"	89.7%	(60-140)	--	--	"	

Surrogate(s): 2-FBP Recovery: 116% Limits: 50-150% " 11/26/08 16:12
 Octacosane 91.4% 50-150% " "

LCS Dup (8K25014-BSD1)

Extracted: 11/25/08 11:56

Diesel Range Hydrocarbons	NWTPH-HCI	DET	---	0.630	mg/l	1x	--	2.00	89.2%	(58-125)	6.18%	(40)	11/26/08 16:34	
	D													
Lube Oil Range Hydrocarbons	"	DET	---	0.630	"	"	--	"	92.2%	(60-140)	2.77%	"	"	

Surrogate(s): 2-FBP Recovery: 131% Limits: 50-150% " 11/26/08 16:34
 Octacosane 94.7% 50-150% " "

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

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

TestAmerica Seattle

QC Batch: 8K24009

Water Preparation Method: EPA 3010A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K24009-BLK1)										Extracted: 11/24/08 09:24				
Iron	EPA 6010B	ND	---	0.150	mg/l	1x	--	--	--	--	--	--	11/24/08 14:24	
Potassium	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Aluminum	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Calcium	"	ND	---	0.750	"	"	--	--	--	--	--	--	"	
Magnesium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Sodium	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
LCS (8K24009-BS1)										Extracted: 11/24/08 09:24				
Magnesium	EPA 6010B	4.69	---	0.500	mg/l	1x	--	5.00	93.9%	(80-120)	--	--	11/24/08 14:28	
Calcium	"	4.89	---	0.750	"	"	--	"	97.8%	"	--	--	"	
Iron	"	5.32	---	0.150	"	"	--	"	106%	"	--	--	"	
Aluminum	"	5.09	---	0.250	"	"	--	"	102%	"	--	--	"	
Potassium	"	9.49	---	3.00	"	"	--	10.0	94.9%	"	--	--	"	
Sodium	"	5.01	---	0.250	"	"	--	5.00	100%	"	--	--	"	
Duplicate (8K24009-DUP1)										QC Source: BRK0270-01 Extracted: 11/24/08 09:24				
Aluminum	EPA 6010B	ND	---	0.250	mg/l	1x	ND	--	--	--	NR	(25)	11/24/08 14:36	
Magnesium	"	48.9	---	0.500	"	"	47.1	--	--	--	3.73%	(30)	"	
Sodium	"	19.0	---	0.250	"	"	18.3	--	--	--	3.96%	"	"	
Potassium	"	ND	---	3.00	"	"	ND	--	--	--	2.48%	"	"	
Iron	"	0.492	---	0.150	"	"	0.476	--	--	--	3.31%	"	"	
Calcium	"	90.3	---	0.750	"	"	86.3	--	--	--	4.52%	(25)	"	
Matrix Spike (8K24009-MS1)										QC Source: BRK0270-01 Extracted: 11/24/08 09:24				
Iron	EPA 6010B	5.95	---	0.150	mg/l	1x	0.476	5.00	109%	(80-125)	--	--	11/24/08 14:32	
Calcium	"	93.4	---	0.750	"	"	86.3	"	142%	(70-137)	--	--	"	R3
Potassium	"	13.1	---	3.00	"	"	2.63	10.0	105%	(75-127)	--	--	"	
Aluminum	"	5.42	---	0.250	"	"	ND	5.00	108%	(80-137)	--	--	"	
Magnesium	"	53.2	---	0.500	"	"	47.1	"	122%	(76-129)	--	--	"	
Sodium	"	24.2	---	0.250	"	"	18.3	"	117%	(74-144)	--	--	"	
Post Spike (8K24009-PS1)										QC Source: BRK0270-01 Extracted: 11/24/08 09:24				
Iron	EPA 6010B	5.94	---		ug/ml	1x	0.476	5.00	109%	(75-125)	--	--	11/24/08 14:40	
Calcium	"	90.4	---		"	"	86.3	"	82.0%	"	--	--	"	
Potassium	"	13.0	---		"	"	2.63	10.0	104%	"	--	--	"	
Aluminum	"	5.40	---		"	"	-0.0130	5.00	108%	"	--	--	"	
Sodium	"	23.5	---		"	"	18.3	"	105%	"	--	--	"	
Magnesium	"	51.7	---		"	"	47.1	"	91.2%	"	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

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

TestAmerica Seattle

QC Batch: 8K24020

Water Preparation Method: EPA 3020A

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

Blank (8K24020-BLK1)

Extracted: 11/24/08 11:38

Barium	EPA 6020	ND	---	0.0100	mg/l	1x	--	--	--	--	--	--	11/28/08 08:45	
Selenium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Manganese	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Antimony	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	11/28/08 09:26	
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	11/28/08 08:45	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	12/01/08 10:52	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	11/28/08 08:45	
Beryllium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Vanadium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cobalt	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	

LCS (8K24020-BS1)

Extracted: 11/24/08 11:38

Cadmium	EPA 6020	0.0743	---	0.00100	mg/l	1x	--	0.0800	92.8%	(80-120)	--	--	11/28/08 08:57	
Copper	"	0.0773	---	0.00100	"	"	--	"	96.6%	"	--	--	"	
Zinc	"	0.0781	---	0.0100	"	"	--	"	97.6%	"	--	--	"	
Lead	"	0.0778	---	0.00100	"	"	--	"	97.3%	"	--	--	"	
Manganese	"	0.0783	---	0.0100	"	"	--	"	97.8%	"	--	--	"	
Thallium	"	0.0750	---	0.00100	"	"	--	"	93.7%	"	--	--	"	
Arsenic	"	0.0775	---	0.00100	"	"	--	"	96.9%	"	--	--	"	
Chromium	"	0.0776	---	0.00100	"	"	--	"	97.0%	"	--	--	"	
Selenium	"	0.0770	---	0.00100	"	"	--	"	96.2%	"	--	--	"	
Barium	"	0.0774	---	0.0100	"	"	--	"	96.8%	"	--	--	"	
Antimony	"	0.0577	---	0.00300	"	"	--	0.0600	96.2%	"	--	--	"	
Beryllium	"	0.0742	---	0.00100	"	"	--	0.0800	92.7%	"	--	--	"	
Cobalt	"	0.0770	---	0.00100	"	"	--	"	96.2%	"	--	--	"	
Silver	"	0.0772	---	0.00100	"	"	--	"	96.4%	"	--	--	12/01/08 11:04	
Vanadium	"	0.0786	---	0.00100	"	"	--	"	98.3%	"	--	--	11/28/08 08:57	
Nickel	"	0.0767	---	0.00100	"	"	--	"	95.8%	"	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

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

TestAmerica Seattle

QC Batch: 8K24020

Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8K24020-DUP1)			QC Source: BRK0270-01					Extracted: 11/24/08 11:38						
Manganese	EPA 6020	0.213	---	0.0100	mg/l	1x	0.217	--	--	--	1.58%	(20)	11/28/08 09:37	
Silver	"	ND	---	0.00100	"	"	ND	--	--	--	45.2%	"	12/01/08 11:38	R4
Arsenic	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	11/28/08 09:37	
Barium	"	0.252	---	0.0100	"	"	0.251	--	--	--	0.437%	"	"	
Beryllium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Cobalt	"	ND	---	0.00100	"	"	ND	--	--	--	"	"	"	
Zinc	"	ND	---	0.0100	"	"	ND	--	--	--	NR	"	"	
Copper	"	ND	---	0.00100	"	"	ND	--	--	--	14.4%	"	"	
Vanadium	"	ND	---	0.00100	"	"	ND	--	--	--	18.2%	"	"	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	49.0%	"	"	R4
Selenium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Thallium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Nickel	"	ND	---	0.00100	"	"	ND	--	--	--	3.12%	"	"	
Antimony	"	ND	---	0.00300	"	"	ND	--	--	--	"	"	"	
Chromium	"	ND	---	0.00100	"	"	ND	--	--	--	6.32%	"	"	

Matrix Spike (8K24020-MS1)

QC Source: BRK0270-01

Extracted: 11/24/08 11:38

Antimony	EPA 6020	0.0625	---	0.00300	mg/l	1x	ND	0.0600	104%	(75-125)	--	--	11/28/08 09:32	
Beryllium	"	0.0806	---	0.00100	"	"	ND	0.0800	101%	"	--	--	"	
Cobalt	"	0.0766	---	0.00100	"	"	ND	"	95.7%	"	--	--	"	
Vanadium	"	0.0828	---	0.00100	"	"	0.000250	"	103%	"	--	--	"	
Manganese	"	0.316	---	0.0100	"	"	0.217	"	125%	"	--	--	"	
Nickel	"	0.0747	---	0.00100	"	"	0.000630	"	92.5%	"	--	--	"	
Cadmium	"	0.0780	---	0.00100	"	"	ND	"	97.5%	"	--	--	"	
Lead	"	0.0808	---	0.00100	"	"	0.000540	"	100%	"	--	--	"	
Chromium	"	0.0800	---	0.00100	"	"	0.000460	"	99.5%	"	--	--	"	
Selenium	"	0.0806	---	0.00100	"	"	0.000440	"	100%	"	--	--	"	
Copper	"	0.0758	---	0.00100	"	"	0.000450	"	94.2%	"	--	--	"	
Zinc	"	0.0800	---	0.0100	"	"	ND	"	100%	"	--	--	"	
Barium	"	0.340	---	0.0100	"	"	0.251	"	110%	"	--	--	"	
Arsenic	"	0.0814	---	0.00100	"	"	ND	"	102%	"	--	--	"	
Thallium	"	0.0803	---	0.00100	"	"	ND	"	100%	"	--	--	"	
Silver	"	0.0768	---	0.00100	"	"	0.000240	"	95.8%	"	--	--	12/01/08 11:15	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

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

TestAmerica Seattle

QC Batch: 8K24020

Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (8K24020-PS1)			QC Source: BRK0270-01				Extracted: 11/24/08 11:38							
Barium	EPA 6020	0.353	---		ug/ml	1x	0.251	0.100	101%	(80-120)	--	--	11/28/08 09:03	
Arsenic	"	0.102	---		"	"	0.000200	0.0995	103%	"	--	--	"	
Cadmium	"	0.0990	---		"	"	-0.0000300	0.100	99.0%	"	--	--	"	
Silver	"	0.0914	---		"	"	0.000240	"	91.2%	"	--	--	12/01/08 11:09	
Cobalt	"	0.0934	---		"	"	0.0000700	"	93.4%	"	--	--	11/28/08 09:03	
Beryllium	"	0.0970	---		"	"	-0.0000300	0.0995	97.5%	"	--	--	"	
Zinc	"	0.0981	---		"	"	0.00171	0.100	95.9%	"	--	--	"	
Thallium	"	0.0983	---		"	"	-0.0000200	"	97.8%	"	--	--	"	
Lead	"	0.0986	---		"	"	0.000540	"	97.5%	"	--	--	"	
Chromium	"	0.0984	---		"	"	0.000460	"	97.5%	"	--	--	"	
Vanadium	"	0.100	---		"	"	0.000250	"	100%	"	--	--	"	
Selenium	"	0.0990	---		"	"	0.000440	"	98.6%	"	--	--	"	
Nickel	"	0.0912	---		"	"	0.000630	0.0995	91.0%	"	--	--	"	
Manganese	"	0.328	---		"	"	0.217	0.100	111%	"	--	--	"	
Copper	"	0.0927	---		"	"	0.000450	"	91.8%	"	--	--	"	
Antimony	"	0.0531	---		"	"	0.0000100	0.0510	104%	"	--	--	"	

QC Batch: 8K24052

Water Preparation Method: EPA 7470A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K24052-BLK1)			Extracted: 11/24/08 17:09											
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	11/25/08 13:59	
Blank (8K24052-BLK2)			Extracted: 11/24/08 17:09											
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	11/25/08 14:02	
LCS (8K24052-BS1)			Extracted: 11/24/08 17:09											
Mercury	EPA 7470A	0.00514	---	0.000200	mg/l	1x	--	0.00500	103%	(80-120)	--	--	11/25/08 14:04	
LCS Dup (8K24052-BSD1)			Extracted: 11/24/08 17:09											
Mercury	EPA 7470A	0.00515	---	0.000200	mg/l	1x	--	0.00500	103%	(80-120)	0.115% (20)	--	11/25/08 14:07	
Matrix Spike (8K24052-MS1)			QC Source: BRK0270-01				Extracted: 11/24/08 17:09							
Mercury	EPA 7470A	0.00522	---	0.000200	mg/l	1x	ND	0.00500	104%	(75-125)	--	--	11/25/08 14:09	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

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

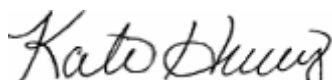
TestAmerica Seattle

QC Batch: 8K24052

Water Preparation Method: EPA 7470A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (8K24052-MS2)				QC Source: BRK0273-01				Extracted: 11/24/08 17:09						
Mercury	EPA 7470A	0.00511	---	0.000200	mg/l	1x		0.00500	102%	(75-125)	--	--	11/25/08 14:14	
Matrix Spike Dup (8K24052-MSD1)				QC Source: BRK0270-01				Extracted: 11/24/08 17:09						
Mercury	EPA 7470A	0.00524	---	0.000200	mg/l	1x	ND	0.00500	105%	(75-125)	0.502%	(20)	11/25/08 14:12	

TestAmerica Seattle



Kate Haney, 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:
 12/08/08 17:35

Organochlorine Pesticides by EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25012

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K25012-BLK1)										Extracted: 11/25/08 11:55				
Aldrin	EPA 8081A	ND	---	0.0500	ug/l	1x	--	--	--	--	--	--	12/02/08 11:02	
alpha-BHC	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
delta-BHC [2C]	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
4,4'-DDD	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
4,4'-DDE	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
4,4'-DDT	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	0.160	"	"	--	--	--	--	--	--	"	
Endrin ketone	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
Methoxychlor [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	

Surrogate(s): TCX

Recovery: 81.8%

Limits: 10-120% "

12/02/08 11:02

Decachlorobiphenyl [2C]

93.9%

10-142% "

"

LCS (8K25012-BS1)

Extracted: 11/25/08 11:55

Aldrin	EPA 8081A	0.124	---	0.0800	ug/l	1x	--	0.125	98.9%	(76-120)	--	--	12/02/08 11:19	
alpha-BHC	"	0.161	---	0.0400	"	"	--	"	129%	(55-150)	--	--	"	
beta-BHC	"	0.150	---	0.0400	"	"	--	"	120%	(76-120)	--	--	"	
delta-BHC [2C]	"	0.156	---	0.100	"	"	--	"	125%	(58-121)	--	--	"	L1
gamma-BHC (Lindane)	"	0.130	---	0.0400	"	"	--	"	104%	(70-120)	--	--	"	
alpha-Chlordane	"	0.134	---	0.0400	"	"	--	"	107%	(80-120)	--	--	"	
gamma-Chlordane	"	0.133	---	0.0400	"	"	--	"	106%	(76-120)	--	--	"	
4,4'-DDD	"	0.268	---	0.0400	"	"	--	0.250	107%	(75-120)	--	--	"	
4,4'-DDE	"	0.279	---	0.0800	"	"	--	"	112%	(70-122)	--	--	"	
4,4'-DDT	"	0.311	---	0.0800	"	"	--	"	124%	(52-130)	--	--	"	
Dieldrin	"	0.290	---	0.0800	"	"	--	"	116%	(80-120)	--	--	"	
Endosulfan I	"	0.154	---	0.0200	"	"	--	0.125	123%	(76-126)	--	--	"	
Endosulfan II	"	0.268	---	0.0800	"	"	--	0.250	107%	(71-126)	--	--	"	
Endosulfan sulfate	"	0.255	---	0.100	"	"	--	"	102%	(69-120)	--	--	"	
Endrin	"	0.140	---	0.0800	"	"	--	"	55.9%	(69-126)	--	--	"	L2

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

Organochlorine Pesticides by EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25012

Water Preparation Method: EPA 3520C

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

LCS (8K25012-BS1)

Extracted: 11/25/08 11:55

Endrin aldehyde	EPA 8081A	0.492	---	0.160	ug/l	1x	--	0.250	197%	(52-128)	--	--	12/02/08 11:19	L1
Endrin ketone	"	0.367	---	0.0800	"	"	--	"	147%	(16-150)	--	--	"	
Heptachlor	"	0.180	---	0.0800	"	"	--	0.125	144%	(62-141)	--	--	"	L1
Heptachlor epoxide	"	0.146	---	0.0400	"	"	--	"	117%	(80-120)	--	--	"	
Methoxychlor [2C]	"	1.24	---	0.500	"	"	--	1.25	99.2%	(70-123)	--	--	"	

Surrogate(s): TCX Recovery: 80.1% Limits: 10-120% " 12/02/08 11:19
Decachlorobiphenyl [2C] 98.8% 10-142% " "

LCS Dup (8K25012-BSD1)

Extracted: 11/25/08 11:55

Aldrin	EPA 8081A	0.112	---	0.0800	ug/l	1x	--	0.125	89.7%	(76-120)	9.76%	(20)	12/02/08 11:38	
alpha-BHC	"	0.147	---	0.0400	"	"	--	"	118%	(55-150)	8.73%	"	"	
beta-BHC	"	0.137	---	0.0400	"	"	--	"	110%	(76-120)	8.55%	"	"	
delta-BHC [2C]	"	0.138	---	0.100	"	"	--	"	111%	(58-121)	12.0%	"	"	
gamma-BHC (Lindane)	"	0.119	---	0.0400	"	"	--	"	95.0%	(70-120)	9.21%	"	"	
alpha-Chlordane	"	0.123	---	0.0400	"	"	--	"	98.1%	(80-120)	8.85%	"	"	
gamma-Chlordane	"	0.113	---	0.0400	"	"	--	"	90.5%	(76-120)	16.1%	"	"	
4,4'-DDD	"	0.260	---	0.0400	"	"	--	0.250	104%	(75-120)	3.33%	"	"	
4,4'-DDE	"	0.264	---	0.0800	"	"	--	"	106%	(70-122)	5.45%	"	"	
4,4'-DDT	"	0.311	---	0.0800	"	"	--	"	124%	(52-130)	0.154%	"	"	
Dieldrin	"	0.268	---	0.0800	"	"	--	"	107%	(80-120)	7.66%	"	"	
Endosulfan I	"	0.144	---	0.0200	"	"	--	0.125	115%	(76-126)	6.95%	"	"	
Endosulfan II	"	0.254	---	0.0800	"	"	--	0.250	101%	(71-126)	5.49%	"	"	
Endosulfan sulfate	"	0.253	---	0.100	"	"	--	"	101%	(69-120)	0.886%	"	"	
Endrin	"	0.0516	---	0.0800	"	"	--	"	20.6%	(69-126)	92.1%	(30)	"	L2, R2
Endrin aldehyde	"	0.460	---	0.160	"	"	--	"	184%	(52-128)	6.70%	"	"	L1
Endrin ketone	"	0.430	---	0.0800	"	"	--	"	172%	(16-150)	15.8%	(20)	"	L1
Heptachlor	"	0.159	---	0.0800	"	"	--	0.125	127%	(62-141)	12.4%	"	"	
Heptachlor epoxide	"	0.130	---	0.0400	"	"	--	"	104%	(80-120)	11.3%	"	"	
Methoxychlor [2C]	"	1.27	---	0.500	"	"	--	1.25	101%	(70-123)	2.29%	"	"	

Surrogate(s): TCX Recovery: 75.9% Limits: 10-120% " 12/02/08 11:38
Decachlorobiphenyl [2C] 90.0% 10-142% " "

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Organochlorine Pesticides by EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8L03015

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8L03015-BLK1)														Extracted: 12/03/08 12:34
Endrin [2C]	EPA 8081A	ND	---	0.0800	ug/l	1x	--	--	--	--	--	--	12/05/08 13:10	
Surrogate(s): TCX [2C]		Recovery:	74.7%	Limits: 10-120%		"								12/05/08 13:10
Decachlorobiphenyl [2C]			87.8%	10-142%		"								"
LCS (8L03015-BS1)														Extracted: 12/03/08 12:34
Endrin [2C]	EPA 8081A	0.227	---	0.0800	ug/l	1x	--	0.250	90.8%	(69-126)	--	--	12/05/08 13:29	
Surrogate(s): TCX [2C]		Recovery:	80.7%	Limits: 10-120%		"								12/05/08 13:29
Decachlorobiphenyl [2C]			91.8%	10-142%		"								"
LCS Dup (8L03015-BSD1)														Extracted: 12/03/08 12:34
Endrin [2C]	EPA 8081A	0.231	---	0.0800	ug/l	1x	--	0.250	92.6%	(69-126)	1.96%	(30)	12/05/08 13:47	
Surrogate(s): TCX [2C]		Recovery:	78.0%	Limits: 10-120%		"								12/05/08 13:47
Decachlorobiphenyl [2C]			90.6%	10-142%		"								"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25012

Water Preparation Method: EPA 3520C

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

Blank (8K25012-BLK2)

Extracted: 11/25/08 11:55

Aroclor 1016	EPA 8082	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	11/27/08 16:07	
Aroclor 1221	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1262	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1268	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	

Surrogate(s): TCX

Recovery: 89.6%

Limits: 36-134% "

11/27/08 16:07

Decachlorobiphenyl

98.4%

15-124% "

"

LCS (8K25012-BS2)

Extracted: 11/25/08 11:55

Aroclor 1016	EPA 8082	3.32	---	0.500	ug/l	1x	--	2.50	133%	(42-161)	--	--	11/27/08 16:24	
Aroclor 1260	"	2.95	---	0.500	"	"	--	"	118%	(68-142)	--	--	"	

Surrogate(s): TCX

Recovery: 76.6%

Limits: 36-134% "

11/27/08 16:24

Decachlorobiphenyl

89.2%

15-124% "

"

LCS Dup (8K25012-BSD2)

Extracted: 11/25/08 11:55

Aroclor 1016	EPA 8082	3.61	---	0.500	ug/l	1x	--	2.50	144%	(42-161)	8.14% (30)		11/27/08 16:40	
Aroclor 1260	"	3.35	---	0.500	"	"	--	"	134%	(68-142)	12.8% "		"	

Surrogate(s): TCX

Recovery: 75.4%

Limits: 36-134% "

11/27/08 16:40

Decachlorobiphenyl

95.1%

15-124% "

"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

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

TestAmerica Seattle

QC Batch: 8K28011

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K28011-BLK1)										Extracted: 11/28/08 11:03				
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	11/28/08 14:46	
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	"	0.200	---	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	"	"	--	--	--	--	--	--	"	

C

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

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

TestAmerica Seattle

QC Batch: 8K28011

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K28011-BLK1)										Extracted: 11/28/08 11:03				
Hexachlorobutadiene	EPA 8260B	ND	---	2.50	ug/l	1x	--	--	--	--	--	--	11/28/08 14:46	
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		Recovery: 119%		Limits: 76-138%		"							11/28/08 14:46	
Toluene-d8		107%		80-120%		"							"	
4-BFB		104%		80-120%		"							"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

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

TestAmerica Seattle

QC Batch: 8K28011

Water Preparation Method: EPA 5030B

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

LCS (8K28011-BS1)

Extracted: 11/28/08 11:03

Benzene	EPA 8260B	40.6	---	0.200	ug/l	1x	--	40.0	102%	(80-120)	--	--	11/28/08 12:39	
Chlorobenzene	"	36.6	---	0.200	"	"	--	"	91.5%	"	--	--	"	
1,1-Dichloroethene	"	38.0	---	0.200	"	"	--	"	95.1%	"	--	--	"	
Methyl tert-butyl ether	"	42.3	---	1.00	"	"	--	"	106%	"	--	--	"	
Toluene	"	36.3	---	0.200	"	"	--	"	90.8%	(75-125)	--	--	"	
Trichloroethene	"	38.1	---	0.200	"	"	--	"	95.2%	(80-120)	--	--	"	

Surrogate(s):	1,2-DCA-d4	Recovery:	107%	Limits:	76-138%	"	11/28/08 12:39
	Toluene-d8		98.0%		80-120%	"	"
	4-BFB		97.2%		80-120%	"	"

LCS Dup (8K28011-BSD1)

Extracted: 11/28/08 11:03

Benzene	EPA 8260B	40.6	---	0.200	ug/l	1x	--	40.0	102%	(80-120)	0.0246% (20)	11/28/08 13:07	
Chlorobenzene	"	37.4	---	0.200	"	"	--	"	93.6%	"	2.27%	"	"
1,1-Dichloroethene	"	36.8	---	0.200	"	"	--	"	91.9%	"	3.40%	"	"
Methyl tert-butyl ether	"	42.0	---	1.00	"	"	--	"	105%	"	0.593%	"	"
Toluene	"	36.4	---	0.200	"	"	--	"	91.0%	(75-125)	0.220%	"	"
Trichloroethene	"	37.3	---	0.200	"	"	--	"	93.2%	(80-120)	2.12%	"	"

Surrogate(s):	1,2-DCA-d4	Recovery:	108%	Limits:	76-138%	"	11/28/08 13:07
	Toluene-d8		99.8%		80-120%	"	"
	4-BFB		97.7%		80-120%	"	"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

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

TestAmerica Seattle

QC Batch: 8K28016

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K28016-BLK1)										Extracted: 11/26/08 13:53				
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	11/26/08 21:11	
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	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

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

TestAmerica Seattle

QC Batch: 8K28016

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K28016-BLK1)										Extracted: 11/26/08 13:53				
Hexachlorobutadiene	EPA 8260B	ND	---	2.50	ug/l	1x	--	--	--	--	--	--	11/26/08 21:11	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	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		Recovery: 106%		Limits: 76-138%		"							11/26/08 21:11	
Toluene-d8		101%		80-120%		"							"	
4-BFB		99.2%		80-120%		"							"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

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

TestAmerica Seattle

QC Batch: 8K28016

Water Preparation Method: EPA 5030B

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

LCS (8K28016-BS1)

Extracted: 11/26/08 13:53

Benzene	EPA 8260B	38.5	---	0.200	ug/l	1x	--	40.0	96.3%	(80-120)	--	--	11/26/08 19:13	
Chlorobenzene	"	35.1	---	0.200	"	"	--	"	87.8%	"	--	--	"	
1,1-Dichloroethene	"	34.4	---	0.200	"	"	--	"	85.9%	"	--	--	"	
Methyl tert-butyl ether	"	40.6	---	1.00	"	"	--	"	101%	"	--	--	"	
Toluene	"	35.3	---	0.200	"	"	--	"	88.3%	(75-125)	--	--	"	
Trichloroethene	"	34.9	---	0.200	"	"	--	"	87.3%	(80-120)	--	--	"	

Surrogate(s):	1,2-DCA-d4	Recovery:	101%	Limits:	76-138%	"	11/26/08 19:13
	Toluene-d8		99.6%		80-120%	"	"
	4-BFB		99.4%		80-120%	"	"

LCS Dup (8K28016-BSD1)

Extracted: 11/26/08 13:53

Benzene	EPA 8260B	40.5	---	0.200	ug/l	1x	--	40.0	101%	(80-120)	5.01% (20)	11/26/08 19:42	
Chlorobenzene	"	35.9	---	0.200	"	"	--	"	89.7%	"	2.11%	"	"
1,1-Dichloroethene	"	35.2	---	0.200	"	"	--	"	87.9%	"	2.30%	"	"
Methyl tert-butyl ether	"	40.5	---	1.00	"	"	--	"	101%	"	0.272%	"	"
Toluene	"	36.4	---	0.200	"	"	--	"	91.0%	(75-125)	3.01%	"	"
Trichloroethene	"	37.0	---	0.200	"	"	--	"	92.4%	(80-120)	5.65%	"	"

Surrogate(s):	1,2-DCA-d4	Recovery:	102%	Limits:	76-138%	"	11/26/08 19:42
	Toluene-d8		98.2%		80-120%	"	"
	4-BFB		101%		80-120%	"	"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

Semivolatile Organic Compounds by EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25013

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K25013-BLK1)										Extracted: 11/25/08 14:55				
Acenaphthene	EPA 8270C	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	12/01/08 10:08	
Acenaphthylene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Aniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzoic Acid	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Benzyl alcohol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Carbazole	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chloroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Methylphenol (o-Cresol)	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dibenzofuran	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3,3'-Dichlorobenzidine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/08/08 17:35

Semivolatile Organic Compounds by EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25013

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K25013-BLK1)										Extracted: 11/25/08 14:55				
2,4-Dinitrotoluene	EPA 8270C	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	12/01/08 10:08	
2,6-Dinitrotoluene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorocyclopentadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4,5-Trichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i>	<i>2-FBP</i>	<i>Recovery:</i>	<i>83.6%</i>	<i>Limits:</i>	<i>44-120%</i>	<i>"</i>	<i>12/01/08 10:08</i>
	<i>2-FP</i>		<i>74.2%</i>		<i>16-120%</i>	<i>"</i>	<i>"</i>
	<i>Nitrobenzene-d5</i>		<i>84.6%</i>		<i>38-120%</i>	<i>"</i>	<i>"</i>
	<i>Phenol-d6</i>		<i>75.0%</i>		<i>16-120%</i>	<i>"</i>	<i>"</i>
	<i>p-Terphenyl-d14</i>		<i>77.6%</i>		<i>24-146%</i>	<i>"</i>	<i>"</i>
	<i>2,4,6-TBP</i>		<i>77.2%</i>		<i>32-135%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/08/08 17:35

Semivolatile Organic Compounds by EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25013

Water Preparation Method: EPA 3520C

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

LCS (8K25013-BS1)

Extracted: 11/25/08 14:55

Acenaphthene	EPA 8270C	73.0	---	10.0	ug/l	1x	--	100	73.0%	(57-120)	--	--	12/01/08 10:33	
4-Chloro-3-methylphenol	"	88.1	---	10.0	"	"	--	"	88.1%	(51-124)	--	--	"	
2-Chlorophenol	"	71.2	---	10.0	"	"	--	"	71.2%	(40-120)	--	--	"	
1,4-Dichlorobenzene	"	63.1	---	10.0	"	"	--	"	63.1%	(50-120)	--	--	"	
2,4-Dinitrotoluene	"	88.2	---	10.0	"	"	--	"	88.2%	(66-130)	--	--	"	
4-Nitrophenol	"	71.5	---	10.0	"	"	--	"	71.5%	(42-148)	--	--	"	
N-Nitrosodi-n-propylamine	"	84.7	---	10.0	"	"	--	"	84.7%	(49-120)	--	--	"	
Pentachlorophenol	"	109	---	10.0	"	"	--	"	109%	(67-151)	--	--	"	
Phenol	"	73.1	---	10.0	"	"	--	"	73.1%	(28-120)	--	--	"	
Pyrene	"	72.0	---	10.0	"	"	--	"	72.0%	(54-134)	--	--	"	
1,2,4-Trichlorobenzene	"	73.9	---	10.0	"	"	--	"	73.9%	(52-120)	--	--	"	

Surrogate(s):	2-FBP	Recovery:	77.6%	Limits:	44-120%	"							12/01/08 10:33	
	2-FP		70.0%		16-120%	"							"	
	Nitrobenzene-d5		81.8%		38-120%	"							"	
	Phenol-d6		70.1%		16-120%	"							"	
	p-Terphenyl-d14		67.3%		24-146%	"							"	
	2,4,6-TBP		94.0%		32-135%	"							"	

LCS Dup (8K25013-BSD1)

Extracted: 11/25/08 14:55

Acenaphthene	EPA 8270C	73.0	---	10.0	ug/l	1x	--	100	73.0%	(57-120)	0.0274% (25)		12/01/08 13:12	
4-Chloro-3-methylphenol	"	95.5	---	10.0	"	"	--	"	95.5%	(51-124)	8.11%	"	"	
2-Chlorophenol	"	74.8	---	10.0	"	"	--	"	74.8%	(40-120)	4.96% (37)	"	"	
1,4-Dichlorobenzene	"	65.9	---	10.0	"	"	--	"	65.9%	(50-120)	4.34% (32)	"	"	
2,4-Dinitrotoluene	"	87.7	---	10.0	"	"	--	"	87.7%	(66-130)	0.546% (25)	"	"	
4-Nitrophenol	"	73.1	---	10.0	"	"	--	"	73.1%	(42-148)	2.13%	"	"	
N-Nitrosodi-n-propylamine	"	89.4	---	10.0	"	"	--	"	89.4%	(49-120)	5.42%	"	"	
Pentachlorophenol	"	110	---	10.0	"	"	--	"	110%	(67-151)	1.37%	"	"	
Phenol	"	78.3	---	10.0	"	"	--	"	78.3%	(28-120)	6.87% (48)	"	"	
Pyrene	"	74.5	---	10.0	"	"	--	"	74.5%	(54-134)	3.36% (25)	"	"	
1,2,4-Trichlorobenzene	"	77.8	---	10.0	"	"	--	"	77.8%	(52-120)	5.17%	"	"	

Surrogate(s):	2-FBP	Recovery:	77.6%	Limits:	44-120%	"							12/01/08 13:12	
	2-FP		76.8%		16-120%	"							"	
	Nitrobenzene-d5		87.5%		38-120%	"							"	
	Phenol-d6		75.7%		16-120%	"							"	
	p-Terphenyl-d14		70.2%		24-146%	"							"	
	2,4,6-TBP		95.4%		32-135%	"							"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/08/08 17:35

CERTIFICATION SUMMARY

TestAmerica Seattle

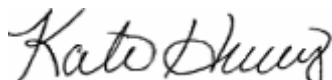
Method	Matrix	Nelac	Washington
EPA 6010B	Water	X	X
EPA 6020	Water	X	X
EPA 7470A	Water	X	X
EPA 8081A	Water	X	X
EPA 8082	Water	X	X
EPA 8260B	Water	X	X
EPA 8270C	Water	X	X
NWTPH-HCID	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, 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:
 12/08/08 17:35

Notes and Definitions

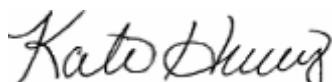
Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- H8 - The sample was extracted past the holding time.
- L - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- L1 - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
- L2 - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
- R2 - The RPD exceeded the acceptance limit.
- 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



Kate Haney, 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.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
11922 E. First Ave, Spokane, WA 99206-5302
9405 SW Nimbus Ave, Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
509-924-9200 FAX 924-9290
503-906-9200 FAX 906-9210
907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BRK0270**

CLIENT: Goldor Associates		INVOICE TO:		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.									
REPORT TO: Douglas Morell		P.O. NUMBER:											
ADDRESS: 15300 NE Union Hill Rd, Suite 200 Redmond WA 98052													
PHONE: 425-553-0777 FAX: 425-552-5498													
PROJECT NAME: Landsburg Mine		PRESERVATIVE											
PROJECT NUMBER: 923-1000-002-9273		REQUESTED ANALYSES											
SAMPLED BY: Jon Young													
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOCs	SVOCs	PCBs	Chlorinated Hydrocarbons	TPH	HCID	TAMC Total	TAMC Individual	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 LMW-5-1108	11/2/08 0855	X	X	X	X	X	X	X	X	W	11		-01
2 LMW-8-1108	1025	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		-02
3 LMW-3-1108	01130	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		-03
4 LMW-7-1108	01400	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		-04
5 Trip Blank		↓								↓	1		-05
6													
7													
8													
9													
10													

Hold all filtered unpreserved samples pending initial analytical results

RELEASED BY: Jon Young	FIRM: GAI	DATE: 11/2/08	TIME: 1540	RECEIVED BY: Kate Haney	FIRM:	DATE: 11/2/08	TIME: 1540
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY:	FIRM:	DATE:	TIME:
ADDITIONAL REMARKS:				TEMP: 10.8c W/O PAGE OF			

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:

(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: 302, 316, 399Date: 11/21/08Date: 11-21Date: 11/22/08Work Order No. BRKD270Time: 1540Time: 1832Time: 1145

Client: _____

Initials: WInitials: CWInitials: CS

Project: _____

Container Type:

COC Seals:

Packing Material _____:

☒ Cooler☐ Ship Container

Sign By _____

☒ Bubble Bags☐ Styrofoam☐ Box☐ On Bottles

Date _____

☐ Foam Packs☐ None/Other _____☒ None☒ None Other vac holder

Refrigerant:

☐ Gel Ice Pack _____☒ Loose Ice _____☐ None/Other _____

Received Via: Bill# _____

☐ Fed Ex ☒ Client☐ UPS ☐ TA Courier☐ DHL ☐ Mid Valley☐ Senvoy ☐ TDP☐ GS ☐ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? 10.8 °C or NA 10.42, 8.12Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact?

☒ Y or N

Metals Preserved?

☒ Y or N or NA

Provided by TA?

☒ Y or N

Client QAPP Preserved?

Y or N or NA

Correct Type?

Y or ☒ N

Adequate Volume?

☒ Y or N

#Containers match COC?

☒ Y or NWater VOAs: Headspace? Y or ☒ N or NA

IDs/time/date match COC?

☒ Y or ☒ N

Comments: _____

Hold Times in hold?

☒ Y or N

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

if Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

December 09, 2008

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

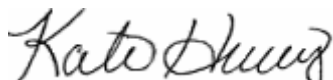
RE: Landsburg Mine

Enclosed are the results of analyses for samples received by the laboratory on 11/24/08 15:00.
The following list is a summary of the Work Orders contained in this report, generated on 12/09/08 09:51.

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

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRK0288	Landsburg Mine	923-1000-002-R273

TestAmerica Seattle



Kate Haney, 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

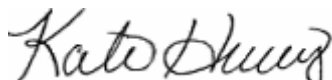
Report Created:

12/09/08 09:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-2-1108	BRK0288-01	Water	11/24/08 09:20	11/24/08 15:00
LMW-4-1108	BRK0288-02	Water	11/24/08 10:30	11/24/08 15:00
LMW-6-1108	BRK0288-03	Water	11/24/08 12:40	11/24/08 15:00
LMW-EB-1108	BRK0288-04	Water	11/24/08 11:00	11/24/08 15:00
Trip Blank	BRK0288-05	Water	11/24/08 15:00	11/24/08 15:00

TestAmerica Seattle



Kate Haney, 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:
12/09/08 09:51

Analytical Case Narrative

TestAmerica - Seattle, WA

BRK0288

SAMPLE RECEIPT

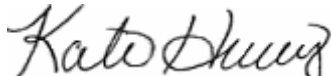
The samples were received November 21st, 2008 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 10.0 degrees Celsius which is outside the recommended temperature range of 2-6 Degrees Celsius. The samples are considered acceptable as they were recieved on-ice within four hours of the collection of the last sampled time on the COC.

PREPARATIONS AND ANALYSIS

8081 Pesticides: The samples were initially extracted in laboratory batch 8K25012. The percent recovery for Endrin was below the established acceptance criteria in the laboratory blank spike and blank spike duplicate. Additionally, the RPD for Endrin was above the established acceptance criteria in the blank spike duplicate. The samples were re-extracted outside the method established hold time in laboratory batch 8L03015 with passing Endrin recoveries. Both sets of results were reported.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 09:51

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-01 (LMW-2-1108)		Water		Sampled: 11/24/08 09:20						
Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.240	mg/l	1x	8K25014	11/25/08 11:56	11/26/08 18:24	
Diesel Range Hydrocarbons	"	ND	----	0.606	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.606	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			116%		50 - 150 %	"				"
<i>Octacosane</i>			93.1%		50 - 150 %	"				"
BRK0288-02 (LMW-4-1108)		Water		Sampled: 11/24/08 10:30						
Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.238	mg/l	1x	8K25014	11/25/08 11:56	11/26/08 18:46	
Diesel Range Hydrocarbons	"	ND	----	0.600	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.600	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			122%		50 - 150 %	"				"
<i>Octacosane</i>			97.1%		50 - 150 %	"				"
BRK0288-03 (LMW-6-1108)		Water		Sampled: 11/24/08 12:40						
Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.236	mg/l	1x	8K25014	11/25/08 11:56	11/26/08 19:07	
Diesel Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			117%		50 - 150 %	"				"
<i>Octacosane</i>			98.4%		50 - 150 %	"				"
BRK0288-04 (LMW-EB-1108)		Water		Sampled: 11/24/08 11:00						
Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.236	mg/l	1x	8K25014	11/25/08 11:56	11/26/08 20:14	
Diesel Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			120%		50 - 150 %	"				"
<i>Octacosane</i>			91.4%		50 - 150 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-01 (LMW-2-1108)		Water		Sampled: 11/24/08 09:20						
Aluminum	EPA 6010B	ND	----	0.200	mg/l	1x	8K25034	11/25/08 14:23	11/28/08 16:56	
Antimony	EPA 6020	ND	----	0.00300	"	"	8K25033	11/25/08 14:20	11/28/08 12:09	
Arsenic	"	ND	----	0.00100	"	"	"	"	"	
Barium	"	0.313	----	0.0100	"	"	"	"	"	
Beryllium	"	ND	----	0.00100	"	"	"	"	"	
Cadmium	"	ND	----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	120	----	0.750	"	"	8K25034	11/25/08 14:23	11/28/08 16:56	
Chromium	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	11/28/08 12:09	
Cobalt	"	ND	----	0.00100	"	"	"	"	"	
Copper	"	ND	----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	0.160	----	0.150	"	"	8K25034	11/25/08 14:23	11/28/08 16:56	
Lead	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	12/04/08 18:31	
Magnesium	EPA 6010B	71.6	----	0.500	"	"	8K25034	11/25/08 14:23	11/26/08 08:47	
Manganese	EPA 6020	0.220	----	0.0100	"	"	8K25033	11/25/08 14:20	11/28/08 12:09	
Mercury	EPA 7470A	ND	----	0.000200	"	"	8K25009	11/25/08 11:02	11/26/08 10:01	
Nickel	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	11/28/08 12:09	
Potassium	EPA 6010B	3.99	----	3.00	"	"	8K25034	11/25/08 14:23	11/26/08 08:47	
Selenium	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	11/28/08 12:09	
Silver	"	ND	----	0.00100	"	"	"	"	12/01/08 12:30	
Sodium	EPA 6010B	25.7	----	0.250	"	"	8K25034	11/25/08 14:23	11/26/08 08:47	
Thallium	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	12/04/08 18:31	
Vanadium	"	ND	----	0.00100	"	"	"	"	11/28/08 12:09	
Zinc	"	ND	----	0.0100	"	"	"	"	"	
BRK0288-02 (LMW-4-1108)		Water		Sampled: 11/24/08 10:30						
Aluminum	EPA 6010B	ND	----	0.200	mg/l	1x	8K25034	11/25/08 14:23	11/28/08 17:00	
Antimony	EPA 6020	ND	----	0.00300	"	"	8K25033	11/25/08 14:20	11/28/08 12:15	
Arsenic	"	ND	----	0.00100	"	"	"	"	"	
Barium	"	0.341	----	0.0100	"	"	"	"	"	
Beryllium	"	ND	----	0.00100	"	"	"	"	"	
Cadmium	"	ND	----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	116	----	0.750	"	"	8K25034	11/25/08 14:23	11/28/08 17:00	
Chromium	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	11/28/08 12:15	
Cobalt	"	ND	----	0.00100	"	"	"	"	"	
Copper	"	ND	----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	0.968	----	0.150	"	"	8K25034	11/25/08 14:23	11/28/08 17:00	
Lead	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	12/04/08 18:37	
Magnesium	EPA 6010B	68.2	----	0.500	"	"	8K25034	11/25/08 14:23	11/26/08 08:51	
Manganese	EPA 6020	0.179	----	0.0100	"	"	8K25033	11/25/08 14:20	11/28/08 12:15	
Mercury	EPA 7470A	ND	----	0.000200	"	"	8K25009	11/25/08 11:02	11/26/08 10:04	
Nickel	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	11/28/08 12:15	
Potassium	EPA 6010B	3.83	----	3.00	"	"	8K25034	11/25/08 14:23	11/26/08 08:51	

TestAmerica Seattle

Kate Haney

Kate Haney, 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.



Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

BRK0288-03	(LMW-6-1108)	Water			Sampled: 11/24/08 12:40				
Aluminum	EPA 6010B	ND	----	0.200	mg/l	1x	8K25034	11/25/08 14:23	11/28/08 17:05
Antimony	EPA 6020	ND	----	0.00300	"	"	8K25033	11/25/08 14:20	11/28/08 12:20
Arsenic	"	ND	----	0.00100	"	"	"	"	"
Barium	"	0.104	----	0.0100	"	"	"	"	"
Beryllium	"	ND	----	0.00100	"	"	"	"	"
Cadmium	"	ND	----	0.00100	"	"	"	"	"
Calcium	EPA 6010B	26.8	----	0.750	"	"	8K25034	11/25/08 14:23	11/28/08 17:05
Chromium	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	11/28/08 12:20
Cobalt	"	ND	----	0.00100	"	"	"	"	"
Copper	"	ND	----	0.00100	"	"	"	"	"
Iron	EPA 6010B	2.28	----	0.150	"	"	8K25034	11/25/08 14:23	11/28/08 17:05
Lead	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	12/04/08 18:43
Magnesium	EPA 6010B	10.8	----	0.500	"	"	8K25034	11/25/08 14:23	11/26/08 08:55
Manganese	EPA 6020	0.0313	----	0.0100	"	"	8K25033	11/25/08 14:20	11/28/08 12:20
Mercury	EPA 7470A	ND	----	0.000200	"	"	8K25009	11/25/08 11:02	11/26/08 10:06
Nickel	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	11/28/08 12:20
Potassium	EPA 6010B	ND	----	3.00	"	"	8K25034	11/25/08 14:23	11/26/08 08:55
Selenium	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	11/28/08 12:20
Silver	"	0.00132	----	0.00100	"	"	"	"	12/01/08 13:46
Sodium	EPA 6010B	7.69	----	0.250	"	"	8K25034	11/25/08 14:23	11/26/08 08:55
Thallium	EPA 6020	ND	----	0.00100	"	"	8K25033	11/25/08 14:20	12/04/08 18:43
Vanadium	"	ND	----	0.00100	"	"	"	"	11/28/08 12:20
Zinc	"	0.0122	----	0.0100	"	"	"	"	"

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.

Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

TestAmerica Seattle

Kate Haney, 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:
12/09/08 09:51

Organochlorine Pesticides by EPA Method 8081A
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-01 (LMW-2-1108)		Water					Sampled: 11/24/08 09:20			
Aldrin	EPA 8081A	ND	----	0.0476	ug/l	1x	8K25012	11/25/08 11:55	12/02/08 14:57	
alpha-BHC	"	ND	----	0.0381	"	"	"	"	"	
beta-BHC	"	ND	----	0.0381	"	"	"	"	"	
delta-BHC [2C]	"	ND	----	0.0476	"	"	"	"	"	L
gamma-BHC (Lindane)	"	ND	----	0.0381	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0762	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0762	"	"	"	"	"	
Dieldrin	"	ND	----	0.0762	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0190	"	"	"	"	"	
Endosulfan II	"	ND	----	0.0762	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	0.0952	"	"	"	"	"	
Endrin	"	ND	----	0.0762	"	"	"	"	"	L2
Endrin aldehyde	"	ND	----	0.152	"	"	"	"	"	L
Endrin ketone	"	ND	----	0.0762	"	"	"	"	"	L
Heptachlor	"	ND	----	0.0476	"	"	"	"	"	L
Heptachlor epoxide	"	ND	----	0.0381	"	"	"	"	"	
Methoxychlor [2C]	"	ND	----	0.476	"	"	"	"	"	

Surrogate(s): TCX 75.5% 10 - 120 % "

Decachlorobiphenyl [2C] 76.5% 10 - 142 % "

BRK0288-01RE1 (LMW-2-1108)		Water					Sampled: 11/24/08 09:20			H8
Endrin [2C]	EPA 8081A	ND	----	0.0769	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 15:22	
Surrogate(s): TCX [2C]				78.1%			10 - 120 %		"	
Decachlorobiphenyl [2C]				81.4%			10 - 142 %		"	

BRK0288-02 (LMW-4-1108)		Water					Sampled: 11/24/08 10:30			
Aldrin	EPA 8081A	ND	----	0.0476	ug/l	1x	8K25012	11/25/08 11:55	12/02/08 15:16	
alpha-BHC	"	ND	----	0.0381	"	"	"	"	"	
beta-BHC	"	ND	----	0.0381	"	"	"	"	"	
delta-BHC [2C]	"	ND	----	0.0476	"	"	"	"	"	L
gamma-BHC (Lindane)	"	ND	----	0.0381	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0762	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0762	"	"	"	"	"	
Dieldrin	"	ND	----	0.0762	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0190	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 09:51

Organochlorine Pesticides by EPA Method 8081A
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-02 (LMW-4-1108)		Water		Sampled: 11/24/08 10:30						
Endosulfan II	EPA 8081A	ND	----	0.0762	ug/l	1x	8K25012	11/25/08 11:55	12/02/08 15:16	
Endosulfan sulfate	"	ND	----	0.0952	"	"	"	"	"	
Endrin	"	ND	----	0.0762	"	"	"	"	"	L2
Endrin aldehyde	"	ND	----	0.152	"	"	"	"	"	L
Endrin ketone	"	ND	----	0.0762	"	"	"	"	"	L
Heptachlor	"	ND	----	0.0476	"	"	"	"	"	L
Heptachlor epoxide	"	ND	----	0.0381	"	"	"	"	"	
Methoxychlor [2C]	"	ND	----	0.476	"	"	"	"	"	
<i>Surrogate(s): TCX</i>			66.5%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			74.9%		10 - 142 %	"			"	
BRK0288-02RE1 (LMW-4-1108)		Water		Sampled: 11/24/08 10:30						
Endrin [2C]	EPA 8081A	ND	----	0.0762	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 15:40	H8
<i>Surrogate(s): TCX [2C]</i>			76.8%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			45.7%		10 - 142 %	"			"	
BRK0288-03 (LMW-6-1108)		Water		Sampled: 11/24/08 12:40						
Aldrin	EPA 8081A	ND	----	0.0476	ug/l	1x	8K25012	11/25/08 11:55	12/02/08 15:36	
alpha-BHC	"	ND	----	0.0381	"	"	"	"	"	
beta-BHC	"	ND	----	0.0381	"	"	"	"	"	
delta-BHC [2C]	"	ND	----	0.0476	"	"	"	"	"	L
gamma-BHC (Lindane)	"	ND	----	0.0381	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0762	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0762	"	"	"	"	"	
Dieldrin	"	ND	----	0.0762	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0190	"	"	"	"	"	
Endosulfan II	"	ND	----	0.0762	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	0.0952	"	"	"	"	"	
Endrin	"	ND	----	0.0762	"	"	"	"	"	L2
Endrin aldehyde	"	ND	----	0.152	"	"	"	"	"	L
Endrin ketone	"	ND	----	0.0762	"	"	"	"	"	L
Heptachlor	"	ND	----	0.0476	"	"	"	"	"	L
Heptachlor epoxide	"	ND	----	0.0381	"	"	"	"	"	
Methoxychlor [2C]	"	ND	----	0.476	"	"	"	"	"	
<i>Surrogate(s): TCX</i>			81.1%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			75.1%		10 - 142 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/09/08 09:51

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-03RE1 (LMW-6-1108)		Water		Sampled: 11/24/08 12:40						H8
Endrin [2C]	EPA 8081A	ND	----	0.0755	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 15:58	
<i>Surrogate(s): TCX [2C]</i>			80.2%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			77.1%		10 - 142 %	"			"	
BRK0288-04 (LMW-EB-1108)		Water		Sampled: 11/24/08 11:00						
Aldrin	EPA 8081A	ND	----	0.0476	ug/l	1x	8K25012	11/25/08 11:55	12/02/08 15:54	
alpha-BHC	"	ND	----	0.0381	"	"	"	"	"	
beta-BHC	"	ND	----	0.0381	"	"	"	"	"	
delta-BHC [2C]	"	ND	----	0.0476	"	"	"	"	"	L
gamma-BHC (Lindane)	"	ND	----	0.0381	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0762	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0762	"	"	"	"	"	
Dieldrin	"	ND	----	0.0762	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0190	"	"	"	"	"	
Endosulfan II	"	ND	----	0.0762	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	0.0952	"	"	"	"	"	
Endrin	"	ND	----	0.0762	"	"	"	"	"	L2
Endrin aldehyde	"	ND	----	0.152	"	"	"	"	"	L
Endrin ketone	"	ND	----	0.0762	"	"	"	"	"	L
Heptachlor	"	ND	----	0.0476	"	"	"	"	"	L
Heptachlor epoxide	"	ND	----	0.0381	"	"	"	"	"	
Methoxychlor [2C]	"	ND	----	0.476	"	"	"	"	"	
<i>Surrogate(s): TCX</i>			80.9%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			71.9%		10 - 142 %	"			"	
BRK0288-04RE1 (LMW-EB-1108)		Water		Sampled: 11/24/08 11:00						H8
Endrin [2C]	EPA 8081A	ND	----	0.0755	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 16:16	
<i>Surrogate(s): TCX [2C]</i>			78.2%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			69.6%		10 - 142 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Polychlorinated Biphenyls by EPA Method 8082
 TestAmerica Seattle

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

BRK0288-01 (LMW-2-1108)

Water

Sampled: 11/24/08 09:20

Aroclor 1016	EPA 8082	ND	----	0.476	ug/l	1x	8K25012	11/25/08 11:55	11/27/08 18:00	
Aroclor 1221	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.476	"	"	"	"	"	

Surrogate(s): TCX 82.7% 36 - 134 % "

Decachlorobiphenyl 79.8% 15 - 124 % "

BRK0288-02 (LMW-4-1108)

Water

Sampled: 11/24/08 10:30

Aroclor 1016	EPA 8082	ND	----	0.476	ug/l	1x	8K25012	11/25/08 11:55	11/27/08 18:16	
Aroclor 1221	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.476	"	"	"	"	"	

Surrogate(s): TCX 95.8% 36 - 134 % "

Decachlorobiphenyl 69.0% 15 - 124 % "

BRK0288-03 (LMW-6-1108)

Water

Sampled: 11/24/08 12:40

Aroclor 1016	EPA 8082	ND	----	0.476	ug/l	1x	8K25012	11/25/08 11:55	11/27/08 18:32	
Aroclor 1221	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.476	"	"	"	"	"	

Surrogate(s): TCX 83.4% 36 - 134 % "

Decachlorobiphenyl 68.1% 15 - 124 % "

TestAmerica Seattle

Kate Haney

Kate Haney, 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

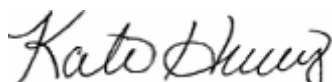
Project Name: **Landsburg Mine**
 Project Number: 923-1000-002-R273
 Project Manager: Douglas Morell

Report Created:
 12/09/08 09:51

Polychlorinated Biphenyls by EPA Method 8082
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-04 (LMW-EB-1108)		Water					Sampled: 11/24/08 11:00			
Aroclor 1016	EPA 8082	ND	----	0.476	ug/l	1x	8K25012	11/25/08 11:55	11/27/08 18:48	
Aroclor 1221	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.476	"	"	"	"	"	
<i>Surrogate(s): TCX</i>				81.0%		36 - 134 %	"			"
<i>Decachlorobiphenyl</i>				70.2%		15 - 124 %	"			"

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 09:51

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-01 (LMW-2-1108)		Water					Sampled: 11/24/08 09:20			
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 16:23	
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

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

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

BRK0288-01 (LMW-2-1108)

Water

Sampled: 11/24/08 09:20

Isopropylbenzene	EPA 8260B	ND	----	0.500	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 16:23	
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	"	"	"	"	"	
1,1,2,2-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	110%	76 - 138 %	"	"
	Toluene-d8	95.6%	80 - 120 %	"	"
	4-BFB	100%	80 - 120 %	"	"

BRK0288-02 (LMW-4-1108)

Water

Sampled: 11/24/08 10:30

Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 16:52	
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

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-02 (LMW-4-1108)		Water		Sampled: 11/24/08 10:30						
Chlorobenzene	EPA 8260B	ND	----	0.200	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 16:52	
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	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	----	0.200	"	"	"	"	"	
Toluene	"	ND	----	0.200	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/09/08 09:51

Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-02 (LMW-4-1108)		Water		Sampled: 11/24/08 10:30						
1,1,1-Trichloroethane	EPA 8260B	ND	----	0.200	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 16:52	
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>			<i>113%</i>		<i>76 - 138 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>97.4%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>98.0%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>	

BRK0288-03 (LMW-6-1108)		Water		Sampled: 11/24/08 12:40						
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 17:21	
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

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-03 (LMW-6-1108)		Water		Sampled: 11/24/08 12:40						
Dichlorodifluoromethane	EPA 8260B	ND	----	0.500	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 17:21	
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	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4		116%		76 - 138 %		"		"		

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 09:51

Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-03 (LMW-6-1108)		Water					Sampled: 11/24/08 12:40			
<i>Toluene-d8</i>		95.6%		80 - 120 %	1x				11/28/08 17:21	
<i>4-BFB</i>		97.8%		80 - 120 %	"				"	
BRK0288-04 (LMW-EB-1108)		Water					Sampled: 11/24/08 11:00			
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 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	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	0.360	----	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	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-04 (LMW-EB-1108)		Water		Sampled: 11/24/08 11:00						
Ethylbenzene	EPA 8260B	ND	----	0.200	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 17:50	
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	"	0.520	----	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>		<i>114%</i>		<i>76 - 138 %</i>		<i>"</i>		<i>"</i>		
<i>Toluene-d8</i>		<i>97.6%</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

Kate Haney

Kate Haney, 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:
12/09/08 09:51

Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-05 (Trip Blank)										
		Water					Sampled: 11/24/08 15:00			
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 18:18	
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	"	"	"	"	"	
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

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-05 (Trip Blank)		Water		Sampled: 11/24/08 15:00						
Isopropylbenzene	EPA 8260B	ND	----	0.500	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 18:18	
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>			117%		76 - 138 %	"				"
<i>Toluene-d8</i>			97.2%		80 - 120 %	"				"
<i>4-BFB</i>			95.6%		80 - 120 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, 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

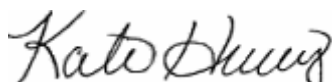
Project Name: **Landsburg Mine**
 Project Number: 923-1000-002-R273
 Project Manager: Douglas Morell

Report Created:
 12/09/08 09:51

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-01 (LMW-2-1108)		Water		Sampled: 11/24/08 09:20						
Acenaphthene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 15:16	
Acenaphthylene	"	ND	----	9.43	"	"	"	"	"	
Aniline	"	ND	----	9.43	"	"	"	"	"	
Anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.43	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.43	"	"	"	"	"	
Benzoic Acid	"	ND	----	18.9	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.43	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Carbazole	"	ND	----	9.43	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.43	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.43	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.43	"	"	"	"	"	
Chrysene	"	ND	----	9.43	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.43	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.43	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.43	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.43	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.43	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	18.9	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.43	"	"	"	"	"	
Fluoranthene	"	ND	----	9.43	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 09:51

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-01 (LMW-2-1108)		Water		Sampled: 11/24/08 09:20						
Fluorene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 15:16	
Hexachlorobenzene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.43	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.43	"	"	"	"	"	
Isophorone	"	ND	----	9.43	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
Naphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.43	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.43	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.43	"	"	"	"	"	
Phenanthrene	"	ND	----	9.43	"	"	"	"	"	
Phenol	"	ND	----	9.43	"	"	"	"	"	
Pyrene	"	ND	----	9.43	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			78.7%		44 - 120 %	"			"	
<i>2-FP</i>			69.2%		16 - 120 %	"			"	
<i>Nitrobenzene-d5</i>			78.2%		38 - 120 %	"			"	
<i>Phenol-d6</i>			68.9%		16 - 120 %	"			"	
<i>p-Terphenyl-d14</i>			65.3%		24 - 146 %	"			"	
<i>2,4,6-TBP</i>			73.8%		32 - 135 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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

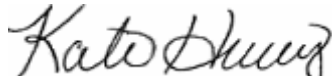
Project Name: **Landsburg Mine**
 Project Number: 923-1000-002-R273
 Project Manager: Douglas Morell

Report Created:
 12/09/08 09:51

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-02 (LMW-4-1108)		Water		Sampled: 11/24/08 10:30						
Acenaphthene	EPA 8270C	ND	----	9.52	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 15:40	
Acenaphthylene	"	ND	----	9.52	"	"	"	"	"	
Aniline	"	ND	----	9.52	"	"	"	"	"	
Anthracene	"	ND	----	9.52	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.52	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.52	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.52	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.52	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.52	"	"	"	"	"	
Benzoic Acid	"	ND	----	19.0	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.52	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.52	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.52	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.52	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.52	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.52	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.52	"	"	"	"	"	
Carbazole	"	ND	----	9.52	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.52	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.52	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.52	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.52	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.52	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.52	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.52	"	"	"	"	"	
Chrysene	"	ND	----	9.52	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.52	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.52	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.52	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.52	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.52	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.52	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.52	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.52	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.52	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	19.0	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.52	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.52	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.52	"	"	"	"	"	
Fluoranthene	"	ND	----	9.52	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 09:51

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-02 (LMW-4-1108)		Water					Sampled: 11/24/08 10:30			
Fluorene	EPA 8270C	ND	----	9.52	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 15:40	
Hexachlorobenzene	"	ND	----	9.52	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.52	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.52	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.52	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.52	"	"	"	"	"	
Isophorone	"	ND	----	9.52	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.52	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.52	"	"	"	"	"	
Naphthalene	"	ND	----	9.52	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.52	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.52	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.52	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.52	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.52	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.52	"	"	"	"	"	
Phenanthrene	"	ND	----	9.52	"	"	"	"	"	
Phenol	"	ND	----	9.52	"	"	"	"	"	
Pyrene	"	ND	----	9.52	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.52	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.52	"	"	"	"	"	
Surrogate(s): 2-FBP		74.5%		44 - 120 %	"				"	
2-FP		64.7%		16 - 120 %	"				"	
Nitrobenzene-d5		73.3%		38 - 120 %	"				"	
Phenol-d6		64.1%		16 - 120 %	"				"	
p-Terphenyl-d14		59.1%		24 - 146 %	"				"	
2,4,6-TBP		70.0%		32 - 135 %	"				"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/09/08 09:51

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-03 (LMW-6-1108)		Water		Sampled: 11/24/08 12:40						
Acenaphthene	EPA 8270C	ND	----	9.52	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 16:05	
Acenaphthylene	"	ND	----	9.52	"	"	"	"	"	
Aniline	"	ND	----	9.52	"	"	"	"	"	
Anthracene	"	ND	----	9.52	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.52	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.52	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.52	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.52	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.52	"	"	"	"	"	
Benzoic Acid	"	ND	----	19.0	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.52	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.52	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.52	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.52	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.52	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.52	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.52	"	"	"	"	"	
Carbazole	"	ND	----	9.52	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.52	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.52	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.52	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.52	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.52	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.52	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.52	"	"	"	"	"	
Chrysene	"	ND	----	9.52	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.52	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.52	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.52	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.52	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.52	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.52	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.52	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.52	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.52	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	19.0	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.52	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.52	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.52	"	"	"	"	"	
Fluoranthene	"	ND	----	9.52	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-03 (LMW-6-1108)		Water		Sampled: 11/24/08 12:40						
Fluorene	EPA 8270C	ND	----	9.52	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 16:05	
Hexachlorobenzene	"	ND	----	9.52	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.52	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.52	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.52	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.52	"	"	"	"	"	
Isophorone	"	ND	----	9.52	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.52	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.52	"	"	"	"	"	
Naphthalene	"	ND	----	9.52	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.52	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.52	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.52	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.52	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.52	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.52	"	"	"	"	"	
Phenanthrene	"	ND	----	9.52	"	"	"	"	"	
Phenol	"	ND	----	9.52	"	"	"	"	"	
Pyrene	"	ND	----	9.52	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.52	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.52	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			77.0%		44 - 120 %	"				"
<i>2-FP</i>			66.3%		16 - 120 %	"				"
<i>Nitrobenzene-d5</i>			74.5%		38 - 120 %	"				"
<i>Phenol-d6</i>			64.8%		16 - 120 %	"				"
<i>p-Terphenyl-d14</i>			64.7%		24 - 146 %	"				"
<i>2,4,6-TBP</i>			49.3%		32 - 135 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/09/08 09:51

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-04 (LMW-EB-1108)		Water		Sampled: 11/24/08 11:00						
Acenaphthene	EPA 8270C	ND	----	9.52	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 16:30	
Acenaphthylene	"	ND	----	9.52	"	"	"	"	"	
Aniline	"	ND	----	9.52	"	"	"	"	"	
Anthracene	"	ND	----	9.52	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.52	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.52	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.52	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.52	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.52	"	"	"	"	"	
Benzoic Acid	"	ND	----	19.0	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.52	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.52	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.52	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.52	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.52	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.52	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.52	"	"	"	"	"	
Carbazole	"	ND	----	9.52	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.52	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.52	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.52	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.52	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.52	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.52	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.52	"	"	"	"	"	
Chrysene	"	ND	----	9.52	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.52	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.52	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.52	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.52	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.52	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.52	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.52	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.52	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.52	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	19.0	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.52	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.52	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.52	"	"	"	"	"	
Fluoranthene	"	ND	----	9.52	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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

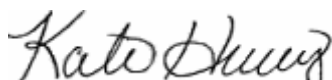
Project Name: **Landsburg Mine**
 Project Number: 923-1000-002-R273
 Project Manager: Douglas Morell

Report Created:
 12/09/08 09:51

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0288-04 (LMW-EB-1108)		Water		Sampled: 11/24/08 11:00						
Fluorene	EPA 8270C	ND	----	9.52	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 16:30	
Hexachlorobenzene	"	ND	----	9.52	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.52	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.52	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.52	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.52	"	"	"	"	"	
Isophorone	"	ND	----	9.52	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.52	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.52	"	"	"	"	"	
Naphthalene	"	ND	----	9.52	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.52	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.52	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.52	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.52	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.52	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.52	"	"	"	"	"	
Phenanthrene	"	ND	----	9.52	"	"	"	"	"	
Phenol	"	ND	----	9.52	"	"	"	"	"	
Pyrene	"	ND	----	9.52	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.52	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.52	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.52	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			71.0%		44 - 120 %	"				"
<i>2-FP</i>			61.2%		16 - 120 %	"				"
<i>Nitrobenzene-d5</i>			71.1%		38 - 120 %	"				"
<i>Phenol-d6</i>			60.7%		16 - 120 %	"				"
<i>p-Terphenyl-d14</i>			58.7%		24 - 146 %	"				"
<i>2,4,6-TBP</i>			50.8%		32 - 135 %	"				"

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 09:51

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

TestAmerica Seattle

QC Batch: 8K25014

Water Preparation Method: EPA 3520C

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

Blank (8K25014-BLK1)

Extracted: 11/25/08 11:56

Gx Range Hydrocarbons	NWTPH-HCI	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	11/26/08 15:50	
	D													
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
 Octacosane

Recovery: 118%
 92.0%

Limits: 50-150%
 50-150%

11/26/08 15:50
 "

LCS (8K25014-BS1)

Extracted: 11/25/08 11:56

Diesel Range Hydrocarbons	NWTPH-HCI	DET	---	0.630	mg/l	1x	--	2.00	83.8%	(58-125)	--	--	11/26/08 16:12	
	D													
Lube Oil Range Hydrocarbons	"	DET	---	0.630	"	"	--	"	89.7%	(60-140)	--	--	"	

Surrogate(s): 2-FBP
 Octacosane

Recovery: 116%
 91.4%

Limits: 50-150%
 50-150%

11/26/08 16:12
 "

LCS Dup (8K25014-BSD1)

Extracted: 11/25/08 11:56

Diesel Range Hydrocarbons	NWTPH-HCI	DET	---	0.630	mg/l	1x	--	2.00	89.2%	(58-125)	6.18%	(40)	11/26/08 16:34	
	D													
Lube Oil Range Hydrocarbons	"	DET	---	0.630	"	"	--	"	92.2%	(60-140)	2.77%	"	"	

Surrogate(s): 2-FBP
 Octacosane

Recovery: 131%
 94.7%

Limits: 50-150%
 50-150%

11/26/08 16:34
 "

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 09:51

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

TestAmerica Seattle

QC Batch: 8K25009

Water Preparation Method: EPA 7470A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K25009-BLK1)										Extracted: 11/25/08 11:02				
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	11/26/08 09:44	
Blank (8K25009-BLK2)										Extracted: 11/25/08 11:02				
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	11/26/08 09:46	
LCS (8K25009-BS1)										Extracted: 11/25/08 11:02				
Mercury	EPA 7470A	0.00492	---	0.000200	mg/l	1x	--	0.00500	98.4%	(80-120)	--	--	11/26/08 09:49	
LCS Dup (8K25009-BSD1)										Extracted: 11/25/08 11:02				
Mercury	EPA 7470A	0.00501	---	0.000200	mg/l	1x	--	0.00500	100%	(80-120)	1.92%	(20)	11/26/08 09:51	
Matrix Spike (8K25009-MS1)				QC Source: BRK0288-01				Extracted: 11/25/08 11:02						
Mercury	EPA 7470A	0.00483	---	0.000200	mg/l	1x	ND	0.00500	96.6%	(75-125)	--	--	11/26/08 09:54	
Matrix Spike (8K25009-MS2)				QC Source: BRK0273-01				Extracted: 11/25/08 11:02						
Mercury	EPA 7470A	0.00521	---	0.000200	mg/l	1x		0.00500	104%	(75-125)	--	--	11/26/08 09:59	
Matrix Spike Dup (8K25009-MSD1)				QC Source: BRK0288-01				Extracted: 11/25/08 11:02						
Mercury	EPA 7470A	0.00500	---	0.000200	mg/l	1x	ND	0.00500	99.9%	(75-125)	3.43%	(20)	11/26/08 09:56	

QC Batch: 8K25033

Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K25033-BLK1)										Extracted: 11/25/08 14:20				
Selenium	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	11/28/08 10:35	
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Cobalt	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	12/04/08 17:50	
Vanadium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	11/28/08 10:35	
Manganese	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Antimony	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	12/01/08 12:19	
Thallium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	12/04/08 17:50	
Copper	"	ND	---	0.00100	"	"	--	--	--	--	--	--	11/28/08 10:35	
Nickel	"	ND	---	0.00100	"	"	--	--	--	--	--	--	12/01/08 12:19	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	11/28/08 10:35	
Beryllium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 09:51

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

TestAmerica Seattle

QC Batch: 8K25033

Water Preparation Method: EPA 3020A

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

Blank (8K25033-BLK1)

Extracted: 11/25/08 14:20

Chromium	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	11/28/08 10:35	
Barium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

LCS (8K25033-BS1)

Extracted: 11/25/08 14:20

Cadmium	EPA 6020	0.0732	---	0.00100	mg/l	1x	--	0.0800	91.5%	(80-120)	--	--	11/28/08 11:11	
Cobalt	"	0.0754	---	0.00100	"	"	--	"	94.3%	"	--	--	"	
Zinc	"	0.0781	---	0.0100	"	"	--	"	97.6%	"	--	--	"	
Silver	"	0.0820	---	0.00100	"	"	--	"	102%	"	--	--	12/01/08 13:28	
Barium	"	0.0754	---	0.0100	"	"	--	"	94.2%	"	--	--	11/28/08 11:11	
Arsenic	"	0.0763	---	0.00100	"	"	--	"	95.4%	"	--	--	"	
Beryllium	"	0.0748	---	0.00100	"	"	--	"	93.5%	"	--	--	"	
Manganese	"	0.0758	---	0.0100	"	"	--	"	94.7%	"	--	--	"	
Copper	"	0.0768	---	0.00100	"	"	--	"	96.0%	"	--	--	"	
Chromium	"	0.0756	---	0.00100	"	"	--	"	94.5%	"	--	--	"	
Thallium	"	0.0827	---	0.00100	"	"	--	"	103%	"	--	--	12/04/08 18:14	
Lead	"	0.0813	---	0.00100	"	"	--	"	102%	"	--	--	"	
Antimony	"	0.0564	---	0.00300	"	"	--	0.0600	94.0%	"	--	--	11/28/08 11:11	
Selenium	"	0.0761	---	0.00100	"	"	--	0.0800	95.2%	"	--	--	"	
Vanadium	"	0.0754	---	0.00100	"	"	--	"	94.2%	"	--	--	"	
Nickel	"	0.0753	---	0.00100	"	"	--	"	94.1%	"	--	--	"	

Duplicate (8K25033-DUP1)

QC Source: BRK0288-01

Extracted: 11/25/08 14:20

Antimony	EPA 6020	ND	---	0.00300	mg/l	1x	ND	--	--	--	(20)		11/28/08 11:28	
Thallium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	12/04/08 18:25	
Copper	"	ND	---	0.00100	"	"	ND	--	--	--	14.4%	"	11/28/08 11:28	
Nickel	"	ND	---	0.00100	"	"	ND	--	--	--	11.9%	"	"	
Chromium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Beryllium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Silver	"	0.00207	---	0.00100	"	"	ND	--	--	--	"		12/01/08 13:34	
Selenium	"	ND	---	0.00100	"	"	ND	--	--	--	11.2%	"	11/28/08 11:28	
Manganese	"	0.219	---	0.0100	"	"	0.220	--	--	--	0.774%	"	"	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	12/04/08 18:25	
Barium	"	0.311	---	0.0100	"	"	0.313	--	--	--	0.706%	"	11/28/08 11:28	
Zinc	"	ND	---	0.0100	"	"	ND	--	--	--	NR	"	"	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Vanadium	"	ND	---	0.00100	"	"	ND	--	--	--	"	"	"	
Cobalt	"	ND	---	0.00100	"	"	ND	--	--	--	"	"	"	
Arsenic	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 09:51

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

TestAmerica Seattle

QC Batch: 8K25033

Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (8K25033-MS1)			QC Source: BRK0288-01					Extracted: 11/25/08 14:20						
Chromium	EPA 6020	0.0763	---	0.00100	mg/l	1x	ND	0.0800	95.4%	(75-125)	--	--	11/28/08 11:22	
Zinc	"	0.0783	---	0.0100	"	"	ND	"	97.9%	"	--	--	"	
Cobalt	"	0.0738	---	0.00100	"	"	ND	"	92.3%	"	--	--	"	
Vanadium	"	0.0786	---	0.00100	"	"	ND	"	98.2%	"	--	--	"	
Copper	"	0.0735	---	0.00100	"	"	0.000580	"	91.2%	"	--	--	"	
Cadmium	"	0.0768	---	0.00100	"	"	ND	"	96.0%	"	--	--	"	
Nickel	"	0.0728	---	0.00100	"	"	0.000790	"	90.1%	"	--	--	"	
Arsenic	"	0.0783	---	0.00100	"	"	ND	"	97.9%	"	--	--	"	
Antimony	"	0.0606	---	0.00300	"	"	ND	0.0600	101%	"	--	--	"	
Thallium	"	0.0787	---	0.00100	"	"	ND	0.0800	98.3%	"	--	--	12/04/08 18:19	
Lead	"	0.0767	---	0.00100	"	"	ND	"	95.9%	"	--	--	"	
Manganese	"	0.292	---	0.0100	"	"	0.220	"	89.9%	"	--	--	11/28/08 11:22	
Silver	"	0.0747	---	0.00100	"	"	ND	"	93.4%	"	--	--	12/01/08 13:23	
Beryllium	"	0.0762	---	0.00100	"	"	ND	"	95.3%	"	--	--	11/28/08 11:22	
Selenium	"	0.0665	---	0.00100	"	"	0.000660	"	82.3%	"	--	--	"	
Matrix Spike (8K25033-MS2)			QC Source: BRK0288-01					Extracted: 11/25/08 14:20						
Barium	EPA 6020	0.388	---	0.0200	mg/l	2x	0.313	0.0800	93.9%	(75-125)	--	--	11/28/08 12:55	
Post Spike (8K25033-PS1)			QC Source: BRK0288-01					Extracted: 11/25/08 14:20						
Silver	EPA 6020	0.0902	---		ug/ml	1x	0.000140	0.100	90.0%	(80-120)	--	--	12/01/08 13:17	
Cadmium	"	0.0962	---		"	"	-0.0000500	"	96.2%	"	--	--	11/28/08 11:17	
Lead	"	0.0973	---		"	"	-0.00106	"	97.9%	"	--	--	"	
Manganese	"	0.315	---		"	"	0.220	"	94.2%	"	--	--	"	
Zinc	"	0.0988	---		"	"	0.00299	"	95.4%	"	--	--	"	
Chromium	"	0.0977	---		"	"	0.0000100	"	97.2%	"	--	--	"	
Antimony	"	0.0523	---		"	"	0.0000100	0.0510	102%	"	--	--	"	
Beryllium	"	0.0949	---		"	"	-0.0000400	0.0995	95.5%	"	--	--	"	
Thallium	"	0.0976	---		"	"	-0.0000200	0.100	97.1%	"	--	--	"	
Nickel	"	0.0915	---		"	"	0.000790	0.0995	91.1%	"	--	--	"	
Copper	"	0.0919	---		"	"	0.000580	0.100	90.9%	"	--	--	"	
Arsenic	"	0.102	---		"	"	0.0000600	0.0995	103%	"	--	--	"	
Vanadium	"	0.100	---		"	"	0.000130	0.100	99.9%	"	--	--	"	
Selenium	"	0.0987	---		"	"	0.000660	"	98.0%	"	--	--	"	
Cobalt	"	0.0939	---		"	"	0.0000600	"	93.8%	"	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 09:51

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

TestAmerica Seattle

QC Batch: 8K25033

Water Preparation Method: EPA 3020A

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

Post Spike (8K25033-PS2)

QC Source: BRK0288-01

Extracted: 11/25/08 14:20

Barium	EPA 6020	0.411	---		ug/ml	10x	0.313	0.100	98.1%	(80-120)	--	--	11/28/08 12:49	
--------	----------	-------	-----	--	-------	-----	-------	-------	-------	----------	----	----	----------------	--

QC Batch: 8K25034

Water Preparation Method: EPA 3010A

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

Blank (8K25034-BLK1)

Extracted: 11/25/08 14:23

Calcium	EPA 6010B	ND	---	0.750	mg/l	1x	--	--	--	--	--	--	11/28/08 16:36	
Aluminum	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Iron	"	ND	---	0.150	"	"	--	--	--	--	--	--	"	
Sodium	"	ND	---	0.250	"	"	--	--	--	--	--	--	11/26/08 08:14	
Potassium	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Magnesium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	

LCS (8K25034-BS1)

Extracted: 11/25/08 14:23

Aluminum	EPA 6010B	5.48	---	0.250	mg/l	1x	--	5.00	110%	(80-120)	--	--	11/28/08 16:40	
Sodium	"	5.06	---	0.250	"	"	--	"	101%	"	--	--	11/26/08 08:19	
Potassium	"	9.44	---	3.00	"	"	--	10.0	94.4%	"	--	--	"	
Calcium	"	4.59	---	0.750	"	"	--	5.00	91.7%	"	--	--	11/28/08 16:40	
Iron	"	5.37	---	0.150	"	"	--	"	107%	"	--	--	"	
Magnesium	"	4.34	---	0.500	"	"	--	"	86.8%	"	--	--	11/26/08 08:19	

Duplicate (8K25034-DUP1)

QC Source: BRK0288-01

Extracted: 11/25/08 14:23

Sodium	EPA 6010B	24.6	---	0.250	mg/l	1x	25.7	--	--	--	4.14%	(30)	11/26/08 08:26	
Aluminum	"	ND	---	0.250	"	"	ND	--	--	--	NR	(25)	11/28/08 16:48	
Magnesium	"	75.0	---	0.500	"	"	71.6	--	--	--	4.69%	(30)	11/26/08 08:26	
Potassium	"	3.90	---	3.00	"	"	3.99	--	--	--	2.13%	"	"	
Iron	"	0.175	---	0.150	"	"	0.160	--	--	--	9.43%	"	11/28/08 16:48	
Calcium	"	124	---	0.750	"	"	120	--	--	--	3.21%	(25)	"	

Matrix Spike (8K25034-MS1)

QC Source: BRK0288-01

Extracted: 11/25/08 14:23

Aluminum	EPA 6010B	5.60	---	0.250	mg/l	1x	ND	5.00	112%	(80-137)	--	--	11/28/08 16:44	
Potassium	"	13.8	---	3.00	"	"	3.99	10.0	98.6%	(75-127)	--	--	11/26/08 08:22	
Calcium	"	123	---	0.750	"	"	120	5.00	68.0%	(70-137)	--	--	11/28/08 16:44	MHA
Sodium	"	28.8	---	0.250	"	"	25.7	"	62.0%	(74-144)	--	--	11/26/08 08:22	MHA
Iron	"	5.43	---	0.150	"	"	0.160	"	105%	(80-125)	--	--	11/28/08 16:44	
Magnesium	"	76.1	---	0.500	"	"	71.6	"	91.4%	(76-129)	--	--	11/26/08 08:22	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

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

TestAmerica Seattle

QC Batch: 8K25034

Water Preparation Method: EPA 3010A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (8K25034-PS1)			QC Source: BRK0288-01					Extracted: 11/25/08 14:23						
Aluminum	EPA 6010B	5.59	---		ug/ml	1x	-0.0330	5.00	113%	(75-125)	--	--	11/28/08 16:52	
Sodium	"	28.9	---		"	"	25.7	"	64.4%	"	--	--	11/26/08 08:43	S3
Iron	"	5.43	---		"	"	0.160	"	105%	"	--	--	11/28/08 16:52	
Magnesium	"	76.0	---		"	"	71.6	"	88.0%	"	--	--	11/26/08 08:43	
Calcium	"	120	---		"	"	120	"	8.00%	"	--	--	11/28/08 16:52	S3
Potassium	"	14.2	---		"	"	3.99	10.0	102%	"	--	--	11/26/08 08:43	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Organochlorine Pesticides by EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25012

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K25012-BLK1)										Extracted: 11/25/08 11:55				
Aldrin	EPA 8081A	ND	---	0.0500	ug/l	1x	--	--	--	--	--	--	12/02/08 11:02	
alpha-BHC	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
delta-BHC [2C]	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
4,4'-DDD	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
4,4'-DDE	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
4,4'-DDT	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	0.160	"	"	--	--	--	--	--	--	"	
Endrin ketone	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
Methoxychlor [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	

Surrogate(s): TCX

Recovery: 81.8%

Limits: 10-120% "

12/02/08 11:02

Decachlorobiphenyl [2C]

93.9%

10-142% "

"

LCS (8K25012-BS1)

Extracted: 11/25/08 11:55

Aldrin	EPA 8081A	0.124	---	0.0800	ug/l	1x	--	0.125	98.9%	(76-120)	--	--	12/02/08 11:19	
alpha-BHC	"	0.161	---	0.0400	"	"	--	"	129%	(55-150)	--	--	"	
beta-BHC	"	0.150	---	0.0400	"	"	--	"	120%	(76-120)	--	--	"	
delta-BHC [2C]	"	0.156	---	0.100	"	"	--	"	125%	(58-121)	--	--	"	L1
gamma-BHC (Lindane)	"	0.130	---	0.0400	"	"	--	"	104%	(70-120)	--	--	"	
alpha-Chlordane	"	0.134	---	0.0400	"	"	--	"	107%	(80-120)	--	--	"	
gamma-Chlordane	"	0.133	---	0.0400	"	"	--	"	106%	(76-120)	--	--	"	
4,4'-DDD	"	0.268	---	0.0400	"	"	--	0.250	107%	(75-120)	--	--	"	
4,4'-DDE	"	0.279	---	0.0800	"	"	--	"	112%	(70-122)	--	--	"	
4,4'-DDT	"	0.311	---	0.0800	"	"	--	"	124%	(52-130)	--	--	"	
Dieldrin	"	0.290	---	0.0800	"	"	--	"	116%	(80-120)	--	--	"	
Endosulfan I	"	0.154	---	0.0200	"	"	--	0.125	123%	(76-126)	--	--	"	
Endosulfan II	"	0.268	---	0.0800	"	"	--	0.250	107%	(71-126)	--	--	"	
Endosulfan sulfate	"	0.255	---	0.100	"	"	--	"	102%	(69-120)	--	--	"	
Endrin	"	0.140	---	0.0800	"	"	--	"	55.9%	(69-126)	--	--	"	L2

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 09:51

Organochlorine Pesticides by EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25012

Water Preparation Method: EPA 3520C

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

LCS (8K25012-BS1)

Extracted: 11/25/08 11:55

Endrin aldehyde	EPA 8081A	0.492	---	0.160	ug/l	1x	--	0.250	197%	(52-128)	--	--	12/02/08 11:19	L1
Endrin ketone	"	0.367	---	0.0800	"	"	--	"	147%	(16-150)	--	--	"	
Heptachlor	"	0.180	---	0.0800	"	"	--	0.125	144%	(62-141)	--	--	"	L1
Heptachlor epoxide	"	0.146	---	0.0400	"	"	--	"	117%	(80-120)	--	--	"	
Methoxychlor [2C]	"	1.24	---	0.500	"	"	--	1.25	99.2%	(70-123)	--	--	"	

Surrogate(s): TCX Recovery: 80.1% Limits: 10-120% " 12/02/08 11:19
Decachlorobiphenyl [2C] 98.8% 10-142% " "

LCS Dup (8K25012-BSD1)

Extracted: 11/25/08 11:55

Aldrin	EPA 8081A	0.112	---	0.0800	ug/l	1x	--	0.125	89.7%	(76-120)	9.76%	(20)	12/02/08 11:38	
alpha-BHC	"	0.147	---	0.0400	"	"	--	"	118%	(55-150)	8.73%	"	"	
beta-BHC	"	0.137	---	0.0400	"	"	--	"	110%	(76-120)	8.55%	"	"	
delta-BHC [2C]	"	0.138	---	0.100	"	"	--	"	111%	(58-121)	12.0%	"	"	
gamma-BHC (Lindane)	"	0.119	---	0.0400	"	"	--	"	95.0%	(70-120)	9.21%	"	"	
alpha-Chlordane	"	0.123	---	0.0400	"	"	--	"	98.1%	(80-120)	8.85%	"	"	
gamma-Chlordane	"	0.113	---	0.0400	"	"	--	"	90.5%	(76-120)	16.1%	"	"	
4,4'-DDD	"	0.260	---	0.0400	"	"	--	0.250	104%	(75-120)	3.33%	"	"	
4,4'-DDE	"	0.264	---	0.0800	"	"	--	"	106%	(70-122)	5.45%	"	"	
4,4'-DDT	"	0.311	---	0.0800	"	"	--	"	124%	(52-130)	0.154%	"	"	
Dieldrin	"	0.268	---	0.0800	"	"	--	"	107%	(80-120)	7.66%	"	"	
Endosulfan I	"	0.144	---	0.0200	"	"	--	0.125	115%	(76-126)	6.95%	"	"	
Endosulfan II	"	0.254	---	0.0800	"	"	--	0.250	101%	(71-126)	5.49%	"	"	
Endosulfan sulfate	"	0.253	---	0.100	"	"	--	"	101%	(69-120)	0.886%	"	"	
Endrin	"	0.0516	---	0.0800	"	"	--	"	20.6%	(69-126)	92.1%	(30)	"	L2, R2
Endrin aldehyde	"	0.460	---	0.160	"	"	--	"	184%	(52-128)	6.70%	"	"	L1
Endrin ketone	"	0.430	---	0.0800	"	"	--	"	172%	(16-150)	15.8%	(20)	"	L1
Heptachlor	"	0.159	---	0.0800	"	"	--	0.125	127%	(62-141)	12.4%	"	"	
Heptachlor epoxide	"	0.130	---	0.0400	"	"	--	"	104%	(80-120)	11.3%	"	"	
Methoxychlor [2C]	"	1.27	---	0.500	"	"	--	1.25	101%	(70-123)	2.29%	"	"	

Surrogate(s): TCX Recovery: 75.9% Limits: 10-120% " 12/02/08 11:38
Decachlorobiphenyl [2C] 90.0% 10-142% " "

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Organochlorine Pesticides by EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8L03015

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8L03015-BLK1)										Extracted: 12/03/08 12:34				
Endrin [2C]	EPA 8081A	ND	---	0.0800	ug/l	1x	--	--	--	--	--	--	12/05/08 13:10	
Surrogate(s):	TCX [2C]	Recovery:	74.7%	Limits: 10-120%		"								12/05/08 13:10
	Decachlorobiphenyl [2C]		87.8%	10-142%		"								"
LCS (8L03015-BS1)										Extracted: 12/03/08 12:34				
Endrin [2C]	EPA 8081A	0.227	---	0.0800	ug/l	1x	--	0.250	90.8%	(69-126)	--	--	12/05/08 13:29	
Surrogate(s):	TCX [2C]	Recovery:	80.7%	Limits: 10-120%		"								12/05/08 13:29
	Decachlorobiphenyl [2C]		91.8%	10-142%		"								"
LCS Dup (8L03015-BSD1)										Extracted: 12/03/08 12:34				
Endrin [2C]	EPA 8081A	0.231	---	0.0800	ug/l	1x	--	0.250	92.6%	(69-126)	1.96%	(30)	12/05/08 13:47	
Surrogate(s):	TCX [2C]	Recovery:	78.0%	Limits: 10-120%		"								12/05/08 13:47
	Decachlorobiphenyl [2C]		90.6%	10-142%		"								"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25012

Water Preparation Method: EPA 3520C

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

Blank (8K25012-BLK2)

Extracted: 11/25/08 11:55

Aroclor 1016	EPA 8082	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	11/27/08 16:07	
Aroclor 1221	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1262	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1268	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
<hr/>														
<i>Surrogate(s): TCX</i>		<i>Recovery: 89.6%</i>		<i>Limits: 36-134%</i>		<i>"</i>						<i>11/27/08 16:07</i>		
<i>Decachlorobiphenyl</i>		<i>98.4%</i>		<i>15-124%</i>		<i>"</i>						<i>"</i>		

LCS (8K25012-BS2)

Extracted: 11/25/08 11:55

Aroclor 1016	EPA 8082	3.32	---	0.500	ug/l	1x	--	2.50	133%	(42-161)	--	--	11/27/08 16:24	
Aroclor 1260	"	2.95	---	0.500	"	"	--	"	118%	(68-142)	--	--	"	
<hr/>														
<i>Surrogate(s): TCX</i>		<i>Recovery: 76.6%</i>		<i>Limits: 36-134%</i>		<i>"</i>						<i>11/27/08 16:24</i>		
<i>Decachlorobiphenyl</i>		<i>89.2%</i>		<i>15-124%</i>		<i>"</i>						<i>"</i>		

LCS Dup (8K25012-BSD2)

Extracted: 11/25/08 11:55

Aroclor 1016	EPA 8082	3.61	---	0.500	ug/l	1x	--	2.50	144%	(42-161)	8.14% (30)		11/27/08 16:40	
Aroclor 1260	"	3.35	---	0.500	"	"	--	"	134%	(68-142)	12.8% "		"	
<hr/>														
<i>Surrogate(s): TCX</i>		<i>Recovery: 75.4%</i>		<i>Limits: 36-134%</i>		<i>"</i>						<i>11/27/08 16:40</i>		
<i>Decachlorobiphenyl</i>		<i>95.1%</i>		<i>15-124%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 09:51

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

TestAmerica Seattle

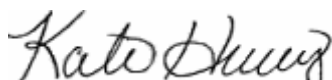
QC Batch: 8K28011

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K28011-BLK1)										Extracted: 11/28/08 11:03				
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	11/28/08 14:46	
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	"	0.200	---	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	"	"	--	--	--	--	--	--	"	

C

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 09:51

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

TestAmerica Seattle

QC Batch: 8K28011

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K28011-BLK1)										Extracted: 11/28/08 11:03				
Hexachlorobutadiene	EPA 8260B	ND	---	2.50	ug/l	1x	--	--	--	--	--	--	11/28/08 14:46	
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		Recovery: 119%		Limits: 76-138%		"							11/28/08 14:46	
Toluene-d8		107%		80-120%		"							"	
4-BFB		104%		80-120%		"							"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 09:51

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

TestAmerica Seattle

QC Batch: 8K28011

Water Preparation Method: EPA 5030B

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

LCS (8K28011-BS1)

Extracted: 11/28/08 11:03

Benzene	EPA 8260B	40.6	---	0.200	ug/l	1x	--	40.0	102%	(80-120)	--	--	11/28/08 12:39	
Chlorobenzene	"	36.6	---	0.200	"	"	--	"	91.5%	"	--	--	"	
1,1-Dichloroethene	"	38.0	---	0.200	"	"	--	"	95.1%	"	--	--	"	
Methyl tert-butyl ether	"	42.3	---	1.00	"	"	--	"	106%	"	--	--	"	
Toluene	"	36.3	---	0.200	"	"	--	"	90.8%	(75-125)	--	--	"	
Trichloroethene	"	38.1	---	0.200	"	"	--	"	95.2%	(80-120)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 107% Limits: 76-138% "</i>														
<i>Toluene-d8 98.0% 80-120% "</i>														
<i>4-BFB 97.2% 80-120% "</i>														

LCS Dup (8K28011-BS1)

Extracted: 11/28/08 11:03

Benzene	EPA 8260B	40.6	---	0.200	ug/l	1x	--	40.0	102%	(80-120)	0.0246% (20)		11/28/08 13:07	
Chlorobenzene	"	37.4	---	0.200	"	"	--	"	93.6%	"	2.27%	"	"	
1,1-Dichloroethene	"	36.8	---	0.200	"	"	--	"	91.9%	"	3.40%	"	"	
Methyl tert-butyl ether	"	42.0	---	1.00	"	"	--	"	105%	"	0.593%	"	"	
Toluene	"	36.4	---	0.200	"	"	--	"	91.0%	(75-125)	0.220%	"	"	
Trichloroethene	"	37.3	---	0.200	"	"	--	"	93.2%	(80-120)	2.12%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 108% Limits: 76-138% "</i>														
<i>Toluene-d8 99.8% 80-120% "</i>														
<i>4-BFB 97.7% 80-120% "</i>														

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 09:51

Semivolatile Organic Compounds by EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25013

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K25013-BLK1)										Extracted: 11/25/08 14:55				
Acenaphthene	EPA 8270C	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	12/01/08 10:08	
Acenaphthylene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Aniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzoic Acid	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Benzyl alcohol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Carbazole	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chloroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Methylphenol (o-Cresol)	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dibenzofuran	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3,3'-Dichlorobenzidine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 09:51

Semivolatile Organic Compounds by EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25013

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K25013-BLK1)										Extracted: 11/25/08 14:55				
2,4-Dinitrotoluene	EPA 8270C	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	12/01/08 10:08	
2,6-Dinitrotoluene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorocyclopentadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4,5-Trichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	

Surrogate(s):	2-FBP	Recovery:	83.6%	Limits:	44-120%	"	12/01/08 10:08
	2-FP		74.2%		16-120%	"	"
	Nitrobenzene-d5		84.6%		38-120%	"	"
	Phenol-d6		75.0%		16-120%	"	"
	p-Terphenyl-d14		77.6%		24-146%	"	"
	2,4,6-TBP		77.2%		32-135%	"	"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 09:51

Semivolatile Organic Compounds by EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25013

Water Preparation Method: EPA 3520C

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

LCS (8K25013-BS1)

Extracted: 11/25/08 14:55

Acenaphthene	EPA 8270C	73.0	---	10.0	ug/l	1x	--	100	73.0%	(57-120)	--	--	12/01/08 10:33	
4-Chloro-3-methylphenol	"	88.1	---	10.0	"	"	--	"	88.1%	(51-124)	--	--	"	
2-Chlorophenol	"	71.2	---	10.0	"	"	--	"	71.2%	(40-120)	--	--	"	
1,4-Dichlorobenzene	"	63.1	---	10.0	"	"	--	"	63.1%	(50-120)	--	--	"	
2,4-Dinitrotoluene	"	88.2	---	10.0	"	"	--	"	88.2%	(66-130)	--	--	"	
4-Nitrophenol	"	71.5	---	10.0	"	"	--	"	71.5%	(42-148)	--	--	"	
N-Nitrosodi-n-propylamine	"	84.7	---	10.0	"	"	--	"	84.7%	(49-120)	--	--	"	
Pentachlorophenol	"	109	---	10.0	"	"	--	"	109%	(67-151)	--	--	"	
Phenol	"	73.1	---	10.0	"	"	--	"	73.1%	(28-120)	--	--	"	
Pyrene	"	72.0	---	10.0	"	"	--	"	72.0%	(54-134)	--	--	"	
1,2,4-Trichlorobenzene	"	73.9	---	10.0	"	"	--	"	73.9%	(52-120)	--	--	"	

Surrogate(s):	2-FBP	Recovery:	77.6%	Limits:	44-120%	"							12/01/08 10:33	
	2-FP		70.0%		16-120%	"							"	
	Nitrobenzene-d5		81.8%		38-120%	"							"	
	Phenol-d6		70.1%		16-120%	"							"	
	p-Terphenyl-d14		67.3%		24-146%	"							"	
	2,4,6-TBP		94.0%		32-135%	"							"	

LCS Dup (8K25013-BSD1)

Extracted: 11/25/08 14:55

Acenaphthene	EPA 8270C	73.0	---	10.0	ug/l	1x	--	100	73.0%	(57-120)	0.0274% (25)		12/01/08 13:12	
4-Chloro-3-methylphenol	"	95.5	---	10.0	"	"	--	"	95.5%	(51-124)	8.11%	"	"	
2-Chlorophenol	"	74.8	---	10.0	"	"	--	"	74.8%	(40-120)	4.96% (37)	"	"	
1,4-Dichlorobenzene	"	65.9	---	10.0	"	"	--	"	65.9%	(50-120)	4.34% (32)	"	"	
2,4-Dinitrotoluene	"	87.7	---	10.0	"	"	--	"	87.7%	(66-130)	0.546% (25)	"	"	
4-Nitrophenol	"	73.1	---	10.0	"	"	--	"	73.1%	(42-148)	2.13%	"	"	
N-Nitrosodi-n-propylamine	"	89.4	---	10.0	"	"	--	"	89.4%	(49-120)	5.42%	"	"	
Pentachlorophenol	"	110	---	10.0	"	"	--	"	110%	(67-151)	1.37%	"	"	
Phenol	"	78.3	---	10.0	"	"	--	"	78.3%	(28-120)	6.87% (48)	"	"	
Pyrene	"	74.5	---	10.0	"	"	--	"	74.5%	(54-134)	3.36% (25)	"	"	
1,2,4-Trichlorobenzene	"	77.8	---	10.0	"	"	--	"	77.8%	(52-120)	5.17%	"	"	

Surrogate(s):	2-FBP	Recovery:	77.6%	Limits:	44-120%	"							12/01/08 13:12	
	2-FP		76.8%		16-120%	"							"	
	Nitrobenzene-d5		87.5%		38-120%	"							"	
	Phenol-d6		75.7%		16-120%	"							"	
	p-Terphenyl-d14		70.2%		24-146%	"							"	
	2,4,6-TBP		95.4%		32-135%	"							"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/09/08 09:51

CERTIFICATION SUMMARY

TestAmerica Seattle

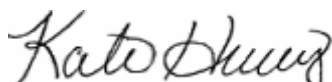
Method	Matrix	Nelac	Washington
EPA 6010B	Water	X	X
EPA 6020	Water	X	X
EPA 7470A	Water	X	X
EPA 8081A	Water	X	X
EPA 8082	Water	X	X
EPA 8260B	Water	X	X
EPA 8270C	Water	X	X
NWTPH-HCID	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, 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:
12/09/08 09:51

Notes and Definitions

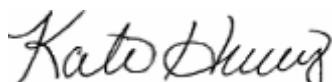
Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- H8 - The sample was extracted past the holding time.
- L - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- L1 - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
- L2 - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- R2 - The RPD exceeded the acceptance limit.
- 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



Kate Haney, 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.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
11922 E. First Ave, Spokane, WA 99206-5302
9405 SW Nimbus Ave, Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
509-924-9200 FAX 924-9290
503-906-9200 FAX 906-9210
907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

BRK0288

CLIENT: <u>Elder Associates</u>		INVOICE TO:		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD.													
REPORT TO: <u>Douglas Morell</u>		P.O. NUMBER:															
ADDRESS: <u>18300 NE Union Hill Rd, Suite 200</u> <u>Redmond WA 98053</u>																	
PHONE: <u>425-883-0777</u> FAX: <u>425-882-5496</u>																	
PROJECT NAME: <u>Landsburg Mine</u>		PRESERVATIVE															
PROJECT NUMBER: <u>923-1000-002-R273</u>		HCl HNO ₃															
SAMPLED BY: <u>Ian Young</u>		REQUESTED ANALYSES															
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOCs	SVOCs	PCBs	Chloro Pesticides	TPH	HCID	TAML total	TAML dissolved								
1 LMW-2-1108	11/24/08 @ 0920	X	X	X	X	X	X	X	X	Hold all filtered							
2 LMW-4-1108	@ 1030									unpreserved samples							
3 LMW-5	@									pending initial							
4 LMW-6-1108	@ 1240									analytical results							
5 LMW-EB-1108	@ 1100																
6 Trip Blank																	
7																	
8																	
9																	
10																	
RELEASED BY: <u>Ian Young</u>		FIRM: <u>EAI</u>		DATE: <u>11/24/08</u>		TIME: <u>1500</u>		RECEIVED BY: <u>Corette Weaver</u>		FIRM: <u>TAL-S earth</u>		DATE: <u>11-24-08</u>		TIME: <u>1500</u>			
PRINT NAME: <u>Ian Young</u>								PRINT NAME: <u>Corette Weaver</u>									
RELEASED BY:		FIRM:		DATE:		TIME:		RECEIVED BY:		FIRM:		DATE:		TIME:			
PRINT NAME:								PRINT NAME:									
ADDITIONAL REMARKS:																	

TEMP: 10.2°C WLU
PAGE 1 OF 1
TAL-1000(0408)

TAT: 10

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle (Y) or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: 320, 333, 348Date: 11-24-08

Date: _____

Date: 11/26

Work Order No. _____

Time: 1500

Time: _____

Time: 9:15

Client: _____

Initials: CW

Initials: _____

Initials: CW

Project: _____

Container Type:

COC Seals:

Packing Material _____

☒ Cooler☐ Ship Container

Sign By _____

☒ Bubble Bags☐ Styrofoam☐ Box☐ On Bottles

Date _____

☐ Foam Packs☐ None/Other _____☒ None☐ None/Other _____

Refrigerant:

Received Via: Bill#

☐ Gel Ice Pack _____☐ Fed Ex ☒ Client☒ Loose Ice _____☐ UPS ☐ TA Courier☐ None/Other _____☐ DHL ☐ Mid Valley☐ Senvoy ☐ TDP☐ GS ☐ Other _____Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)Temperature Blank? 10.2 °C or NA 9.22, 8.52Trip Blank? (Y) or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact?

(Y) or N

Metals Preserved?

(Y) or (N) or NA

Provided by TA?

(Y) or N

Client QAPP Preserved?

Y or N or NA unpreserved

Correct Type?

Y or (N)Adequate Volume?
(for tests requested)

Y or N

4 samples per sample for PCB/PAH/SMA

#Containers match COC?

(Y) or N

Water VOAs: Headspace?

Y or (N) or NA

IDs/time/date match COC?

(Y) or N

Comments: _____

Hold Times in hold?

(Y) or N

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Has client been contacted regarding non-conformances?

Y or N

Y or N

if Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

December 09, 2008

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

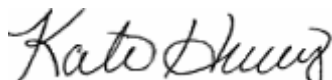
RE: Landsburg Mine

Enclosed are the results of analyses for samples received by the laboratory on 11/25/08 17:05.
The following list is a summary of the Work Orders contained in this report, generated on 12/09/08 12:29.

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

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRK0304	Landsburg Mine	923-1000-002-R273

TestAmerica Seattle



Kate Haney, 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

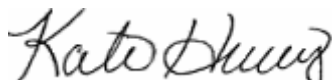
Report Created:

12/09/08 12:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW-11-1108	BRK0304-01	Water	11/25/08 10:15	11/25/08 17:05
LMW-10-1108	BRK0304-02	Water	11/25/08 12:15	11/25/08 17:05
LMW-9-1108	BRK0304-03	Water	11/25/08 14:00	11/25/08 17:05
LMW-9-1108-D	BRK0304-04	Water	11/25/08 14:05	11/25/08 17:05

TestAmerica Seattle



Kate Haney, 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:

12/09/08 12:29

Analytical Case Narrative

TestAmerica - Seattle, WA

BRK0304**SAMPLE RECEIPT**

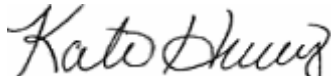
The samples were received November 25th, 2008 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 10.8 degrees Celsius which is outside the recommended temperature range of 2-6 Degrees Celsius. The samples are considered acceptable as they were recieved on-ice within four hours of the collection of the last sampled time on the COC.

PREPARATIONS AND ANALYSIS

8081 Pesticides: The samples were initially extracted in laboratory batch 8K25012. The percent recovery for Endrin was below the established acceptance criteria in the laboratory blank spike and blank spike duplicate. Additionally, the RPD for Endrin was above the established acceptance criteria in the blank spike duplicate. The samples were re-extracted outside the method established hold time in laboratory batch 8L03015 with passing Endrin recoveries. Both sets of results were reported.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 12:29

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-01 (LMW-11-1108)		Water		Sampled: 11/25/08 10:15						
Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.236	mg/l	1x	8K25014	11/25/08 14:15	11/26/08 20:36	
Diesel Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			117%		50 - 150 %	"				"
<i>Octacosane</i>			93.8%		50 - 150 %	"				"
BRK0304-02 (LMW-10-1108)		Water		Sampled: 11/25/08 12:15						
Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.236	mg/l	1x	8K25014	11/25/08 14:15	11/26/08 20:58	
Diesel Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			126%		50 - 150 %	"				"
<i>Octacosane</i>			98.8%		50 - 150 %	"				"
BRK0304-03 (LMW-9-1108)		Water		Sampled: 11/25/08 14:00						
Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.236	mg/l	1x	8K25014	11/25/08 14:15	11/26/08 21:20	
Diesel Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			132%		50 - 150 %	"				"
<i>Octacosane</i>			99.7%		50 - 150 %	"				"
BRK0304-04 (LMW-9-1108-D)		Water		Sampled: 11/25/08 14:05						
Gx Range Hydrocarbons	NWTPH-HCID	ND	----	0.236	mg/l	1x	8K25014	11/25/08 14:15	11/26/08 21:41	
Diesel Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
Lube Oil Range Hydrocarbons	"	ND	----	0.594	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			133%		50 - 150 %	"				"
<i>Octacosane</i>			97.2%		50 - 150 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-01 (LMW-11-1108)		Water		Sampled: 11/25/08 10:15						
Aluminum	EPA 6010B	ND	----	0.200	mg/l	1x	8K26043	11/26/08 17:02	11/28/08 14:53	
Antimony	EPA 6020	ND	----	0.00300	"	"	8K26042	11/26/08 16:58	12/01/08 17:03	
Arsenic	"	0.00854	----	0.00100	"	"	"	"	"	
Barium	"	0.254	----	0.0100	"	"	"	"	"	
Beryllium	"	ND	----	0.00100	"	"	"	"	"	
Cadmium	"	ND	----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	ND	----	0.750	"	"	8K26043	11/26/08 17:02	11/28/08 14:53	M1
Chromium	EPA 6020	ND	----	0.00100	"	"	8K26042	11/26/08 16:58	12/01/08 17:03	
Cobalt	"	ND	----	0.00100	"	"	"	"	12/04/08 16:35	
Copper	"	ND	----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	ND	----	0.150	"	"	8K26043	11/26/08 17:02	11/28/08 14:53	M1
Lead	EPA 6020	ND	----	0.00100	"	"	8K26042	11/26/08 16:58	12/04/08 16:35	
Magnesium	EPA 6010B	ND	----	0.500	"	"	8K26043	11/26/08 17:02	11/28/08 14:53	M1
Manganese	EPA 6020	0.140	----	0.0100	"	"	8K26042	11/26/08 16:58	12/04/08 16:35	M2
Mercury	EPA 7470A	ND	----	0.000200	"	"	8L01020	12/01/08 12:36	12/03/08 11:49	
Nickel	EPA 6020	0.00136	----	0.00100	"	"	8K26042	11/26/08 16:58	12/04/08 16:35	
Potassium	EPA 6010B	ND	----	3.00	"	"	8K26043	11/26/08 17:02	11/28/08 14:53	
Selenium	EPA 6020	ND	----	0.00100	"	"	8K26042	11/26/08 16:58	12/01/08 17:03	
Silver	"	ND	----	0.00100	"	"	"	"	12/04/08 16:35	
Sodium	EPA 6010B	ND	----	0.250	"	"	8K26043	11/26/08 17:02	11/28/08 14:53	M1
Thallium	EPA 6020	ND	----	0.00100	"	"	8K26042	11/26/08 16:58	12/04/08 16:35	
Vanadium	"	ND	----	0.00100	"	"	"	"	"	
Zinc	"	ND	----	0.0100	"	"	"	"	"	
BRK0304-02 (LMW-10-1108)		Water		Sampled: 11/25/08 12:15						
Aluminum	EPA 6010B	ND	----	0.200	mg/l	1x	8K26043	11/26/08 17:02	11/28/08 16:06	
Antimony	EPA 6020	ND	----	0.00300	"	"	8K26042	11/26/08 16:58	12/01/08 17:09	
Arsenic	"	ND	----	0.00100	"	"	"	"	"	
Barium	"	0.0355	----	0.0100	"	"	"	"	"	
Beryllium	"	ND	----	0.00100	"	"	"	"	"	
Cadmium	"	ND	----	0.00100	"	"	"	"	"	
Calcium	EPA 6010B	6.67	----	0.750	"	"	8K26043	11/26/08 17:02	11/28/08 16:06	
Chromium	EPA 6020	ND	----	0.00100	"	"	8K26042	11/26/08 16:58	12/01/08 17:09	
Cobalt	"	ND	----	0.00100	"	"	"	"	12/04/08 16:58	
Copper	"	ND	----	0.00100	"	"	"	"	"	
Iron	EPA 6010B	ND	----	0.150	"	"	8K26043	11/26/08 17:02	11/28/08 16:06	
Lead	EPA 6020	ND	----	0.00100	"	"	8K26042	11/26/08 16:58	12/04/08 16:58	
Magnesium	EPA 6010B	2.51	----	0.500	"	"	8K26043	11/26/08 17:02	11/28/08 16:06	
Manganese	EPA 6020	ND	----	0.0100	"	"	8K26042	11/26/08 16:58	12/04/08 16:58	
Mercury	EPA 7470A	ND	----	0.000200	"	"	8L01020	12/01/08 12:36	12/03/08 11:52	
Nickel	EPA 6020	ND	----	0.00100	"	"	8K26042	11/26/08 16:58	12/04/08 16:58	
Potassium	EPA 6010B	ND	----	3.00	"	"	8K26043	11/26/08 17:02	11/28/08 16:06	

TestAmerica Seattle

Kate Haney

Kate Haney, 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.



Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

BRK0304-02	(LMW-10-1108)	Water	Sampled: 11/25/08 12:15						
Selenium	EPA 6020	ND	----	0.00100	mg/l	1x	8K26042	11/26/08 16:58	12/01/08 17:09
Silver	"	ND	----	0.00100	"	"	"	"	12/04/08 16:58
Sodium	EPA 6010B	79.0	----	0.250	"	"	8K26043	11/28/08 17:02	11/28/08 16:06
Thallium	EPA 6020	ND	----	0.00100	"	"	8K26042	11/26/08 16:58	12/04/08 16:58
Vanadium	"	ND	----	0.00100	"	"	"	"	"
Zinc	"	ND	----	0.0100	"	"	"	"	"

BRK0304-03	(LMW-9-1108)	Water			Sampled: 11/25/08 14:00				
Aluminum	EPA 6010B	ND	----	0.200	mg/l	1x	8K26043	11/26/08 17:02	11/28/08 16:10
Antimony	EPA 6020	ND	----	0.00300	"	"	8K26042	11/26/08 16:58	12/01/08 17:15
Arsenic	"	ND	----	0.00100	"	"	"	"	"
Barium	"	0.295	----	0.0100	"	"	"	"	"
Beryllium	"	ND	----	0.00100	"	"	"	"	"
Cadmium	"	ND	----	0.00100	"	"	"	"	"
Calcium	EPA 6010B	82.2	----	0.750	"	"	8K26043	11/26/08 17:02	11/28/08 16:10
Chromium	EPA 6020	0.00126	----	0.00100	"	"	8K26042	11/26/08 16:58	12/01/08 17:15
Cobalt	"	ND	----	0.00100	"	"	"	"	12/04/08 17:04
Copper	"	ND	----	0.00100	"	"	"	"	"
Iron	EPA 6010B	1.70	----	0.150	"	"	8K26043	11/26/08 17:02	11/28/08 16:10
Lead	EPA 6020	ND	----	0.00100	"	"	8K26042	11/26/08 16:58	12/04/08 17:04
Magnesium	EPA 6010B	44.1	----	0.500	"	"	8K26043	11/26/08 17:02	11/28/08 16:10
Manganese	EPA 6020	0.172	----	0.0100	"	"	8K26042	11/26/08 16:58	12/04/08 17:04
Mercury	EPA 7470A	ND	----	0.000200	"	"	8L01020	12/01/08 12:36	12/03/08 11:54
Nickel	EPA 6020	0.00353	----	0.00100	"	"	8K26042	11/26/08 16:58	12/04/08 17:04
Potassium	EPA 6010B	ND	----	3.00	"	"	8K26043	11/26/08 17:02	11/28/08 16:10
Selenium	EPA 6020	ND	----	0.00100	"	"	8K26042	11/26/08 16:58	12/01/08 17:15
Silver	"	ND	----	0.00100	"	"	"	"	12/04/08 17:04
Sodium	EPA 6010B	17.9	----	0.250	"	"	8K26043	11/26/08 17:02	11/28/08 16:10
Thallium	EPA 6020	ND	----	0.00100	"	"	8K26042	11/26/08 16:58	12/04/08 17:04
Vanadium	"	ND	----	0.00100	"	"	"	"	"
Zinc	"	ND	----	0.0100	"	"	"	"	"

Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

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.

Kate Haney, 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:
12/09/08 12:29

Organochlorine Pesticides by EPA Method 8081A
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-01 (LMW-11-1108)		Water					Sampled: 11/25/08 10:15			
Aldrin	EPA 8081A	ND	----	0.0476	ug/l	1x	8K25012	11/25/08 11:55	12/02/08 13:08	
alpha-BHC	"	ND	----	0.0381	"	"	"	"	"	
beta-BHC	"	ND	----	0.0381	"	"	"	"	"	
delta-BHC [2C]	"	ND	----	0.0476	"	"	"	"	"	L
gamma-BHC (Lindane)	"	ND	----	0.0381	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0762	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0762	"	"	"	"	"	
Dieldrin	"	ND	----	0.0762	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0190	"	"	"	"	"	
Endosulfan II	"	ND	----	0.0762	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	0.0952	"	"	"	"	"	
Endrin	"	ND	----	0.0762	"	"	"	"	"	L2
Endrin aldehyde	"	ND	----	0.152	"	"	"	"	"	L
Endrin ketone	"	ND	----	0.0762	"	"	"	"	"	L
Heptachlor	"	ND	----	0.0476	"	"	"	"	"	L
Heptachlor epoxide	"	ND	----	0.0381	"	"	"	"	"	
Methoxychlor [2C]	"	ND	----	0.476	"	"	"	"	"	

Surrogate(s): TCX 74.9% 10 - 120 % "

Decachlorobiphenyl [2C] 80.6% 10 - 142 % "

BRK0304-01RE1 (LMW-11-1108)		Water					Sampled: 11/25/08 10:15			H8
Endrin [2C]	EPA 8081A	ND	----	0.0792	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 16:34	
Surrogate(s): TCX [2C]				78.4%			10 - 120 %	"	"	
Decachlorobiphenyl [2C]				79.3%			10 - 142 %	"	"	

BRK0304-02 (LMW-10-1108)		Water					Sampled: 11/25/08 12:15			
Aldrin	EPA 8081A	ND	----	0.0476	ug/l	1x	8K25012	11/25/08 18:00	12/02/08 13:25	
alpha-BHC	"	ND	----	0.0381	"	"	"	"	"	
beta-BHC	"	ND	----	0.0381	"	"	"	"	"	
delta-BHC [2C]	"	ND	----	0.0476	"	"	"	"	"	L
gamma-BHC (Lindane)	"	ND	----	0.0381	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0381	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0762	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0762	"	"	"	"	"	
Dieldrin	"	ND	----	0.0762	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0190	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-02 (LMW-10-1108)		Water		Sampled: 11/25/08 12:15						
Endosulfan II	EPA 8081A	ND	----	0.0762	ug/l	1x	8K25012	11/25/08 18:00	12/02/08 13:25	
Endosulfan sulfate	"	ND	----	0.0952	"	"	"	"	"	
Endrin	"	ND	----	0.0762	"	"	"	"	"	L2
Endrin aldehyde	"	ND	----	0.152	"	"	"	"	"	L
Endrin ketone	"	ND	----	0.0762	"	"	"	"	"	L
Heptachlor	"	ND	----	0.0476	"	"	"	"	"	L
Heptachlor epoxide	"	ND	----	0.0381	"	"	"	"	"	
Methoxychlor [2C]	"	ND	----	0.476	"	"	"	"	"	
Surrogate(s): TCX			85.7%		10 - 120 %	"			"	
Decachlorobiphenyl [2C]			82.7%		10 - 142 %	"			"	
BRK0304-02RE1 (LMW-10-1108)		Water		Sampled: 11/25/08 12:15						
Endrin [2C]	EPA 8081A	ND	----	0.0784	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 16:52	H8
Surrogate(s): TCX [2C]			71.4%		10 - 120 %	"			"	
Decachlorobiphenyl [2C]			79.8%		10 - 142 %	"			"	
BRK0304-03 (LMW-9-1108)		Water		Sampled: 11/25/08 14:00						
Aldrin	EPA 8081A	ND	----	0.0472	ug/l	1x	8K25012	11/25/08 18:00	12/02/08 13:43	
alpha-BHC	"	ND	----	0.0377	"	"	"	"	"	
beta-BHC	"	ND	----	0.0377	"	"	"	"	"	
delta-BHC [2C]	"	ND	----	0.0472	"	"	"	"	"	L
gamma-BHC (Lindane)	"	ND	----	0.0377	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0377	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0377	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0377	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0755	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0755	"	"	"	"	"	
Dieldrin	"	ND	----	0.0755	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0189	"	"	"	"	"	
Endosulfan II	"	ND	----	0.0755	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	0.0943	"	"	"	"	"	
Endrin	"	ND	----	0.0755	"	"	"	"	"	L2
Endrin aldehyde	"	ND	----	0.151	"	"	"	"	"	L
Endrin ketone	"	ND	----	0.0755	"	"	"	"	"	L
Heptachlor	"	ND	----	0.0472	"	"	"	"	"	L
Heptachlor epoxide	"	ND	----	0.0377	"	"	"	"	"	
Methoxychlor [2C]	"	ND	----	0.472	"	"	"	"	"	
Surrogate(s): TCX			86.2%		10 - 120 %	"			"	
Decachlorobiphenyl [2C]			55.7%		10 - 142 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 12:29

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-03RE1 (LMW-9-1108)		Water		Sampled: 11/25/08 14:00						H8
Endrin [2C]	EPA 8081A	ND	----	0.0755	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 17:10	
<i>Surrogate(s): TCX [2C]</i>			81.4%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			64.5%		10 - 142 %	"			"	
BRK0304-04 (LMW-9-1108-D)		Water		Sampled: 11/25/08 14:05						
Aldrin	EPA 8081A	ND	----	0.0472	ug/l	1x	8K25012	11/25/08 18:00	12/02/08 14:00	
alpha-BHC	"	ND	----	0.0377	"	"	"	"	"	
beta-BHC	"	ND	----	0.0377	"	"	"	"	"	
delta-BHC [2C]	"	ND	----	0.0472	"	"	"	"	"	L
gamma-BHC (Lindane)	"	ND	----	0.0377	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0377	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0377	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0377	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0755	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0755	"	"	"	"	"	
Dieldrin	"	ND	----	0.0755	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0189	"	"	"	"	"	
Endosulfan II	"	ND	----	0.0755	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	0.0943	"	"	"	"	"	
Endrin	"	ND	----	0.0755	"	"	"	"	"	L2
Endrin aldehyde	"	ND	----	0.151	"	"	"	"	"	L
Endrin ketone	"	ND	----	0.0755	"	"	"	"	"	L
Heptachlor	"	ND	----	0.0472	"	"	"	"	"	L
Heptachlor epoxide	"	ND	----	0.0377	"	"	"	"	"	
Methoxychlor [2C]	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): TCX</i>			77.8%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			55.2%		10 - 142 %	"			"	
BRK0304-04RE1 (LMW-9-1108-D)		Water		Sampled: 11/25/08 14:05						H8
Endrin [2C]	EPA 8081A	ND	----	0.0762	ug/l	1x	8L03015	12/03/08 12:34	12/05/08 17:29	
<i>Surrogate(s): TCX [2C]</i>			70.0%		10 - 120 %	"			"	
<i>Decachlorobiphenyl [2C]</i>			75.2%		10 - 142 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

Polychlorinated Biphenyls by EPA Method 8082
TestAmerica Seattle

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

BRK0304-01 (LMW-11-1108)

Water

Sampled: 11/25/08 10:15

Aroclor 1016	EPA 8082	ND	----	0.476	ug/l	1x	8K25012	11/25/08 18:00	11/27/08 19:04	
Aroclor 1221	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.476	"	"	"	"	"	

Surrogate(s): TCX 77.6% 36 - 134 % "
Decachlorobiphenyl 80.4% 15 - 124 % "

BRK0304-02 (LMW-10-1108)

Water

Sampled: 11/25/08 12:15

Aroclor 1016	EPA 8082	ND	----	0.476	ug/l	1x	8K25012	11/25/08 18:00	11/27/08 19:20	
Aroclor 1221	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.476	"	"	"	"	"	

Surrogate(s): TCX 81.5% 36 - 134 % "
Decachlorobiphenyl 80.0% 15 - 124 % "

BRK0304-03 (LMW-9-1108)

Water

Sampled: 11/25/08 14:00

Aroclor 1016	EPA 8082	ND	----	0.472	ug/l	1x	8K25012	11/25/08 18:00	11/27/08 19:36	
Aroclor 1221	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.472	"	"	"	"	"	

Surrogate(s): TCX 78.8% 36 - 134 % "
Decachlorobiphenyl 54.8% 15 - 124 % "

TestAmerica Seattle

Kate Haney

Kate Haney, 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

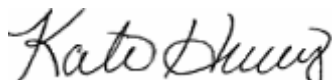
Project Name: **Landsburg Mine**
 Project Number: 923-1000-002-R273
 Project Manager: Douglas Morell

Report Created:
 12/09/08 12:29

Polychlorinated Biphenyls by EPA Method 8082
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-04 (LMW-9-1108-D)		Water		Sampled: 11/25/08 14:05						
Aroclor 1016	EPA 8082	ND	----	0.472	ug/l	1x	8K25012	11/25/08 18:00	11/27/08 19:52	
Aroclor 1221	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1262	"	ND	----	0.472	"	"	"	"	"	
Aroclor 1268	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): TCX</i>				79.6%	36 - 134 %	"			"	
<i>Decachlorobiphenyl</i>				56.5%	15 - 124 %	"			"	

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 12:29

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-01 (LMW-11-1108)		Water					Sampled: 11/25/08 10:15			
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 19:16	
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

Kate Haney

Kate Haney, 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:
12/09/08 12:29

Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-01 (LMW-11-1108)		Water		Sampled: 11/25/08 10:15						
Isopropylbenzene	EPA 8260B	ND	----	0.500	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 19:16	
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	116%	76 - 138 %	"	"
	Toluene-d8	100%	80 - 120 %	"	"
	4-BFB	96.4%	80 - 120 %	"	"

BRK0304-02 (LMW-10-1108)

Water

Sampled: 11/25/08 12:15

Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 19:44	
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	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/09/08 12:29

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-02 (LMW-10-1108)		Water		Sampled: 11/25/08 12:15						
Chlorobenzene	EPA 8260B	ND	----	0.200	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 19:44	
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	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	----	0.200	"	"	"	"	"	
Toluene	"	ND	----	0.200	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/09/08 12:29

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-02 (LMW-10-1108)		Water		Sampled: 11/25/08 12:15						
1,1,1-Trichloroethane	EPA 8260B	ND	----	0.200	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 19:44	
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>			<i>118%</i>		<i>76 - 138 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>95.2%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>95.6%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>	

BRK0304-03 (LMW-9-1108)		Water		Sampled: 11/25/08 14:00						
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 20:13	
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

Kate Haney

Kate Haney, 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:

12/09/08 12:29

Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-03 (LMW-9-1108)		Water		Sampled: 11/25/08 14:00						
Dichlorodifluoromethane	EPA 8260B	ND	----	0.500	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 20:13	
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	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4		119%		76 - 138 %		"		"		

TestAmerica Seattle

Kate Haney

Kate Haney, 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

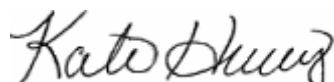
Report Created:
12/09/08 12:29

Volatile Organic Compounds by EPA Method 8260B

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-03 (LMW-9-1108)		Water					Sampled: 11/25/08 14:00			
<i>Toluene-d8</i>		99.0%		80 - 120 %		1x			11/28/08 20:13	
<i>4-BFB</i>		94.2%		80 - 120 %		"			"	
BRK0304-04 (LMW-9-1108-D)		Water					Sampled: 11/25/08 14:05			
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 20:42	
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	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 12:29

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-04 (LMW-9-1108-D)		Water		Sampled: 11/25/08 14:05						
Ethylbenzene	EPA 8260B	ND	----	0.200	ug/l	1x	8K28011	11/28/08 10:53	11/28/08 20:42	
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	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4
 Toluene-d8
 4-BFB

119%
 98.4%
 97.0%

76 - 138 %
 80 - 120 %
 80 - 120 %

"
 "
 "

"
 "
 "

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 12:29

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-01 (LMW-11-1108)		Water		Sampled: 11/25/08 10:15						
Acenaphthene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 16:55	
Acenaphthylene	"	ND	----	9.43	"	"	"	"	"	
Aniline	"	ND	----	9.43	"	"	"	"	"	
Anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.43	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.43	"	"	"	"	"	
Benzoic Acid	"	ND	----	18.9	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.43	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Carbazole	"	ND	----	9.43	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.43	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.43	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.43	"	"	"	"	"	
Chrysene	"	ND	----	9.43	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.43	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.43	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.43	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.43	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.43	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	18.9	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.43	"	"	"	"	"	
Fluoranthene	"	ND	----	9.43	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 12:29

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-01 (LMW-11-1108)		Water		Sampled: 11/25/08 10:15						
Fluorene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 16:55	
Hexachlorobenzene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.43	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.43	"	"	"	"	"	
Isophorone	"	ND	----	9.43	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
Naphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.43	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.43	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.43	"	"	"	"	"	
Phenanthrene	"	ND	----	9.43	"	"	"	"	"	
Phenol	"	ND	----	9.43	"	"	"	"	"	
Pyrene	"	ND	----	9.43	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			70.9%		44 - 120 %	"				"
<i>2-FP</i>			60.9%		16 - 120 %	"				"
<i>Nitrobenzene-d5</i>			70.0%		38 - 120 %	"				"
<i>Phenol-d6</i>			60.5%		16 - 120 %	"				"
<i>p-Terphenyl-d14</i>			58.7%		24 - 146 %	"				"
<i>2,4,6-TBP</i>			56.3%		32 - 135 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 12:29

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-02 (LMW-10-1108)		Water		Sampled: 11/25/08 12:15						
Acenaphthene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 17:19	
Acenaphthylene	"	ND	----	9.43	"	"	"	"	"	
Aniline	"	ND	----	9.43	"	"	"	"	"	
Anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.43	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.43	"	"	"	"	"	
Benzoic Acid	"	ND	----	18.9	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.43	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Carbazole	"	ND	----	9.43	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.43	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.43	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.43	"	"	"	"	"	
Chrysene	"	ND	----	9.43	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.43	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.43	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.43	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.43	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.43	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	18.9	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.43	"	"	"	"	"	
Fluoranthene	"	ND	----	9.43	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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

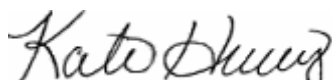
Project Name: **Landsburg Mine**
 Project Number: 923-1000-002-R273
 Project Manager: Douglas Morell

Report Created:
 12/09/08 12:29

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-02 (LMW-10-1108)		Water		Sampled: 11/25/08 12:15						
Fluorene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 17:19	
Hexachlorobenzene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.43	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.43	"	"	"	"	"	
Isophorone	"	ND	----	9.43	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
Naphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.43	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.43	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.43	"	"	"	"	"	
Phenanthrene	"	ND	----	9.43	"	"	"	"	"	
Phenol	"	ND	----	9.43	"	"	"	"	"	
Pyrene	"	ND	----	9.43	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			74.4%		44 - 120 %	"				"
<i>2-FP</i>			66.6%		16 - 120 %	"				"
<i>Nitrobenzene-d5</i>			73.9%		38 - 120 %	"				"
<i>Phenol-d6</i>			65.8%		16 - 120 %	"				"
<i>p-Terphenyl-d14</i>			61.6%		24 - 146 %	"				"
<i>2,4,6-TBP</i>			64.7%		32 - 135 %	"				"

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 12:29

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-03 (LMW-9-1108)		Water		Sampled: 11/25/08 14:00						
Acenaphthene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 17:44	
Acenaphthylene	"	ND	----	9.43	"	"	"	"	"	
Aniline	"	ND	----	9.43	"	"	"	"	"	
Anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.43	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.43	"	"	"	"	"	
Benzoic Acid	"	ND	----	18.9	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.43	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Carbazole	"	ND	----	9.43	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.43	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.43	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.43	"	"	"	"	"	
Chrysene	"	ND	----	9.43	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.43	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.43	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.43	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.43	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.43	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	18.9	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.43	"	"	"	"	"	
Fluoranthene	"	ND	----	9.43	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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

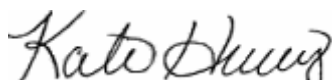
Project Name: **Landsburg Mine**
 Project Number: 923-1000-002-R273
 Project Manager: Douglas Morell

Report Created:
 12/09/08 12:29

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-03 (LMW-9-1108)		Water		Sampled: 11/25/08 14:00						
Fluorene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 17:44	
Hexachlorobenzene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.43	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.43	"	"	"	"	"	
Isophorone	"	ND	----	9.43	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
Naphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.43	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.43	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.43	"	"	"	"	"	
Phenanthrene	"	ND	----	9.43	"	"	"	"	"	
Phenol	"	ND	----	9.43	"	"	"	"	"	
Pyrene	"	ND	----	9.43	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			70.5%		44 - 120 %	"				"
<i>2-FP</i>			59.4%		16 - 120 %	"				"
<i>Nitrobenzene-d5</i>			69.2%		38 - 120 %	"				"
<i>Phenol-d6</i>			58.1%		16 - 120 %	"				"
<i>p-Terphenyl-d14</i>			58.9%		24 - 146 %	"				"
<i>2,4,6-TBP</i>			53.8%		32 - 135 %	"				"

TestAmerica Seattle



Kate Haney, 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:

12/09/08 12:29

Semivolatile Organic Compounds by EPA Method 8270C
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-04 (LMW-9-1108-D)		Water		Sampled: 11/25/08 14:05						
Acenaphthene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 18:09	
Acenaphthylene	"	ND	----	9.43	"	"	"	"	"	
Aniline	"	ND	----	9.43	"	"	"	"	"	
Anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	9.43	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	9.43	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	9.43	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	9.43	"	"	"	"	"	
Benzoic Acid	"	ND	----	18.9	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.43	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.43	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Carbazole	"	ND	----	9.43	"	"	"	"	"	
4-Chloroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Chlorophenol	"	ND	----	9.43	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	9.43	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	----	9.43	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	----	9.43	"	"	"	"	"	
Chrysene	"	ND	----	9.43	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	9.43	"	"	"	"	"	
Dibenzofuran	"	ND	----	9.43	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	9.43	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	9.43	"	"	"	"	"	
Diethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.43	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	9.43	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.43	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	18.9	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	9.43	"	"	"	"	"	
Fluoranthene	"	ND	----	9.43	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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

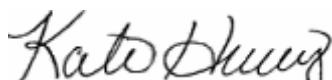
Project Name: **Landsburg Mine**
 Project Number: 923-1000-002-R273
 Project Manager: Douglas Morell

Report Created:
 12/09/08 12:29

Semivolatile Organic Compounds by EPA Method 8270C
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0304-04 (LMW-9-1108-D)		Water		Sampled: 11/25/08 14:05						
Fluorene	EPA 8270C	ND	----	9.43	ug/l	1x	8K25013	11/25/08 14:55	12/01/08 18:09	
Hexachlorobenzene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.43	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.43	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	9.43	"	"	"	"	"	
Isophorone	"	ND	----	9.43	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	9.43	"	"	"	"	"	
Naphthalene	"	ND	----	9.43	"	"	"	"	"	
2-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.43	"	"	"	"	"	
Nitrobenzene	"	ND	----	9.43	"	"	"	"	"	
2-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
4-Nitrophenol	"	ND	----	9.43	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.43	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	9.43	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.43	"	"	"	"	"	
Phenanthrene	"	ND	----	9.43	"	"	"	"	"	
Phenol	"	ND	----	9.43	"	"	"	"	"	
Pyrene	"	ND	----	9.43	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	9.43	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	9.43	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			68.0%		44 - 120 %	"				"
<i>2-FP</i>			60.8%		16 - 120 %	"				"
<i>Nitrobenzene-d5</i>			68.5%		38 - 120 %	"				"
<i>Phenol-d6</i>			59.9%		16 - 120 %	"				"
<i>p-Terphenyl-d14</i>			55.0%		24 - 146 %	"				"
<i>2,4,6-TBP</i>			58.3%		32 - 135 %	"				"

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 12:29

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

TestAmerica Seattle

QC Batch: 8K25014

Water Preparation Method: EPA 3520C

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

Blank (8K25014-BLK1)

Extracted: 11/25/08 11:56

Gx Range Hydrocarbons	NWTPH-HCI	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	11/26/08 15:50	
	D													
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
 Octacosane

Recovery: 118%
 92.0%

Limits: 50-150%
 50-150%

"
 "

11/26/08 15:50
 "

LCS (8K25014-BS1)

Extracted: 11/25/08 11:56

Diesel Range Hydrocarbons	NWTPH-HCI	DET	---	0.630	mg/l	1x	--	2.00	83.8%	(58-125)	--	--	11/26/08 16:12	
	D													
Lube Oil Range Hydrocarbons	"	DET	---	0.630	"	"	--	"	89.7%	(60-140)	--	--	"	

Surrogate(s): 2-FBP
 Octacosane

Recovery: 116%
 91.4%

Limits: 50-150%
 50-150%

"
 "

11/26/08 16:12
 "

LCS Dup (8K25014-BSD1)

Extracted: 11/25/08 11:56

Diesel Range Hydrocarbons	NWTPH-HCI	DET	---	0.630	mg/l	1x	--	2.00	89.2%	(58-125)	6.18%	(40)	11/26/08 16:34	
	D													
Lube Oil Range Hydrocarbons	"	DET	---	0.630	"	"	--	"	92.2%	(60-140)	2.77%	"	"	

Surrogate(s): 2-FBP
 Octacosane

Recovery: 131%
 94.7%

Limits: 50-150%
 50-150%

"
 "

11/26/08 16:34
 "

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

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

TestAmerica Seattle

QC Batch: 8K26042

Water Preparation Method: EPA 3020A

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

Blank (8K26042-BLK1)

Extracted: 11/26/08 16:58

Selenium	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	12/01/08 16:11	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Beryllium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	0.00100	"	"	--	--	--	--	--	--	12/04/08 16:11	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Antimony	"	ND	---	0.00300	"	"	--	--	--	--	--	--	12/01/08 16:11	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	12/04/08 16:11	
Cobalt	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	12/01/08 16:11	
Nickel	"	ND	---	0.00100	"	"	--	--	--	--	--	--	12/04/08 16:11	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Thallium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Vanadium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Manganese	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

LCS (8K26042-BS1)

Extracted: 11/26/08 16:58

Beryllium	EPA 6020	0.0724	---	0.00100	mg/l	1x	--	0.0800	90.6%	(80-120)	--	--	12/01/08 16:17	
Thallium	"	0.0736	---	0.00100	"	"	--	"	92.0%	"	--	--	12/04/08 16:17	
Lead	"	0.0743	---	0.00100	"	"	--	"	92.9%	"	--	--	"	
Nickel	"	0.0736	---	0.00100	"	"	--	"	92.0%	"	--	--	"	
Chromium	"	0.0757	---	0.00100	"	"	--	"	94.6%	"	--	--	12/01/08 16:17	
Cobalt	"	0.0723	---	0.00100	"	"	--	"	90.3%	"	--	--	12/04/08 16:17	
Zinc	"	0.0780	---	0.0100	"	"	--	"	97.6%	"	--	--	"	
Selenium	"	0.0706	---	0.00100	"	"	--	"	88.3%	"	--	--	12/01/08 16:17	
Antimony	"	0.0540	---	0.00300	"	"	--	0.0600	90.0%	"	--	--	"	
Manganese	"	0.0734	---	0.0100	"	"	--	0.0800	91.8%	"	--	--	12/04/08 16:17	
Copper	"	0.0738	---	0.00100	"	"	--	"	92.3%	"	--	--	"	
Cadmium	"	0.0703	---	0.00100	"	"	--	"	87.9%	"	--	--	12/01/08 16:17	
Barium	"	0.0744	---	0.0100	"	"	--	"	93.0%	"	--	--	"	
Arsenic	"	0.0704	---	0.00100	"	"	--	"	88.0%	"	--	--	"	
Silver	"	0.0777	---	0.00100	"	"	--	"	97.1%	"	--	--	12/04/08 16:17	
Vanadium	"	0.0704	---	0.00100	"	"	--	"	88.0%	"	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

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

TestAmerica Seattle

QC Batch: 8K26042

Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8K26042-DUP1)			QC Source: BRK0304-01					Extracted: 11/26/08 16:58						
Thallium	EPA 6020	ND	---	0.00100	mg/l	1x	ND	--	--	--	NR	(20)	12/04/08 16:29	
Manganese	"	0.142	---	0.0100	"	"	0.140	--	--	--	0.922%	"	"	
Nickel	"	0.00137	---	0.00100	"	"	0.00136	--	--	--	0.733%	"	"	
Silver	"	ND	---	0.00100	"	"	ND	--	--	--	24.6%	"	"	R4
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Vanadium	"	ND	---	0.00100	"	"	ND	--	--	--	40.0%	"	"	R4
Selenium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	12/01/08 16:52	
Antimony	"	ND	---	0.00300	"	"	ND	--	--	--	"	"	"	
Cobalt	"	ND	---	0.00100	"	"	ND	--	--	--	6.59%	"	12/04/08 16:29	
Arsenic	"	0.00861	---	0.00100	"	"	0.00854	--	--	--	0.816%	"	12/01/08 16:52	
Zinc	"	ND	---	0.0100	"	"	ND	--	--	--	NR	"	12/04/08 16:29	
Chromium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	12/01/08 16:52	
Beryllium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Copper	"	ND	---	0.00100	"	"	ND	--	--	--	0.00%	"	12/04/08 16:29	
Barium	"	0.255	---	0.0100	"	"	0.254	--	--	--	0.511%	"	12/01/08 16:52	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Matrix Spike (8K26042-MS1)			QC Source: BRK0304-01					Extracted: 11/26/08 16:58						
Copper	EPA 6020	0.0715	---	0.00100	mg/l	1x	0.000330	0.0800	89.0%	(75-125)	--	--	12/04/08 16:23	
Arsenic	"	0.0782	---	0.00100	"	"	0.00854	"	87.1%	"	--	--	12/01/08 16:46	
Manganese	"	0.198	---	0.0100	"	"	0.140	"	71.4%	"	--	--	12/04/08 16:23	M2
Beryllium	"	0.0719	---	0.00100	"	"	ND	"	89.9%	"	--	--	12/01/08 16:46	
Nickel	"	0.0751	---	0.00100	"	"	0.00136	"	92.2%	"	--	--	12/04/08 16:23	
Antimony	"	0.0559	---	0.00300	"	"	ND	0.0600	93.1%	"	--	--	12/01/08 16:46	
Selenium	"	0.0710	---	0.00100	"	"	ND	0.0800	88.8%	"	--	--	"	
Lead	"	0.0740	---	0.00100	"	"	ND	"	92.4%	"	--	--	12/04/08 16:23	
Silver	"	0.0713	---	0.00100	"	"	0.000250	"	88.9%	"	--	--	"	
Cobalt	"	0.0710	---	0.00100	"	"	0.000440	"	88.2%	"	--	--	"	
Cadmium	"	0.0690	---	0.00100	"	"	ND	"	86.2%	"	--	--	12/01/08 16:46	
Chromium	"	0.0731	---	0.00100	"	"	ND	"	91.4%	"	--	--	"	
Barium	"	0.325	---	0.0100	"	"	0.254	"	89.5%	"	--	--	"	
Vanadium	"	0.0729	---	0.00100	"	"	0.000300	"	90.7%	"	--	--	12/04/08 16:23	
Zinc	"	0.0749	---	0.0100	"	"	ND	"	93.7%	"	--	--	"	
Thallium	"	0.0767	---	0.00100	"	"	ND	"	95.9%	"	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

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

TestAmerica Seattle

QC Batch: 8K26042

Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (8K26042-PS1)			QC Source: BRK0304-01					Extracted: 11/26/08 16:58						
Beryllium	EPA 6020	0.0917	---		ug/ml	1x	0.0000100	0.0995	92.1%	(80-120)	--	--	12/01/08 16:40	
Antimony	"	0.0488	---		"	"	0.000120	0.0510	95.5%	"	--	--	"	
Silver	"	0.0918	---		"	"	0.000250	0.100	91.6%	"	--	--	"	
Arsenic	"	0.103	---		"	"	0.00854	0.0995	94.5%	"	--	--	"	
Barium	"	0.344	---		"	"	0.254	0.100	90.1%	"	--	--	"	
Lead	"	0.0961	---		"	"	-0.00106	"	96.6%	"	--	--	"	
Cadmium	"	0.0904	---		"	"	0.0000100	"	90.4%	"	--	--	"	
Zinc	"	0.0902	---		"	"	0.00289	"	86.9%	"	--	--	"	
Vanadium	"	0.0858	---		"	"	0.000300	"	85.5%	"	--	--	"	
Selenium	"	0.0911	---		"	"	0.000210	"	90.9%	"	--	--	"	
Nickel	"	0.0902	---		"	"	0.00136	0.0995	89.3%	"	--	--	"	
Chromium	"	0.0968	---		"	"	-0.000330	0.100	96.6%	"	--	--	"	
Copper	"	0.0884	---		"	"	0.000330	"	87.6%	"	--	--	"	

QC Batch: 8K26043

Water Preparation Method: EPA 3010A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K26043-BLK1)			Extracted: 11/26/08 17:02											
Potassium	EPA 6010B	ND	---	3.00	mg/l	1x	--	--	--	--	--	--	11/28/08 14:02	
Calcium	"	ND	---	0.750	"	"	--	--	--	--	--	--	"	
Magnesium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Sodium	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Iron	"	ND	---	0.150	"	"	--	--	--	--	--	--	"	
Aluminum	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
LCS (8K26043-BS1)			Extracted: 11/26/08 17:02											
Magnesium	EPA 6010B	4.01	---	0.500	mg/l	1x	--	5.00	80.2%	(80-120)	--	--	11/28/08 14:06	
Aluminum	"	5.35	---	0.250	"	"	--	"	107%	"	--	--	"	
Sodium	"	4.92	---	0.250	"	"	--	"	98.4%	"	--	--	"	
Iron	"	5.20	---	0.150	"	"	--	"	104%	"	--	--	"	
Calcium	"	4.62	---	0.750	"	"	--	"	92.4%	"	--	--	"	
Potassium	"	9.26	---	3.00	"	"	--	10.0	92.6%	"	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

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

TestAmerica Seattle

QC Batch: 8K26043

Water Preparation Method: EPA 3010A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8K26043-DUP1)			QC Source: BRK0304-01					Extracted: 11/26/08 17:02						
Iron	EPA 6010B	2.31	---	0.150	mg/l	1x	ND	--	--	--		(30)	11/28/08 14:14	
Calcium	"	57.1	---	0.750	"	"	ND	--	--	--		(25)	"	
Aluminum	"	ND	---	0.250	"	"	ND	--	--	--	NR	"	"	
Magnesium	"	20.8	---	0.500	"	"	ND	--	--	--		(30)	"	
Sodium	"	29.6	---	0.250	"	"	ND	--	--	--		"	"	
Potassium	"	ND	---	3.00	"	"	ND	--	--	--		"	"	
Matrix Spike (8K26043-MS1)			QC Source: BRK0304-01					Extracted: 11/26/08 17:02						
Aluminum	EPA 6010B	5.24	---	0.250	mg/l	1x	ND	5.00	105%	(80-137)	--	--	11/28/08 14:10	
Iron	"	7.35	---	0.150	"	"	ND	"	147%	(80-125)	--	--	"	M1
Calcium	"	61.7	---	0.750	"	"	ND	"	1230%	(70-137)	--	--	"	M1
Magnesium	"	24.8	---	0.500	"	"	ND	"	496%	(76-129)	--	--	"	M1
Sodium	"	35.4	---	0.250	"	"	ND	"	707%	(74-144)	--	--	"	M1
Potassium	"	11.6	---	3.00	"	"	ND	10.0	116%	(75-127)	--	--	"	
Post Spike (8K26043-PS1)			QC Source: BRK0304-01					Extracted: 11/26/08 17:02						
Potassium	EPA 6010B	12.0	---		ug/ml	1x	0.0299	10.0	120%	(75-125)	--	--	11/28/08 14:18	
Magnesium	"	24.4	---		"	"	-0.0146	5.00	487%	"	--	--	"	S3
Sodium	"	35.0	---		"	"	-0.627	"	713%	"	--	--	"	S3
Aluminum	"	5.54	---		"	"	-0.133	"	113%	"	--	--	"	
Calcium	"	60.7	---		"	"	-0.0166	"	1210%	"	--	--	"	S3
Iron	"	7.59	---		"	"	-0.0174	"	152%	"	--	--	"	S3

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

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

TestAmerica Seattle

QC Batch: 8L01020

Water Preparation Method: EPA 7470A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8L01020-BLK1)										Extracted: 12/01/08 12:36				
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	12/03/08 11:37	
LCS (8L01020-BS1)										Extracted: 12/01/08 12:36				
Mercury	EPA 7470A	0.00496	---	0.000200	mg/l	1x	--	0.00500	99.2%	(80-120)	--	--	12/03/08 11:39	
LCS Dup (8L01020-BSD1)										Extracted: 12/01/08 12:36				
Mercury	EPA 7470A	0.00503	---	0.000200	mg/l	1x	--	0.00500	101%	(80-120)	1.33%	(20)	12/03/08 11:42	
Matrix Spike (8L01020-MS1)										QC Source: BRK0304-01				
										Extracted: 12/01/08 12:36				
Mercury	EPA 7470A	0.00494	---	0.000200	mg/l	1x	ND	0.00500	98.8%	(75-125)	--	--	12/03/08 11:44	
Matrix Spike Dup (8L01020-MSD1)										QC Source: BRK0304-01				
										Extracted: 12/01/08 12:36				
Mercury	EPA 7470A	0.00498	---	0.000200	mg/l	1x	ND	0.00500	99.6%	(75-125)	0.809%	(20)	12/03/08 11:47	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 12:29

Organochlorine Pesticides by EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25012

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K25012-BLK1)										Extracted: 11/25/08 11:55				
Aldrin	EPA 8081A	ND	---	0.0500	ug/l	1x	--	--	--	--	--	--	12/02/08 11:02	
alpha-BHC	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
delta-BHC [2C]	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
4,4'-DDD	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
4,4'-DDE	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
4,4'-DDT	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	0.160	"	"	--	--	--	--	--	--	"	
Endrin ketone	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
Methoxychlor [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	

Surrogate(s): TCX

Recovery: 81.8%

Limits: 10-120% "

12/02/08 11:02

Decachlorobiphenyl [2C]

93.9%

10-142% "

"

LCS (8K25012-BS1)

Extracted: 11/25/08 11:55

Aldrin	EPA 8081A	0.124	---	0.0800	ug/l	1x	--	0.125	98.9%	(76-120)	--	--	12/02/08 11:19	
alpha-BHC	"	0.161	---	0.0400	"	"	--	"	129%	(55-150)	--	--	"	
beta-BHC	"	0.150	---	0.0400	"	"	--	"	120%	(76-120)	--	--	"	
delta-BHC [2C]	"	0.156	---	0.100	"	"	--	"	125%	(58-121)	--	--	"	L1
gamma-BHC (Lindane)	"	0.130	---	0.0400	"	"	--	"	104%	(70-120)	--	--	"	
alpha-Chlordane	"	0.134	---	0.0400	"	"	--	"	107%	(80-120)	--	--	"	
gamma-Chlordane	"	0.133	---	0.0400	"	"	--	"	106%	(76-120)	--	--	"	
4,4'-DDD	"	0.268	---	0.0400	"	"	--	0.250	107%	(75-120)	--	--	"	
4,4'-DDE	"	0.279	---	0.0800	"	"	--	"	112%	(70-122)	--	--	"	
4,4'-DDT	"	0.311	---	0.0800	"	"	--	"	124%	(52-130)	--	--	"	
Dieldrin	"	0.290	---	0.0800	"	"	--	"	116%	(80-120)	--	--	"	
Endosulfan I	"	0.154	---	0.0200	"	"	--	0.125	123%	(76-126)	--	--	"	
Endosulfan II	"	0.268	---	0.0800	"	"	--	0.250	107%	(71-126)	--	--	"	
Endosulfan sulfate	"	0.255	---	0.100	"	"	--	"	102%	(69-120)	--	--	"	
Endrin	"	0.140	---	0.0800	"	"	--	"	55.9%	(69-126)	--	--	"	L2

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

Organochlorine Pesticides by EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25012

Water Preparation Method: EPA 3520C

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

LCS (8K25012-BS1)

Extracted: 11/25/08 11:55

Endrin aldehyde	EPA 8081A	0.492	---	0.160	ug/l	1x	--	0.250	197%	(52-128)	--	--	12/02/08 11:19	L1
Endrin ketone	"	0.367	---	0.0800	"	"	--	"	147%	(16-150)	--	--	"	
Heptachlor	"	0.180	---	0.0800	"	"	--	0.125	144%	(62-141)	--	--	"	L1
Heptachlor epoxide	"	0.146	---	0.0400	"	"	--	"	117%	(80-120)	--	--	"	
Methoxychlor [2C]	"	1.24	---	0.500	"	"	--	1.25	99.2%	(70-123)	--	--	"	

Surrogate(s): TCX Recovery: 80.1% Limits: 10-120% " 12/02/08 11:19
Decachlorobiphenyl [2C] 98.8% 10-142% " "

LCS Dup (8K25012-BSD1)

Extracted: 11/25/08 11:55

Aldrin	EPA 8081A	0.112	---	0.0800	ug/l	1x	--	0.125	89.7%	(76-120)	9.76%	(20)	12/02/08 11:38	
alpha-BHC	"	0.147	---	0.0400	"	"	--	"	118%	(55-150)	8.73%	"	"	
beta-BHC	"	0.137	---	0.0400	"	"	--	"	110%	(76-120)	8.55%	"	"	
delta-BHC [2C]	"	0.138	---	0.100	"	"	--	"	111%	(58-121)	12.0%	"	"	
gamma-BHC (Lindane)	"	0.119	---	0.0400	"	"	--	"	95.0%	(70-120)	9.21%	"	"	
alpha-Chlordane	"	0.123	---	0.0400	"	"	--	"	98.1%	(80-120)	8.85%	"	"	
gamma-Chlordane	"	0.113	---	0.0400	"	"	--	"	90.5%	(76-120)	16.1%	"	"	
4,4'-DDD	"	0.260	---	0.0400	"	"	--	0.250	104%	(75-120)	3.33%	"	"	
4,4'-DDE	"	0.264	---	0.0800	"	"	--	"	106%	(70-122)	5.45%	"	"	
4,4'-DDT	"	0.311	---	0.0800	"	"	--	"	124%	(52-130)	0.154%	"	"	
Dieldrin	"	0.268	---	0.0800	"	"	--	"	107%	(80-120)	7.66%	"	"	
Endosulfan I	"	0.144	---	0.0200	"	"	--	0.125	115%	(76-126)	6.95%	"	"	
Endosulfan II	"	0.254	---	0.0800	"	"	--	0.250	101%	(71-126)	5.49%	"	"	
Endosulfan sulfate	"	0.253	---	0.100	"	"	--	"	101%	(69-120)	0.886%	"	"	
Endrin	"	0.0516	---	0.0800	"	"	--	"	20.6%	(69-126)	92.1%	(30)	"	L2, R2
Endrin aldehyde	"	0.460	---	0.160	"	"	--	"	184%	(52-128)	6.70%	"	"	L1
Endrin ketone	"	0.430	---	0.0800	"	"	--	"	172%	(16-150)	15.8%	(20)	"	L1
Heptachlor	"	0.159	---	0.0800	"	"	--	0.125	127%	(62-141)	12.4%	"	"	
Heptachlor epoxide	"	0.130	---	0.0400	"	"	--	"	104%	(80-120)	11.3%	"	"	
Methoxychlor [2C]	"	1.27	---	0.500	"	"	--	1.25	101%	(70-123)	2.29%	"	"	

Surrogate(s): TCX Recovery: 75.9% Limits: 10-120% " 12/02/08 11:38
Decachlorobiphenyl [2C] 90.0% 10-142% " "

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 12:29

Organochlorine Pesticides by EPA Method 8081A - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8L03015

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8L03015-BLK1)										Extracted: 12/03/08 12:34				
Endrin [2C]	EPA 8081A	ND	---	0.0800	ug/l	1x	--	--	--	--	--	--	12/05/08 13:10	
Surrogate(s):	TCX [2C]	Recovery:	74.7%	Limits: 10-120%		"								12/05/08 13:10
	Decachlorobiphenyl [2C]		87.8%	10-142%		"								"
LCS (8L03015-BS1)										Extracted: 12/03/08 12:34				
Endrin [2C]	EPA 8081A	0.227	---	0.0800	ug/l	1x	--	0.250	90.8%	(69-126)	--	--	12/05/08 13:29	
Surrogate(s):	TCX [2C]	Recovery:	80.7%	Limits: 10-120%		"								12/05/08 13:29
	Decachlorobiphenyl [2C]		91.8%	10-142%		"								"
LCS Dup (8L03015-BSD1)										Extracted: 12/03/08 12:34				
Endrin [2C]	EPA 8081A	0.231	---	0.0800	ug/l	1x	--	0.250	92.6%	(69-126)	1.96%	(30)	12/05/08 13:47	
Surrogate(s):	TCX [2C]	Recovery:	78.0%	Limits: 10-120%		"								12/05/08 13:47
	Decachlorobiphenyl [2C]		90.6%	10-142%		"								"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 12:29

Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25012

Water Preparation Method: EPA 3520C

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

Blank (8K25012-BLK2)

Extracted: 11/25/08 11:55

Aroclor 1016	EPA 8082	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	11/27/08 16:07	
Aroclor 1221	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1262	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1268	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	

Surrogate(s): TCX

Recovery: 89.6%

Limits: 36-134% "

11/27/08 16:07

Decachlorobiphenyl

98.4%

15-124% "

"

LCS (8K25012-BS2)

Extracted: 11/25/08 11:55

Aroclor 1016	EPA 8082	3.32	---	0.500	ug/l	1x	--	2.50	133%	(42-161)	--	--	11/27/08 16:24	
Aroclor 1260	"	2.95	---	0.500	"	"	--	"	118%	(68-142)	--	--	"	

Surrogate(s): TCX

Recovery: 76.6%

Limits: 36-134% "

11/27/08 16:24

Decachlorobiphenyl

89.2%

15-124% "

"

LCS Dup (8K25012-BSD2)

Extracted: 11/25/08 11:55

Aroclor 1016	EPA 8082	3.61	---	0.500	ug/l	1x	--	2.50	144%	(42-161)	8.14% (30)		11/27/08 16:40	
Aroclor 1260	"	3.35	---	0.500	"	"	--	"	134%	(68-142)	12.8% "		"	

Surrogate(s): TCX

Recovery: 75.4%

Limits: 36-134% "

11/27/08 16:40

Decachlorobiphenyl

95.1%

15-124% "

"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

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

TestAmerica Seattle

QC Batch: 8K28011

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K28011-BLK1)										Extracted: 11/28/08 11:03				
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	11/28/08 14:46	
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	"	0.200	---	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	"	"	--	--	--	--	--	--	"	

C

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
 12/09/08 12:29

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

TestAmerica Seattle

QC Batch: 8K28011

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K28011-BLK1)										Extracted: 11/28/08 11:03				
Hexachlorobutadiene	EPA 8260B	ND	---	2.50	ug/l	1x	--	--	--	--	--	--	11/28/08 14:46	
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		Recovery: 119%		Limits: 76-138%		"							11/28/08 14:46	
Toluene-d8		107%		80-120%		"							"	
4-BFB		104%		80-120%		"							"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

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

TestAmerica Seattle

QC Batch: 8K28011

Water Preparation Method: EPA 5030B

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

LCS (8K28011-BS1)

Extracted: 11/28/08 11:03

Benzene	EPA 8260B	40.6	---	0.200	ug/l	1x	--	40.0	102%	(80-120)	--	--	11/28/08 12:39	
Chlorobenzene	"	36.6	---	0.200	"	"	--	"	91.5%	"	--	--	"	
1,1-Dichloroethene	"	38.0	---	0.200	"	"	--	"	95.1%	"	--	--	"	
Methyl tert-butyl ether	"	42.3	---	1.00	"	"	--	"	106%	"	--	--	"	
Toluene	"	36.3	---	0.200	"	"	--	"	90.8%	(75-125)	--	--	"	
Trichloroethene	"	38.1	---	0.200	"	"	--	"	95.2%	(80-120)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 107% Limits: 76-138% "</i>														
<i>Toluene-d8 98.0% 80-120% "</i>														
<i>4-BFB 97.2% 80-120% "</i>														

LCS Dup (8K28011-BSD1)

Extracted: 11/28/08 11:03

Benzene	EPA 8260B	40.6	---	0.200	ug/l	1x	--	40.0	102%	(80-120)	0.0246% (20)		11/28/08 13:07	
Chlorobenzene	"	37.4	---	0.200	"	"	--	"	93.6%	"	2.27%	"	"	
1,1-Dichloroethene	"	36.8	---	0.200	"	"	--	"	91.9%	"	3.40%	"	"	
Methyl tert-butyl ether	"	42.0	---	1.00	"	"	--	"	105%	"	0.593%	"	"	
Toluene	"	36.4	---	0.200	"	"	--	"	91.0%	(75-125)	0.220%	"	"	
Trichloroethene	"	37.3	---	0.200	"	"	--	"	93.2%	(80-120)	2.12%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 108% Limits: 76-138% "</i>														
<i>Toluene-d8 99.8% 80-120% "</i>														
<i>4-BFB 97.7% 80-120% "</i>														

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

Semivolatile Organic Compounds by EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25013

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K25013-BLK1)										Extracted: 11/25/08 14:55				
Acenaphthene	EPA 8270C	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	12/01/08 10:08	
Acenaphthylene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Aniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzoic Acid	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Benzyl alcohol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Carbazole	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chloroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Methylphenol (o-Cresol)	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dibenzofuran	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3,3'-Dichlorobenzidine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

Semivolatile Organic Compounds by EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25013

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K25013-BLK1)										Extracted: 11/25/08 14:55				
2,4-Dinitrotoluene	EPA 8270C	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	12/01/08 10:08	
2,6-Dinitrotoluene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorocyclopentadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4,5-Trichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	

Surrogate(s):	2-FBP	Recovery:	83.6%	Limits:	44-120%	"	12/01/08 10:08
	2-FP		74.2%		16-120%	"	"
	Nitrobenzene-d5		84.6%		38-120%	"	"
	Phenol-d6		75.0%		16-120%	"	"
	p-Terphenyl-d14		77.6%		24-146%	"	"
	2,4,6-TBP		77.2%		32-135%	"	"

TestAmerica Seattle

Kate Haney

Kate Haney, 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:
12/09/08 12:29

Semivolatile Organic Compounds by EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K25013

Water Preparation Method: EPA 3520C

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

LCS (8K25013-BS1)

Extracted: 11/25/08 14:55

Acenaphthene	EPA 8270C	73.0	---	10.0	ug/l	1x	--	100	73.0%	(57-120)	--	--	12/01/08 10:33	
4-Chloro-3-methylphenol	"	88.1	---	10.0	"	"	--	"	88.1%	(51-124)	--	--	"	
2-Chlorophenol	"	71.2	---	10.0	"	"	--	"	71.2%	(40-120)	--	--	"	
1,4-Dichlorobenzene	"	63.1	---	10.0	"	"	--	"	63.1%	(50-120)	--	--	"	
2,4-Dinitrotoluene	"	88.2	---	10.0	"	"	--	"	88.2%	(66-130)	--	--	"	
4-Nitrophenol	"	71.5	---	10.0	"	"	--	"	71.5%	(42-148)	--	--	"	
N-Nitrosodi-n-propylamine	"	84.7	---	10.0	"	"	--	"	84.7%	(49-120)	--	--	"	
Pentachlorophenol	"	109	---	10.0	"	"	--	"	109%	(67-151)	--	--	"	
Phenol	"	73.1	---	10.0	"	"	--	"	73.1%	(28-120)	--	--	"	
Pyrene	"	72.0	---	10.0	"	"	--	"	72.0%	(54-134)	--	--	"	
1,2,4-Trichlorobenzene	"	73.9	---	10.0	"	"	--	"	73.9%	(52-120)	--	--	"	

Surrogate(s):	2-FBP	Recovery:	77.6%	Limits:	44-120%	"							12/01/08 10:33	
	2-FP		70.0%		16-120%	"							"	
	Nitrobenzene-d5		81.8%		38-120%	"							"	
	Phenol-d6		70.1%		16-120%	"							"	
	p-Terphenyl-d14		67.3%		24-146%	"							"	
	2,4,6-TBP		94.0%		32-135%	"							"	

LCS Dup (8K25013-BSD1)

Extracted: 11/25/08 14:55

Acenaphthene	EPA 8270C	73.0	---	10.0	ug/l	1x	--	100	73.0%	(57-120)	0.0274% (25)		12/01/08 13:12	
4-Chloro-3-methylphenol	"	95.5	---	10.0	"	"	--	"	95.5%	(51-124)	8.11%	"	"	
2-Chlorophenol	"	74.8	---	10.0	"	"	--	"	74.8%	(40-120)	4.96% (37)	"	"	
1,4-Dichlorobenzene	"	65.9	---	10.0	"	"	--	"	65.9%	(50-120)	4.34% (32)	"	"	
2,4-Dinitrotoluene	"	87.7	---	10.0	"	"	--	"	87.7%	(66-130)	0.546% (25)	"	"	
4-Nitrophenol	"	73.1	---	10.0	"	"	--	"	73.1%	(42-148)	2.13%	"	"	
N-Nitrosodi-n-propylamine	"	89.4	---	10.0	"	"	--	"	89.4%	(49-120)	5.42%	"	"	
Pentachlorophenol	"	110	---	10.0	"	"	--	"	110%	(67-151)	1.37%	"	"	
Phenol	"	78.3	---	10.0	"	"	--	"	78.3%	(28-120)	6.87% (48)	"	"	
Pyrene	"	74.5	---	10.0	"	"	--	"	74.5%	(54-134)	3.36% (25)	"	"	
1,2,4-Trichlorobenzene	"	77.8	---	10.0	"	"	--	"	77.8%	(52-120)	5.17%	"	"	

Surrogate(s):	2-FBP	Recovery:	77.6%	Limits:	44-120%	"							12/01/08 13:12	
	2-FP		76.8%		16-120%	"							"	
	Nitrobenzene-d5		87.5%		38-120%	"							"	
	Phenol-d6		75.7%		16-120%	"							"	
	p-Terphenyl-d14		70.2%		24-146%	"							"	
	2,4,6-TBP		95.4%		32-135%	"							"	

TestAmerica Seattle

Kate Haney

Kate Haney, 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:

12/09/08 12:29

CERTIFICATION SUMMARY

TestAmerica Seattle

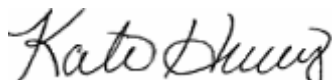
Method	Matrix	Nelac	Washington
EPA 6010B	Water	X	X
EPA 6020	Water	X	X
EPA 7470A	Water	X	X
EPA 8081A	Water	X	X
EPA 8082	Water	X	X
EPA 8260B	Water	X	X
EPA 8270C	Water	X	X
NWTPH-HCID	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, 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:
 12/09/08 12:29

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- H8 - The sample was extracted past the holding time.
- L - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- L1 - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
- L2 - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2 - The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R2 - The RPD exceeded the acceptance limit.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- S3 - Post digestion spike is out of acceptance limits for this analyte

Laboratory Reporting Conventions:

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

TestAmerica Seattle

Kate Haney

Kate Haney, 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.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
11922 E. First Ave, Spokane, WA 99206-5302
9405 SW Nimbus Ave, Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
509-924-9200 FAX 924-9290
503-906-9200 FAX 906-9210
907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BRK0304**

CLIENT: Goldar Associates		INVOICE TO:		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.										
REPORT TO: Douglas Morall		P.O. NUMBER:												
ADDRESS: 18300 NE Union Hill Rd, Suite 200 Redmond WA 98052														
PHONE: 425-853-0777 FAX: 425-852-5496														
PROJECT NAME: Landsburg Mine		PRESERVATIVE												
PROJECT NUMBER: 923-1000-002-2273		HCl <input checked="" type="checkbox"/> HNO ₃ <input checked="" type="checkbox"/>												
SAMPLED BY: Ian Young		REQUESTED ANALYSES												
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOCs	SVOCs	PCBs	Chloro Retenes	TPH	TAM total	TAM dissolved						
1 LMW-11-1108	11/25/08 @ 1015	X	X	X	X	X	X	X	Hold all Filtered	W	11			-01
2 LMW-10-1108	@ 1215	↓	↓	↓	↓	↓	↓	↓	unpreserved samples	↓	↓			-02
3 LMW-9-1108	@ 1400	↓	↓	↓	↓	↓	↓	↓	pending initial	↓	↓			-03
4 LMW-9-1108-D	@ 1405	↓	↓	↓	↓	↓	↓	↓	analytical results	↓	↓			-04
5														
6														
7														
8														
9														
10														
RELEASED BY: Ian Young	FIRM: GAI	DATE: 11/25/08	TIME: 1705	RECEIVED BY: Colette Weaver	FIRM: TAL-Seattle	DATE: 11.25.08	TIME: 1705							
PRINT NAME:				PRINT NAME: Colette Weaver										
RELEASED BY:				RECEIVED BY:										
PRINT NAME:				PRINT NAME:										
ADDITIONAL REMARKS:								TEMP: 10.8c W/0 PAGE OF						

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____

(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

Date: 11-25-08Date: 11-25Date: 11-25Work Order No. BRK0304Time: 1705Time: 1749Time: 1735

Client: _____

Initials: CWInitials: CWInitials: CW

Project: _____

Container Type:

COC Seals:

Packing Material _____

☒ Cooler☐ Ship Container _____ Sign By _____☒ Bubble Bags ☐ Styrofoam☐ Box☐ On Bottles _____ Date _____☐ Foam Packs☐ None/Other _____☒ None☐ None/Other _____

Refrigerant:

☐ Gel Ice Pack _____☒ Loose Ice _____☐ None/Other _____

Received Via: Bill# _____

☐ Fed Ex ☒ Client☐ UPS ☐ TA Courier☐ DHL ☐ Mid Valley☐ Servoy ☐ TDP☐ GS ☐ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

(circle one)

Temperature Blank? 10.8 °C or NA 8.8Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? Y or N _____Metals Preserved? Y or N or NA _____Provided by TA? Y or N _____Client QAPP Preserved? Y or N or NA _____Correct Type? Y or N _____Adequate Volume? Y or N _____#Containers match COC? Y or N _____(for tests requested) Water VOAs: Headspace? Y or N or NA _____IDs/time/date match COC? Y or N _____

Comments: _____

Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

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-2-1108

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date _____ **Time** _____

Media Water **Station** _____

Sample Type: grab time composite space composite

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

SWL – 6.21 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
2 – 1 Liter	PCBs/Pest	Glass Amber	none
2 – 1 Liter	SVOCs	Glass Amber	none

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-3-1108

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date _____ **Time** _____

Media Water **Station** _____

Sample Type: grab time composite space composite

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

SWL – 11.92 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
2 – 1 Liter	PCBs/Pest	Glass Amber	none
2 – 1 Liter	SVOCs	Glass Amber	none

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-4-1108

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date _____ **Time** _____

Media Water **Station** _____

Sample Type: grab time composite space composite

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

SWL – 7.66 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
2 – 1 Liter	PCBs/Pest	Glass Amber	none
2 – 1 Liter	SVOCs	Glass Amber	none

Sampler (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-5-1108

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date _____ **Time** _____

Media Water **Station** _____

Sample Type: grab time composite space composite

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

SWL – 13.45 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
2 – 1 Liter	PCBs/Pest	Glass Amber	none
2 – 1 Liter	SVOCs	Glass Amber	none

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-6-1108

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date _____ **Time** _____

Media Water **Station** _____

Sample Type: grab time composite space composite

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

SWL – 29.42 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
2 – 1 Liter	PCBs/Pest	Glass Amber	none
2 – 1 Liter	SVOCs	Glass Amber	none

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-7-1108

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date _____ **Time** _____

Media Water **Station** _____

Sample Type: grab time composite space composite

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

SWL – 213.33 ft below TOC

(~23 gal/total well vol)

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
3 – 40 mL	VOA	VOA Vial	HCl
1 – 500 ml	Metals	HDPE	HNO3 (filter)
1 – 500 ml	Metals	HDPE	None (non)
2 – 1 Liter	TPH-HCID	Glass Amber	HCl
2 – 1 Liter	PCBs/Pest	Glass Amber	none
2 – 1 Liter	SVOCs	Glass Amber	none

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-8-1108

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date _____ **Time** _____

Media Water **Station** _____

Sample Type: grab time composite space composite

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

SWL – 3.65 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
2 – 1 Liter	PCBs/Pest	Glass Amber	none
2 – 1 Liter	SVOCs	Glass Amber	none

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-9-1108

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date _____ **Time** _____

Media Water **Station** _____

Sample Type: grab time composite space composite

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

SWL – 99.22 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
2 – 1 Liter	PCBs/Pest	Glass Amber	none
2 – 1 Liter	SVOCs	Glass Amber	none

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-10-1108

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date _____ **Time** _____

Media Water **Station** _____

Sample Type: grab time composite space composite

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

SWL – 0 ft below TOC (bottom at 286 ft, 4-in casing)

Sand Pack Interval – 258 to 289 ft bgs

Packer Depth – NA

Sample Description _____

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

SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation / Amount
3 – 40 mL	VOA	VOA Vial	HCl
1 – 500 ml	Metals	HDPE	HNO3 (filter)
1 – 500 ml	Metals	HDPE	None (non)
2 – 1 Liter	TPH-HCID	Glass Amber	HCl
2 – 1 Liter	PCBs/Pest	Glass Amber	none
2 – 1 Liter	SVOCs	Glass Amber	none

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

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

Site Location Ravensdale, WA **Sample ID** LMW-11-1108

Sampling Location Groundwater Monitoring Well End of dedicated sampling tube

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

Type of Sampler Dedicated Pump Grundfos or QED Bladder

Date _____ **Time** _____

Media Water **Station** _____

Sample Type: grab time composite space composite

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

SWL – 157.07 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

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
2 – 1 Liter	PCBs/Pest	Glass Amber	none
2 – 1 Liter	SVOCs	Glass Amber	none

Sampler (signature) _____ **Date** _____

Supervisor (signature) _____ **Date** _____