

Table 1

Sample Information
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington

EPA Sample ID	Sample Location	Latitude	Longitude	Matrix	Sample Date	Sample Analyses						
						Asbestos (EPA Methods 100.2 and modified 100.2)	Total TAL Metals (EPA Methods 6010, 7470 and/or 7471)	Dissolved TAL Metals (EPA Methods 6010 and 7470)	SPLP TAL Metals (EPA Methods modified 1312, 6010 and 7470)	DI Leach TAL Metals (EPA Methods modified 1312, 6010 and 7470)	Total Suspended Solids (EPA Method 160.2)	Geotechnical Methods ⁽¹⁾
12070001	SC-01	48.91088949	-122.2516293	Surface Water	7/18/2012		X	X				
12070002	SC-02	48.91055968	-122.2875291	Surface Water	7/18/2012		X	X				
12070003	DW-01	48.91170853	-122.2884016	Ground Water	7/18/2012		X	X				
12070004	DW-02	48.91944148	-122.292066	Ground Water	7/18/2012		X	X				
12070005	DW-03	48.91965357	-122.303115	Ground Water	7/18/2012		X	X				
12070006	PMW-01	48.912786	-122.278713	Ground Water	7/19/2012	X	X	X				
12070007	PMW-02	48.912169	-122.283135	Ground Water	7/19/2012	X	X	X				
12070008	PMW-03	48.91065	-122.286787	Ground Water	7/19/2012	X	X	X				
12070009	PMW-04	48.909347	-122.280412	Ground Water	7/19/2012	X	X	X				
12070010	HMW-01	48.910596	-122.28776	Ground Water	7/19/2012		X	X				
12070011	HMW-02	48.918892	-122.304161	Ground Water	7/19/2012		X	X				
12070012	HMW-12 (Field Duplicate of HMW-02)	48.918892	-122.304161	Ground Water	7/19/2012		X	X				
12070013	HMW-03	48.905478	-122.304034	Ground Water	7/19/2012		X	X				
12070014	FB-01	n/a	n/a	Field Blank	7/19/2012	X						
12070021	SC-01	48.91088949	-122.2516293	Sediment	7/18/2012		X		X	X		X
12070022	SC-02	48.91055968	-122.2875291	Sediment	7/18/2012		X		X	X		X
12070023	DM-01	48.91920026	-122.3040732	Sediment	7/18/2012		X		X	X		X
12070024	DM-02	48.91920026	-122.3040732	Sediment	7/18/2012		X		X	X		
12101001	PMW-01	48.912786	-122.278713	Ground Water	10/9/2012	X	X	X			X	
12101002	PMW-02	48.912169	-122.283135	Ground Water	10/9/2012	X	X	X			X	
12101003	PMW-05 (Field Duplicate of PMW-02)	48.912169	-122.283135	Ground Water	10/9/2012	X	X	X			X	
12101004	FB-02	n/a	n/a	Field Blank	10/9/2012	X	X				X	
12101005	RB-02	n/a	n/a	Rinsate Blank	10/9/2012	X	X	X			X	
12101006	PMW-04	48.912786	-122.278713	Ground Water	10/9/2012	X	X	X			X	
12101007	HMW-02	48.912169	-122.283135	Ground Water	10/9/2012	X	X	X			X	
12101008	HMW-01	48.910596	-122.28776	Ground Water	10/10/2012	X	X	X			X	
12101009	HMW-03	48.905478	-122.304034	Ground Water	10/10/2012	X	X	X			X	
12101010	PMW-03	48.91065	-122.286787	Ground Water	10/10/2012	X	X	X			X	

Note: (1) Geotechnical methods include soil classification (ASTM Method D2487), moisture content (ASTM Method D2216), Atterberg Limits (ASTM Method D4318), and Grain Size Distribution (ASTM Methods D-421/422).

Key:

DI = deionized
EPA = United States Environmental Protection Agency
ID = identification
n/a = not applicable
SPLP = Synthetic Precipitate Leaching Procedure
TAL = Target Analyte List

Table 2

**Monitoring Well Information
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington**

Well ID	Property/ Location	Installed By	Date Installed	Surface Completion	Construction	Sandpack Material	Borehole Total Depth (feet bgs)	Well Total Depth (feet bgs)	Screened Interval (feet bgs)
HMW-01	Goodwin Road / Swift Creek	Whatcom County Health Department	3/26/2009	Flush mount	2-inch PVC	n/a	at least 21.5	Approx. 20	10 - 20
HMW-02 ⁽¹⁾	Oat Coles Road / Swift Creek	Whatcom County Health Department	3/26/2009	Flush mount	2-inch PVC	n/a	at least 21.5	Approx. 20	10 - 20
HMW-03	Oat Coles Road / Massey Road	Whatcom County Health Department	3/26/2009	Flush mount	2-inch PVC	n/a	at least 21.5	Approx. 20	10 - 20
PMW-01	Great Western Lumber	Whatcom County Public Works	3/8/2010	Flush mount	2-inch PVC	Monterey #2/12	61.5	Approx. 60	50 - 60
PMW-02	Great Western Lumber	Whatcom County Public Works	3/8/2010	Flush mount	2-inch PVC	Monterey #2/12	41.5	Approx. 40	30 - 40
PMW-03	Great Western Lumber	Whatcom County Public Works	3/9/2010	Flush mount	2-inch PVC	Monterey #2/12	61	Approx. 60	40 - 60
PMW-04	Great Western Lumber	Whatcom County Public Works	3/9/2010	Flush mount	2-inch PVC	Monterey #2/12	41.5	Approx. 40	30 - 40

Note: (1) Well is damaged.

Key:

bgs = below ground surface

ID = identification

n/a = not available

PVC = polyvinyl chloride

Table 3

Groundwater Field Data
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington

Well ID	Date	Activity	Screened Interval (feet bgs)	Measured Total Depth of Well (feet below TOIC)	Depth to Water (feet below TOIC)	Purge/Sample or Development Method and Equipment	Total Volume Purged/ Developed (Gallons)	Flow Rate (Liters per Minute)	Maximum Turbidity (NTU)	Final Measurements					
										Turbidity (NTU)	Temp (deg C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mv)
HMW-01	7/19/12	Sample	10 - 20	19.6	12.56	low-flow, peristaltic	n/a	n/a	n/a	n/a	14.3	6.97	0.232	11.27	437
	10/10/12	Sample		n/a	16	low-flow, peristaltic	1.8	0.2 - 0.27	18.6	1.0	15.45	8.47	0.321	n/a	192
HMW-02	7/19/12	Sample	10 - 20	19.4	2.93	low-flow, peristaltic	n/a	n/a	n/a	n/a	5.92	6.42	n/a	10.41	202.1
	10/9/12	Sample		n/a	5.11	low-flow, peristaltic	5	0.6 - 0.8	34.4	0.0	11.38	6.62	0.285	26.74	-127
HMW-03	7/19/12	Sample	10 - 20	19.3	4.16	low-flow, peristaltic	n/a	n/a	n/a	n/a	15.46	6.51	0.277	10.15	131.7
	10/10/12	Sample		n/a	5.29	low-flow, peristaltic	2.8	0.6	0	0.0	11.64	6.39	0.266	36.45	-114
PMW-01	7/19/12	Sample	50 - 60	61	49.93	bailer	3 well volumes	n/a	n/a	n/a	14.2	6.29	0.71	12.35	291.41
	9/26/12	Develop		59.82	52.75	surge and pump, submersible	405	10	visually very turbid	15.5	11.77	6.5	0.549	21.05	n/a
	10/9/12	Sample		n/a	53.38	low-flow, electric submersible ⁽¹⁾	19	0.7 - 2.7	201	4.1	13.23	6.67	0.553	n/a	147
PMW-02	7/19/12	Sample	30 - 40	41.5	23.22	bailer	3 well volumes	n/a	n/a	n/a	12.4	6.4	0.448	12.8	406
	9/26/12	Develop		39.9	26.22	surge and pump, submersible	335	10	visually very turbid	10.3	10.2	6.24	0.401	8.05	n/a
	10/9/12	Sample		n/a	26.78	low-flow, electric submersible	4.5	0.3 - 0.56	141	2.6	13.68	6.46	0.394	8.05	161
PMW-03	7/19/12	Sample	40 - 60	60	17	low-flow, peristaltic	n/a	n/a	n/a	n/a	18.04	7.2	0.21	11.14	220.6
	9/27/12	Develop		59.9	19.06	surge and pump, submersible	590	10	visually very turbid	12.1	11.04	6.76	0.365	7.05	n/a
	10/10/12	Sample		n/a	19.41	low-flow, peristaltic	2.5	0.12 - 0.14	67.2	9.6	10.23	6.52	0.382	n/a	276
PMW-04	7/19/12	Sample	30 - 40	40	27.44	bailer	3 well volumes	n/a	n/a	n/a	15.3	7.02	0.284	14.3	245.4
	9/25/12	Develop		40.04	28.43	surge and pump, submersible	735	9 - 12	visually very turbid	15	9.85	6.34	0.265	7.96	n/a
	10/9/12	Sample		n/a	28.94	low-flow, electric submersible	4	0.7 - 0.8	3.4	0.0	10.66	6.19	0.270	23.22	202

Note: (1) Difficulties maintaining steady low pump rate

Key:

bgs = below ground surface
deg C = degrees Celsius
DO = dissolved oxygen
ID = identification
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
n/a = not available
NTU = nephelometric turbidity units
ORP = oxidation reduction potential
TOIC = top of inner casing

Table 4

**July 2012 Water Asbestos Results
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington**

EPA Sample ID	Sample Location	Sample Volume (ml)	Fibers > 0.5 micron				Fibers > 10 micron			
			Asbestos Type	Fibers Detected	Analytical Sensitivity (MFL)	Concentration (MFL)	Asbestos Type	Fibers Detected	Analytical Sensitivity (MFL)	Concentration (MFL)
Maximum Contaminant Level						n/a				7
12070006	PMW-01	0.1	Chrysotile	102	190	20,000	Chrysotile	33	6.9	230
12070007	PMW-02	1	Chrysotile	120	97	12,000	None Detected	ND	6.9	<6.9
12070008	PMW-03	5	Chrysotile	101	9.7	980	Chrysotile	3	0.78	2.3
12070009	PMW-04	1	Chrysotile	104	32	3,400	Chrysotile	2	6.9	14
12070014	Field Blank	100	Chrysotile	5	0.05	0.24	None Detected	ND	0.05	<0.05

Note: A **BOLD** result indicates a positive detection.

Key:

- bgs = below ground surface
- EPA = United States Environmental Protection Agency
- ID = identification
- µm = micrometers
- MFL = millions of fibers per liter
- ml = milliliters
- n/a = not applicable
- ND = not detected

Table 5

July 2012 Water Total TAL Metals Results
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington

EPA Sample ID:		12070001	12070002	12070003	12070004	12070005	12070006	12070007	12070008	12070009	12070010	12070011	12070012	12070013
Sample Location:		SC-01	SC-02	DW-01	DW-02	DW-03	PMW-01	PMW-02	PMW-03	PMW-04	HMW-01	HMW-02	HMW-12 (Field Duplicate)	HMW-03
Sample Type:		Swift Creek	Swift Creek	Domestic Well	Domestic Well	Domestic Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well
Location:	MCL ⁽¹⁾	Landslide	Goodwin Road	St. Innocent Church	Gelwick Property	Parker Property	Great Western Lumber	Great Western Lumber	Great Western Lumber	Great Western Lumber	ROW	ROW	ROW	ROW
Total TAL Metals (µg/L)														
Aluminum	50-200 ⁽²⁾	520	129	3 U	10.7	4.5	7,590	1,860	715	1,950	4.4	784	516	75.4
Antimony	6	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
Arsenic	10	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
Barium	2,000	55.7	23.5	12.6	23.2	21	74	23.6	19.8	19.2	2	113	65.5	67.4
Beryllium	4	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Cadmium	5	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
Calcium	--	9,120	7,220	15,800	17,400	42,200	14,400	5,940	17,800	7,860	1,760	10,800	10,200	13,000
Chromium	100	22.7	2.6	7.2	2 U	2 U	40.6	19.5	5.8	12	2 U	2.4	2 U	2 U
Cobalt	--	4.8	1 U	1 U	1 U	1 U	13.1	2.6	1.3	1 U	1 U	1 U	1 U	1 U
Copper	1,300	2 U	2 U	66.8	4.7	4.6	22.4	4.5	4	4.7	2 U	2 U	2 U	2 U
Iron	300 ⁽²⁾	3,010	382	52	214	20 U	16,400	3,330	1,810	2,970	20 U	11,000	5,800	9,580
Lead	15	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
Magnesium	--	51,200	26,600	52,500	47,600	9,330	91,000	55,700	8,310	31,800	18,700	27,500	27,100	19,700
Manganese	50 ⁽²⁾	66.6	8.9	1.1	118	5.7	406	104	53	49.1	0.6 U	290	261	514
Mercury	2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	--	116	16.3	2 U	6.2	2 U	209	51.2	12.6	36.7	2 U	2.4	2 U	2 U
Potassium	--	1,060	724	554	1,060	2,010	1,480	624	1,120	544	715	1,870	1,900	1,750
Selenium	50	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Silver	100 ⁽²⁾	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
Sodium	--	3,780	4,320	3,490	7,240	6,100	5,160	2,600	11,100	3,790	3,480	12,100	12,100	6,230
Thallium	2	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
Vanadium	--	2.9	2 U	2.3	2 U	2 U	24.3	6.2	2.4	7	2 U	5	3.6	2
Zinc	5,000 ⁽²⁾	3.3	2 U	214	56.5	7.6	78.8	9.9	155	15	2 U	3.7	3.2	2 U

Note: (1) Primary Drinking Water Standard unless otherwise indicated.

(2) Secondary Drinking Water Standard

A **BOLD** result indicates a positive detection.

A highlighted number indicates that the result exceeds the MCL.

Key:

EPA = United States Environmental Protection Agency

ID = identification

µg/L = micrograms per liter

MCL = maximum contaminant level

ROW = right of way

TAL = target analyte list

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

Table 6

**July 2012 Water Dissolved TAL Metals Results
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington**

EPA Sample ID:		12070001	12070002	12070003	12070004	12070005	12070006	12070007	12070008	12070009	12070010	12070011	12070012	12070013
Sample Location:		SC-01	SC-02	DW-01	DW-02	DW-03	PMW-01	PMW-02	PMW-03	PMW-04	HMW-01	HMW02GW	HMW-12 (Field Duplicate)	HMW-03
Sample Type:		Swift Creek	Swift Creek	Domestic Well	Domestic Well	Domestic Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well
Location:	MCL ⁽¹⁾	Landslide	Goodwin Road	St. Innocent Church	Gelwick Property	Parker Property	Great Western Lumber	Great Western Lumber	Great Western Lumber	Great Western Lumber	ROW	ROW	ROW	ROW
Dissolved TAL Metals (ug/L)														
Aluminum	50-200 ⁽²⁾	5.9	8.3	3 U	3 U	3 U	3 U	3 U	6.9	3 U	5.5	11.1	9.3	5.8
Antimony	6	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
Arsenic	10	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
Barium	2,000	51.6	22.1	12.1	23.2	21.6	13.8	9.1	12.6	4.9	2.1	47.7	45.9	67.6
Beryllium	4	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Cadmium	5	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
Calcium	--	8,990	7,010	15,800	17,800	43,100	12,200	5,460	17,300	7,450	1,780	10,400	9,930	13,200
Chromium	100	2 U	2 U	5.9	2 U	2 U	6.8	11.7	2 U	5.5	2 U	2 U	2 U	2 U
Cobalt	--	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
Copper	1,300	2 U	2 U	40.6	2 U	2.7	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Iron	300 ⁽²⁾	20 U	20 U	20 U	41.9	20 U	20 U	20 U	20 U	20 U	20 U	3,380	3,240	9,240
Lead	15	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
Magnesium	--	37,100	24,500	52,300	48,000	9,400	80,300	52,600	7,750	29,600	18,700	26,800	26,000	19,600
Manganese	50 ⁽²⁾	2.3	2.2	1.6	120	1.5	0.6	1.1	5	0.6	0.6 U	257	247	508
Mercury	2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	--	5.3	4.6	2 U	2.4	2 U	9.6	15.6	2 U	10.2	2 U	2 U	2 U	2 U
Potassium	--	1,080	652	562	1,020	2,090	679	506	1,050	400 U	740	1,780	1,770	1,740
Selenium	50	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Silver	100 ⁽²⁾	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
Sodium	--	3,780	4,260	3,480	7,310	6,120	4,780	2,460	11,000	3,600	3,500	12,100	11,700	6,310
Thallium	2	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
Vanadium	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2.2	2.1	2 U
Zinc	5,000 ⁽²⁾	2 U	2.2	222	37.6	7.2	5.5	2.3	83.7	6.7	2 U	2 U	2 U	2 U

Note: (1) Primary Drinking Water Standard unless otherwise indicated.

(2) Secondary Drinking Water Standard

A **BOLD** result indicates a positive detection.

A highlighted number indicates that the result exceeds the MCL.

Key:

EPA = United States Environmental Protection Agency

ID = identification

µg/L = micrograms per liter

MCL = maximum contaminant level

ROW = right of way

TAL = target analyte list

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

Table 7

**July 2012 Sediment Total TAL Metals Results
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington**

EPA Sample ID:	12070021	12070022	12070023	12070024
Sample Location:	SC-01	SC-02	DM-01	DM-02 (Field Duplicate)
Sample Type:	Swift Creek Sediment	Swift Creek Sediment	Dredge Material	Dredge Material
Location:	Landslide	Goodwin Road	Parker Property	Parker Property
Sediment TAL Metals (mg/kg)				
Aluminum	599 JL	3410 JL	4010 JL	5040 JL
Antimony	2 UJL	2 UJL	2 UJL	2 UJL
Arsenic	3.9 U	4 U	4 U	4 U
Barium	0.6	16.6	28.2	32
Beryllium	0.1 U	0.1 U	0.1 U	0.1 U
Cadmium	0.5	0.3	0.3	0.3
Calcium	311 JK	1,370 JK	2,380 JK	3,150 JK
Chromium	361	321	274	253
Cobalt	76.2	87.8	85	73.5
Copper	0.6 U	6.9	7.6	11.8
Iron	45,800	45,200	43,300	40,800
Lead	2 U	2 U	2 U	2 U
Magnesium	24,200	21,400	200,000	171,000
Manganese	788	727	659	634
Nickel	1,770	1,920	1,880	1,660
Potassium	79.4 U	163	229	229
Selenium	5.9 U	6 U	6 U	6 U
Silver	0.5 U	0.5 U	0.5 U	0.5 U
Sodium	79.4 U	78.7 U	78.8 U	79.5 U
Thallium	2 U	2 U	2 U	2 U
Vanadium	7.5	16.6	17.9	21.2
Zinc	22.9	33.8	33.8	34.1
Mercury	0.02 U	0.01	0.02 U	0.01 U

Note: A **BOLD** result indicates a positive detection.

Key:

EPA = United States Environmental Protection Agency

ID = identification

JK = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

mg/kg = micrograms per kilogram

TAL = target analyte list

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJL = The analyte was not detected above the reported sample quantitation limit.

However, the reported quantitation limit is approximate with a low bias and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Table 8

**July 2012 Sediment SPLP TAL Metals Results
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington**

EPA Sample ID:	12070021	12070022	12070023	12070024
Sample Location:	SC-01	SC-02	DM-01	DM-02 (Field Duplicate)
Sample Type:	Swift Creek Sediment	Swift Creek Sediment	Dredge Material	Dredge Material
Location:	Landslide	Goodwin Road	Parker Property	Parker Property
Sediment SPLP TAL Metals (mg/L)				
Aluminum	0.02 U	0.02 U	0.02 U	0.02 U
Antimony	0.01 U	0.01 U	0.01 U	0.01 U
Arsenic	0.01 U	0.01 U	0.01 U	0.01 U
Barium	0.002 U	0.0028	0.0066	0.0027
Beryllium	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Calcium	3.56	3.96	4.32	2.9
Chromium	0.002 U	0.002 U	0.002 U	0.002 U
Cobalt	0.001 U	0.001 U	0.001 U	0.001 U
Copper	0.01 UJL	0.01 UJL	0.01 UJL	0.01 UJL
Iron	0.01 U	0.01 U	0.01 U	0.01 U
Lead	0.01 U	0.01 U	0.01 U	0.01 U
Magnesium	13.1	4.48	12.1	15.2
Manganese	0.0006 U	0.0006 U	0.0006 U	0.0006 U
Mercury	0.001 U	0.001 U	0.001 U	0.001 U
Nickel	0.002 U	0.002 U	0.002 U	0.002 U
Potassium	0.1 U	0.1 U	0.1	0.1 U
Selenium	0.02 U	0.02 U	0.02 U	0.02 U
Silver	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	1.1 U	6.1	7.4	7.6
Thallium	R	R	R	R
Vanadium	0.002 U	0.002 U	0.002 U	0.002 U
Zinc	0.01 U	0.02	0.017	0.023

Note: A **BOLD** result indicates a positive detection.

Key:

EPA = United States Environmental Protection Agency

ID = identification

mg/L = micrograms per liter

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

SPLP = synthetic precipitate leaching procedure

TAL = target analyte list

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJL = The analyte was not detected above the reported sample quantitation limit.

However, the reported quantitation limit is approximate with a low bias and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Table 9

**July 2012 Sediment Deionized Water Leach TAL Metals Results
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington**

EPA Sample ID:	12070021	12070022	12070023	12070024
Sample Location:	SC-01	SC-02	DM-01	DM-02 (Field Duplicate)
Sample Type:	Swift Creek Sediment	Swift Creek Sediment	Dredge Material	Dredge Material
Location:	Landslide	Goodwin Road	Parker Property	Parker Property
Sediment Deionized Water Leach Metals (mg/L)				
Aluminum	0.006	0.009	0.023	0.02
Antimony	0.01 U	0.01 U	0.01 U	0.01 U
Arsenic	0.01 U	0.01 U	0.01 U	0.01 U
Barium	0.002 U	0.0035	0.0079	0.0046
Beryllium	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Calcium	3.67	3.56	3.51	3.22
Chromium	0.002 U	0.002 U	0.002 U	0.002 U
Cobalt	0.001 U	0.001 U	0.001 U	0.001 U
Copper	0.01 U	0.01 U	0.01 U	0.01 U
Iron	0.01 U	0.02	0.02	0.01
Lead	0.01 U	0.01 U	0.01 U	0.01 U
Magnesium	17.9	4.92	11.1	14.1
Manganese	0.0006 U	0.0006 U	0.0006 U	0.0006 U
Mercury	0.001 U	0.001 U	0.001 U	0.001 U
Nickel	0.002 U	0.002 U	0.002 U	0.002 U
Potassium	0.1	0.1 U	0.1 U	0.1
Selenium	0.02 U	0.02 U	0.02 U	0.02 U
Silver	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	1.1	6.5	6.1	8.7
Thallium	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium	0.002 U	0.002 U	0.002 U	0.002 U
Zinc	0.02	0.009	0.012	0.008

Note: A **BOLD** result indicates a positive detection.

Key:

EPA = United States Environmental Protection Agency

ID = identification

mg/L = micrograms per liter

TAL = target analyte list

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

Table 10

**October 2012 Water Asbestos Results
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington**

EPA Sample ID	Sample Location	Sample Volume (ml)	Fibers > 0.5 micron				Fibers > 10 micron			
			Asbestos Type	Fibers Detected	Analytical Sensitivity (MFL)	Concentration (MFL)	Asbestos Type	Fibers Detected	Analytical Sensitivity (MFL)	Concentration (MFL)
Maximum Contaminant Level						n/a				7
12101001	PMW-01	25	Chrysotile	139	3.9	540	Chrysotile	2	0.19	0.39
12101002	PMW-02	10	Chrysotile	92	9.7	890	ND	ND	0.49	< 0.49
12101003	PMW-05 (Duplicate of PMW-02)	10	Chrysotile	116	1.9	230	ND	ND	0.49	< 0.49
12101004	FB02	50	Chrysotile	2	0.19	0.39	ND	ND	0.19	< 0.19
12101005	RB02	50	Chrysotile	23	0.19	4.5	ND	ND	0.19	< 0.19
12101006	PMW-04	25	Chrysotile	96	0.19	19	Chrysotile	1	0.19	0.19
12101007	HMW-02	1	Chrysotile	5	4.9	24	ND	ND	4.9	< 4.9
12101008	HMW-01	25	ND	ND	0.19	< 0.19	ND	ND	0.19	< 0.19
12101009	HMW-03	1	ND	ND	4.9	< 4.9	ND	ND	4.9	< 4.9
12101010	PMW-03	25	ND	ND	0.19	< 0.19	ND	ND	0.19	< 0.19

Note: A **BOLD** result indicates a positive detection.

Key:

EPA = United States Environmental Protection Agency

ID = identification

MFL = million fibers per liter

ml = milliliters

n/a = not applicable

ND = none detected

Table 11

October 2012 Water Total TAL Metals Results
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington

EPA Sample ID:		12101001	12101002	12101003	12101004	12101005	12101006	12101007	12101008	12101009	12101010
Sample Location:	MCL ⁽¹⁾	PMW-01	PMW-02	PMW-05 (Field Duplicate of PMW-02)	FB-02	RB-02	PMW-04	HMW-02	HMW-01	HMW-03	PMW-03
Sample Type:		Monitoring Well	Monitoring Well	Monitoring Well	Field Blank	Rinsate Blank	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well
Location:		Great Western Lumber	Great Western Lumber	Great Western Lumber	n/a	n/a	Great Western Lumber	Health Dept. (ROW)	Health Dept. (ROW)	Health Dept. (ROW)	Great Western Lumber
Total TAL Metals (µg/L)											
Aluminum	50-200 ⁽²⁾	81.3	148	84.9	5.8	15.7	7.5	51.8	2 U	18.6	198
Antimony	6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Arsenic	10	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Barium	2,000	13.8	10.2	9.6	2 U	2 U	5.7	41.7	4	71.8	11.5
Beryllium	4	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Cadmium	5	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
Calcium	--	11,100	5,160	4,980	50 U	61.1	7,390	8,980	3,570	13,500	11,100
Chromium	100	8	16.8	17.6	2 U	2 U	6.5	2 U	2 U	2 U	6.5
Cobalt	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Copper	1,300	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Iron	300 ⁽²⁾	155	251	171	20.3	37.3	25.9	2,960	20 U	9,620	344
Lead	15	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Magnesium	--	67,100	50,200	49,300	20 U	20 U	29,000	23,600	37,900	19,500	43,900
Manganese	50 ⁽²⁾	4.2	5.7	4.3	0.9	1.1	0.6 U	224	0.6 U	527	15.6
Mercury	2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	--	17	27.5	27.4	2 U	2 U	17.2	4.3	2 U	5.8	7.1
Potassium	--	602	482	441	400 U	400 U	400 U	1,710	1,160	1,790	498
Selenium	50	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Silver	100 ⁽²⁾	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	--	4,040	2,460	2,430	200 U	200 U	3,540	11,000	6,940	6,270	3,960
Thallium	2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vanadium	--	2 U	2.4	2.3	2 U	2 U	2 U	2.7	2 U	2 U	2.3
Zinc	5,000 ⁽²⁾	2 U	2.1	2.4	2 U	2 U	2 U	2 U	2 U	2 U	2.3

Note: (1) Primary Drinking Water Standard unless otherwise indicated.

(2) Secondary Drinking Water Standard

A **BOLD** result indicates a positive detection.

A highlighted number indicates that the result exceeds the MCL.

Key:

EPA = United States Environmental Protection Agency

ID = identification

MCL = maximum contaminant level

mg/L = micrograms per liter

n/a = not applicable

ROW = right of way

TAL = target analyte list

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

Table 12

October 2012 Water Dissolved TAL Metals Results
Swift Creek / Sumas Mountain Asbestos Site
Whatcom County, Washington

EPA Sample ID:		12101001	12101002	12101003	12101004	12101005	12101006	12101007	12101008	12101009	12101010
Sample Location:	MCL ⁽¹⁾	PMW-01	PMW-02	PMW-05 (Field Duplicate of PMW-02)	FB-02	RB-02	PMW-04	HMW-02	HMW-01	HMW-03	PMW-03
Sample Type:		Monitoring Well	Monitoring Well	Monitoring Well	Field Blank	Rinsate Blank	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well
Location:		Great Western Lumber	Great Western Lumber	Great Western Lumber	n/a	n/a	Great Western Lumber	Health Dept. (ROW)	Health Dept. (ROW)	Health Dept. (ROW)	Great Western Lumber
Dissolved TAL Metals (ug/L)											
Aluminum	50-200 ⁽²⁾	2 U	2 U	2.2	n/a	3.8	2 U	4.7	3.2	3.6	2 U
Antimony	6	10 U	10 U	10 U	n/a	10 U	10 U	10 U	10 U	10 U	10 U
Arsenic	10	20 U	20 U	20 U	n/a	20 U	20 U	20 U	20 U	20 U	20 U
Barium	2,000	13.6	9	9	n/a	2 U	5.7	41	4.2	69.7	8.7
Beryllium	4	0.4 U	0.4 U	0.4 U	n/a	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Cadmium	5	0.5 U	0.5 U	0.5 U	n/a	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Calcium	--	11,400	5,120	5,050	n/a	50 U	7,630	8,890	3,590	13,200	10,700
Chromium	100	5.9	13.1	13.2	n/a	2 U	6.6	2 U	2 U	2 U	6.2
Cobalt	--	2 U	2 U	2 U	n/a	2 U	2 U	2 U	2 U	2 U	2 U
Copper	1,300	4 U	4 U	4 U	n/a	4 U	4 U	4 U	4 U	4 U	4 U
Iron	300 ⁽²⁾	20 U	20 U	20 U	n/a	20 U	20 U	2,860	20 U	9,200	20 U
Lead	15	10 U	10 U	10 U	n/a	10 U	10 U	10 U	10 U	10 U	10 U
Magnesium	--	68,600	49,700	49,000	n/a	20 U	29,600	23,200	37,500	19,100	43,600
Manganese	50 ⁽²⁾	0.6 U	1	0.9	n/a	0.6 U	0.6 U	221	0.6 U	509	0.6 U
Mercury	2	0.2 U	0.2 U	0.2 U	n/a	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	--	14.9	24.1	23.5	n/a	2 U	17.8	4.2	2 U	5.2	5.4
Potassium	--	607	423	400 U	n/a	400 U	400 U	1,670	1,170	1,790	460
Selenium	50	20 U	20 U	20 U	n/a	20 U	20 U	20 U	20 U	20 U	20 U
Silver	100 ⁽²⁾	2 U	2 U	2 U	n/a	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	--	4,130	2,450	2,390	n/a	200 U	3,620	10,800	6,870	6,130	3,930
Thallium	2	10 U	10 U	10 U	n/a	10 U	10 U	10 U	10 U	10 U	10 U
Vanadium	--	2 U	2 U	2 U	n/a	2 U	2 U	2	2 U	2	2 U
Zinc	5,000 ⁽²⁾	2 U	2 U	2 U	n/a	2 U	2 U	2 U	2 U	2 U	2 U

Note: (1) Primary Drinking Water Standard unless otherwise indicated.

(2) Secondary Drinking Water Standard

A **BOLD** result indicates a positive detection.

A highlighted number indicates that the result exceeds the MCL.

Key:

EPA = United States Environmental Protection Agency

ID = identification

MCL = maximum contaminant level

µg/L = micrograms per liter

n/a = not applicable / not analyzed

TAL = target analyte list

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

Table 13

October 2012 Water Total Suspended Solids Results
 Swift Creek / Sumas Mountain Asbestos Site
 Whatcom County, Washington

EPA Sample ID:	12101001	12101002	12101003	12101004	12101005	12101006	12101007	12101008	12101009	12101010
Sample Location:	PMW-01	PMW-02	PMW-05 (Field Duplicate of PMW-02)	FB-02	RB-02	PMW-04	HMW-02	HMW-01	HMW-03	PMW-03
Sample Type:	Monitoring Well	Monitoring Well	Monitoring Well	Field Blank	Rinsate Blank	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well
Location:	Great Western Lumber	Great Western Lumber	Great Western Lumber	n/a	n/a	Great Western Lumber	Health Dept. (ROW)	Health Dept. (ROW)	Health Dept. (ROW)	Great Western Lumber
Total Suspended Solids (mg/L)										
Total Suspended Solids	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7	5 U

Note: **Bold results are greater than the sample quantitation limit.**

Key:

EPA = United States Environmental Protection Agency

ID = identification

mg/L = milligrams per liter

n/a = not applicable

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.