

TABLES

Table 1
Test Pit Exploration and Soil Sampling Summary
Department of State Lands, Bend, Oregon

Test Pit		Material at Base of Excavation		Suspect Material found in Test Pit										Report Date: April 2009 / Revised August, 2009									
Top of Debris (FT)	Base of Debris (FT)	Total Depth (FT)	Material	Sample No.	Depth (FT)	PID (ppm)	Sheen Test	NMTPH-ClD	NMTPH-DX	Total Trace Metals	Polynuclear Aromatic Hydrocarbons	Volatile Organic Compounds	Polyhalogenated Biphenyls	Total Organic Carbon	Organochlorine Pesticides								
TP-1	na	4.6	Basalt Rock	None																			
TP-1A1	0.7	10.0	Brown Sand	Glass/plastic/aluminum containers, documents dated 1968, scrap metal, dimensional wood, fiberglass, sheet flooring, wall covering, barbed wire, tires	S-1	2.2	0	None	X	X	X	X	X	X									
TP-2	1.0	9.3	Vesicular Basalt	Glass/plastic/aluminum containers, documents dated 1969-1972, aerosol cans, scrap metal, dimensional wood, agricultural/medical beds, tires, empty motor oil containers	S-1	10.0	0	None	X	X	X	X	X	X									
TP-3	2.0	>8.0	Debris	Glass/plastic/aluminum containers, cleaning products, scrap metal, fire extinguisher, tires	S-2	9.0	0	None	X	X	X	X	X	X									
TP-3A	2.0	>8.0	Brown and Gray pumice sands	Glass/plastic/aluminum containers, motor water heater, agricultural/medical containers, documents dated 1972	S-1	2.3	0	None	X	X	X	X	X	X									
TP-4	1.5	8.5	Vesicular Basalt	Glass/plastic/aluminum containers, scrap boxes of debris, appliances, Christmas, sheet flooring, tires	S-2	8.5	0	None	X	X	X	X	X	X									
TP-5	1.0	10.0	Brown Sand no debris	Glass/plastic/aluminum containers, carpet, dimensional wood, remnant flooring, fiberglass, tires, metal auto-body parts.	S-1	1.5	0	None	X	X	X	X	X	X									
TP-6	0	9.5	Grey pumice sand	Glass/plastic containers, documents dated 1971, aerosol cans, scrap metal, dimensional wood, sheet flooring, tires, oil filters, washing machine.	S-2	12.5	0	None	X	X	X	X	X	X									
TP-7	1.5	>9.0	Debris	Glass/aluminum containers, scrap metal, bedspreads	S-2	11.0	0	None	X	X	X	X	X	X									
TP-7A	1.0	11.0	Vesicular Basalt	Glass/aluminum containers, scrap metals, dimensional wood, barbed wire, large animal bones, old oil filters, tires, automotive batteries	S-1	1.3	0	None	X	X	X	X	X	X									
TP-8	1.5	12.0	Vesicular Basalt	Glass/aluminum containers, carpeting, documents dated 1971, scrap metal, dimensional wood, wall covering, sheet flooring, composition shingles, animal springs, motor parts, tires, washing machine.	S-1	1.0	0	None	X	X	X	X	X	X									
TP-9	1.5	>17	Debris	Glass/plastic/aluminum containers, documents dated 1969-1970, sheet flooring, composition shingles, tires, No debris collected in this 15-20 sample Moved 5 east to collect a sample 10-15 to identify landfill debris	S-1	1.3	0	None	X	X	X	X	X	X									
TP-10	na	15.0	Basalt Rock	None	VP-2/S-2	15-20	0	None	X	X	X	X	X	X									
TP-10A	na	3.0	Basalt Rock	French 25' long, scattered glass/aluminum containers, burnt ridge roofing, cement board, empty tin bucket of brake fluid, minor amounts of animal bones	S-1	2.0	0	None	X	X	X	X	X	X									
TP-11	na	0.5	Basalt Rock	None	S-1	2.0	0	None	X	X	X	X	X	X									
TP-11A	na	6.0	Basalt Rock	None	S-2	4.5	0	None	X	X	X	X	X	X									
TP-12	na	2.5	Basalt Rock	Scattered glass bottles	S-2	4.5	0	None	X	X	X	X	X	X									
TP-12A	1.5	4.0	Basalt Rock	French 25' long, scattered glass/aluminum containers, burnt ridge roofing, cement board, empty tin bucket of brake fluid, minor amounts of animal bones	S-1	1.3	0	None	X	X	X	X	X	X									
TP-13	1.5	4.0	Basalt Rock	French 30' long, scattered glass/aluminum containers, cement board, ridge roofing material	S-1	1.3	0	None	X	X	X	X	X	X									
TP-14	1.5	14.0	Vesicular Basalt	Glass/plastic containers, batteries, washing machine, metal, documents dated 1968, scrap metal, dimensional wood, fiberglass, tires, empty containers of antifreeze	S-1	1.0	0	None	X	X	X	X	X	X									
TP-15	na	4.0	Basalt Rock	None	S-2	16.0	0.3	None	X	X	X	X	X	X									
TP-16	0.7	4.0	Basalt Rock	Glass/aluminum containers, burnt dimensional wood, cement board, minor amounts of bones	S-1	2.0	0	None	X	X	X	X	X	X									
TP-17	0.7	7.5	10.0	Glass/aluminum containers, melted materials, ceramics, cement board, pipe insulation, felt paper, metal auto-body parts.	S-1	1.2	0	None	X	X	X	X	X	X									
TP-18	1.0	>4.5	Concrete and boulders	Glass/aluminum containers, melted materials, ceramics, cement board, pipe insulation, felt paper, metal auto-body parts.	S-2	3.5	0	None	X	X	X	X	X	X									
TP-18A	1.0	10.0	12.0	Glass/plastic/aluminum containers, some melted material	S-1	2.0	0	None	X	X	X	X	X	X									
TP-19	1.5	10.0	Basalt Rock	Glass/plastic/aluminum containers, documents dated 1968, rug, soap, metal, dimensional wood, gypsum board, cement roofing, metal auto-body parts.	S-1	1.5	0	None	X	X	X	X	X	X									
TP-20	1.3	9.0	Vesicular Basalt	Sheet flooring, padding board, composition shingles, oil filters, metal auto-body parts, tires.	S-1	1.3	0	None	X	X	X	X	X	X									
TP-21	1.0	8.0	Brown sand no debris	Scattered glass bottles, metal auto-body parts, roof, cleaning products, metal auto-body parts.	S-2	1.0	0	None	X	X	X	X	X	X									
TP-22	na	1.0	Basalt Rock	Glass containers, carpet, corroded electrical component, scrap metal, dimensional wood, chain link fence, sheet flooring, barbed wire, tires, radiator, battery cables.	S-1	0.1	0	None	X	X	X	X	X	X									
TP-22A	1.5	7.5	Basalt Rock	None	S-2	9.0	0	None	X	X	X	X	X	X									
TP-23	1.5	10.0	Basalt Rock	Glass/plastic/aluminum containers, cleaning products, oil filter, scrap dimensional wood, laminated paneling, metal auto-body parts.	S-1	1.3	0.1	None	X	X	X	X	X	X									
TP-24	1.5	11.0	Basalt Rock	Glass/plastic/aluminum containers, documents dated 1972, medical syringe, carpet, scrap metal, dimensional wood, tires, empty container of WD-40	S-1	7.5	0	None	X	X	X	X	X	X									
TP-24A	na	1.5	Basalt Rock	Glass/plastic/aluminum containers, documents dated 1970, washing machine, empty fall can of lacquer, scrap metal, roofing material, metal auto-body parts, oil filters, empty motor oil containers, tires.	S-2	10.0	0	None	X	X	X	X	X	X									
TP-25	na	3.0	Basalt Rock	None	S-1	2.0	0	None	X	X	X	X	X	X									
TP-25A	na	2.5	Basalt Rock	None	S-2	12.0	0	None	X	X	X	X	X	X									
TP-25B	na	1.5	Basalt Rock	None	S-1	2.0	0	None	X	X	X	X	X	X									
TP-25C	2.0	>3.0	Debris	Define Eastern boundary of debris 55' west of TP-25	S-1	0.1	0	None	X	X	X	X	X	X									
TP-26	2.0	>16.0	16.0	Glass/plastic/aluminum containers, documents dated 1970, washing machine, empty fall can of lacquer, scrap metal, roofing material, metal auto-body parts, oil filters, empty motor oil containers, tires.	S-1	1.5	0	None	X	X	X	X	X	X									
TP-27	2.0	>15.0	15.0	Glass/plastic/aluminum containers, documents dated 1970, scrap metal, dimensional wood, oil filters, empty containers of antifreeze, tires	S-1	1.5	0	None	X	X	X	X	X	X									
TP-27A	na	1.5	Basalt Rock	None	S-1	2.0	0	None	X	X	X	X	X	X									
TP-28	na	4.0	Basalt Rock	None	S-2	4.0	0	None	X	X	X	X	X	X									
TP-29	na	na	Basalt Rock	None	S-2	5.0	0	None	X	X	X	X	X	X									
TP-30	na	na	Basalt Boulders	None	S-1	2.0	0	None	X	X	X	X	X	X									
TP-30	na	na	Basalt Boulders	None	S-2	5.5	0	None	X	X	X	X	X	X									

Notes:
 See Appendix C-1 for test pit logs. See Appendix C-2 for vapor probe logs.
 na = not applicable
 H = Baseline with 10-foot reach was used to excavate test pit.
 S = Sample taken from test pit. Sample location is noted in the log. S-1, S-2, etc., refer to the number of the vapor probe.
 C = French 50' long (located 30' NE of TP-24). Sample pit used to reach test pit located to the previous debris storage location.

Table 3

Individual Bulk Asbestos Sampling & Analysis Summary

Department of State Lands, Stevens Road Tract, Bend, Oregon

PBS Project #: 80416.000, Task 4

Report Date: April 2009

Sample Number	Test Pit	Approximate Sample Collection Depth (FT)	Material Type	Laboratory Result
A001	TP-1A	6.0	Grey sheet floor covering/tan fibrous backing	45% Chrysotile
A002	TP-1A	7.3	Miscellaneous wall covering	NAD
A003	TP-3A	7.7	Built-up roofing	NAD
A004	TP-4A	6.5	Grey sheet floor covering/grey fibrous backing	45% Chrysotile
A005	TP-8	5.3	Grey sheet floor covering/tan fibrous backing	4% / 45% Chrysotile
A006	TP-8	5.5	Composition shingles with green granules	NAD
A007	TP-9	6.3	Beige sheet floor covering/grey fibrous backing	NAD
A008	TP-9	15.3	Multiple layers of composition shingles	NAD
A009	TP-9	15.5	Black sheet floor covering/grey fibrous backing	45% Chrysotile
A010	TP-12A	2.3	Grey cement asbestos board	12% Chrysotile
A011	TP-12A	2.5	Reddish/brown remnant roofing	25% Chrysotile
A012	TP-16	3.3	Grey cement asbestos board	10% Chrysotile
A013	TP-17	2.7	Grey cement asbestos board	10% Chrysotile
A014	TP-17	5.7	Grey fibrous felt-like paper/insulation	50% Chrysotile
A015	TP-17	6.0	Grey air Cell-type pipe insulation	40% Chrysotile
A016	TP-18	3.3	Grey compressed thermal insulating board/paper	65% Chrysotile
A017	TP-18A	1.0	Gypsum board	NAD
A018	TP-18A	1.3	Gypsum board	NAD
A019	TP-18A	4.3	Green cement asbestos board	10% Chrysotile
A020	TP-21	3.3	Tan sheet floor covering	7% Chrysotile
A021	TP-9	16.3	Grey fibrous felt like paper/insulation	55% Chrysotile
A022	TP-9	16.5	Gypsum board	NAD

Notes:

NAD = No Asbestos Detected

See Appendix F-2 for Laboratory Report for Bulk Asbestos Analyses

Table 4

**Positive Asbestos-Containing Material Summary
Department of State Lands, Stevens Road Tract, Bend, Oregon**

**PBS Project #: 80416.000, Task 4
Report Date: April 2009**

Test Pits	Sample Numbers	Asbestos-Containing Materials	Laboratory Results	Comments
TP-1A, -4A, -8, -9, and -21	A001, A004, A005, A009, A020	Sheet Floor Coverings	4% to 45% Chrysotile	Similar flooring materials were observed in TP-5, -6, and -19, however these materials were not sampled. These materials should be considered as asbestos-containing without further testing.
TP-12A, -16, -17, 18A	A010, A012, A013, A019	Cement Asbestos Board (CAB)	10% to 12% Chrysotile	Similar CAB products were observed in TP-20 and scattered throughout the ground surface in the vicinity of TP-11 and -12A. These materials should be considered as asbestos-containing without further testing.
TP-9 and -17	A021 and A014	Felt-like paper/insulation	50% to 55% Chrysotile	This material was observed to be severely degraded and is considered a fully regulated friable material.
TP-17	A015	Air Cell-type pipe insulation	40% Chrysotile	This material was observed to be severely degraded and is considered a fully regulated friable material.
TP-18	A016	Thermal insulating board/liner	65% Chrysotile	This material was observed to be severely degraded and is considered a fully regulated friable material.
TP-12A	A011	Roofing material	25% Chrysotile	This material was observed to be severely degraded and is considered a friable material in its current condition.

Notes:

NAD = No Asbestos Detected

See Appendix F-2 for Laboratory Report for Bulk Asbestos Analyses

Table 5 Vapor Probe Field Monitoring Data Summary Department of State Lands, Stevens Road Tract, Bend, Oregon										PBS Project #: 80416.00, Task 4 Report Date: April 2009	
Sample Location	Date	Methane Gas - CH ₄ (%)	Carbon Dioxide - CO ₂ (%)	Oxygen - O ₂ (%)	Differential Pressure (inches of H ₂ O)	Barometric Pressure ¹	Comments				
VP-1	1/8/2009	0.0	5.5	15.0	0	29.88					
	1/14/2009	0.0	5.4	15.1	0	30.30					
	1/22/2009	0.0	5.6	14.8	0	29.97					
	1/27/2009	0.0	6.7	15.0	0	30.21					
	Average	0.0	5.8	15.0							
VP-2	1/8/2009	0.0	13.4	7.6	0	29.91	At the start of the reading methane read 0.1%				
	1/14/2009	0.0	15.4	4.1	0	30.33	Green stake pulled out, put back in				
	1/22/2009	0.0	18.7	2.0	0	29.97					
	1/27/2009	0.1	16.8	4.6	0	30.21					
	Average	0.0	16.1	4.6							
VP-3	1/8/2009	0.0	13.6	8.0	0	29.91					
	1/14/2009	0.0	13.2	8.5	0	30.30					
	1/22/2009	0.0	13.9	8.1	0	29.97					
	1/27/2009	0.0	16.1	7.3	0	30.21					
	Average	0.0	14.2	8.0							
VP-4	1/8/2009	0.0	13.4	7.8	0	29.91					
	1/14/2009	0.0	17.6	4.1	0	30.30					
	1/22/2009	0.0	18.9	3.1	0	29.97	Green stake removed completely				
	1/27/2009	0.1	19.0	3.4	0	30.21					
	Average	0.0	17.2	4.6							
VP-5	1/8/2009	0.0	0.1	20.2	0	29.88					
	1/14/2009	0.0	0.0	20.2	0	30.33					
	1/22/2009	0.0	0.1	20.0	0	29.97	Green stake removed completely				
	1/27/2009	0.0	0.1	20.4	0	30.18					
	Average	0.0	0.1	20.2							
Three Pines Cave	1/8/2009	0.0	0.0	20.4	0	29.88	Smoke smell inside the cave.				
	1/14/2009	0.0	0.0	20.1	0	30.30	Smoke smell inside the cave.				
	1/22/2009	0.0	0.0	19.8	0	29.97	Smoke smell inside the cave.				
	1/27/2009	0.0	0.0	21.1	0	30.21					
	Average	0.0	0.0	20.4							
Garbage Cave No. 1	1/8/2009	0.0	0.1	20.3	0	29.91					
	1/14/2009	0.0	0.0	20.2	0	30.30					
	1/22/2009	0.0	0.1	19.9	0	29.97					
	1/27/2009	0.0	0.0	21.3	0	30.21					
	Average	0.0	0.1	20.4							
Garbage Cave No. 2	1/8/2009	0.0	0.0	20.5	0	29.88					
	1/14/2009	0.0	0.1	20.1	0	30.33					
	1/22/2009	0.0	0.1	20.2	0	29.97					
	1/27/2009	0.0	0.0	20.3	0	30.21					
	Average	0.0	0.1	20.3							
Davenport Cave	1/8/2009	0.0	0.0	20.6	0	29.88					
	1/14/2009	0.0	0.0	20.1	0	30.33					
	1/22/2009	0.0	0.0	20.3	0	29.97					
	1/27/2009	0.0	0.0	20.5	0	30.18					
	Average	0.0	0.0	20.4							

Notes

1 - Barometric Pressure (BP) in inches of Mercury from the Greenmont Dr. weather station.
 BP Range during Monitoring Period 1/8/09: slight rise (29.88 - 29.91); 1/14/09: slight rise (30.30 - 30.33);
 1/22/09: steady (29.97); 1/27/09: slight fall (29.75 - 29.73)