

APPENDIX H

FIELD SCREENING RESULTS FOR XRF (METALS) AND COLOR TEC (ORGANICS)

Table H-1

**SUMMARY OF XRF FIELD SCREENING RESULTS
COLUMBIA AMERICAN PLATING
PORTLAND, OREGON**

Sample ID	EPA Sample ID	Metal Analysis (mg/kg)																						Run No.	Run Time (seconds)		
		Mn	+/-	Sr	+/-	Zr	+/-	Zn	+/-	Rb	+/-	Pb	+/-	Ni	+/-	Cu	+/-	As	+/-	Co	+/-	Hg	+/-			Cr	+/-
EPA Region 9 PRGs		19,000		100,000		NA		100,000		NA		750		20,000		41,000		1.6		1,900		62		450			
Oregon Cleanup Levels		200,000		NA		NA		NA		NA		2,000		40,000		80,000		3		NA		600		1,500			
BH-01-SS	03-05-0786	ND	--	326	11.0	126	7.8	264	25.0	58.5	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	76	123
BH-01-SS-D	03-05-0786-D	858	320	340	10.0	124	7.3	323	25.0	53.9	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	77	139
BH-01 (03-5 ft bgs)	03-05-0762	585	300	270	9.2	114	7.1	63.1	17.0	61.7	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	106	124
BH-01 (03-5 ft bgs)-D	03-05-0762-D	648	340	308	10.0	132	7.8	63.4	17.0	54.0	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	107	126
BH-01 (08-10 ft bgs)	03-05-0763	656	320	317	10.0	125	7.5	66.4	17.0	60.3	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	108	128
BH-01 (13-15 ft bgs)	03-05-0764	473	300	291	9.4	126	7.2	71.5	17.0	65.8	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	109	131
BH-02-SS	03-05-0787	667	360	295	10.0	135	7.9	159	22.0	75.3	13.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	78	124
BH-02 (03-5 ft bgs)	03-05-0766	561	310	306	10.0	128	7.5	75.8	17.0	65.4	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	110	127
BH-02 (08-10 ft bgs)	03-05-0767	ND	--	326	10.0	134	7.6	71.6	17.0	65.9	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	111	130
BH-02 (13-15 ft bgs)	03-05-0768	ND	--	308	8.8	135	6.8	75.6	15.0	59.8	10.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	112	164
BH-03-SS	03-05-0788	1340	370	293	10.0	122	7.7	179	22.0	83.5	13.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	80	125
BH-03 (03-5 ft bgs)	03-05-0770	814	350	321	11.0	124	7.8	88.2	19.0	63.3	12.0	ND	--	ND	--	ND	--	13.5	8.3	ND	--	ND	--	ND	--	116	124
BH-03 (08-10 ft bgs)	03-05-0771	914	330	322	10.0	124	7.7	71.3	18.0	62.1	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	117	123
BH-03 (13-15 ft bgs)	03-05-0772	617	330	324	10.0	106	7.4	75.1	18.0	52.6	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	118	125
BH-04-SS	03-05-0789	1180	350	302	10.0	115	7.4	192	22.0	90.2	13.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	105	129
BH-04 (03-5 ft bgs)	03-05-0774	1390	360	330	11.0	128	7.9	79.8	19.0	58.9	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	122	123
BH-04 (08-10 ft bgs)	03-05-0775	1090	330	319	10.0	119	7.5	65.4	17.0	70.0	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	123	124
BH-04 (13-15 ft bgs)	03-05-0776	1090	350	328	11.0	126	7.7	70.3	18.0	56.9	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	--	125
BH-05-SS	03-05-0790	658	340	323	11.1	121	7.8	372	29.0	70.3	13.0	23.8	12.0	ND	--	84.1	37.0	ND	--	ND	--	ND	--	ND	--	81	122
BH-05 (03-5 ft bgs)	03-05-0778	795	300	332	9.4	126	6.9	67.0	16.0	60.5	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	137	155
BH-05 (08-10 ft bgs)	03-05-0779	922	320	339	10.0	137	7.6	72.3	17.0	57.4	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	138	--
BH-05 (13-15 ft bgs)	03-05-0780	764	340	357	11.0	138	7.8	62.5	17.0	49.6	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	139	126
BH-06-SS	03-05-0791	661	340	324	10.0	133	7.9	192	23.0	64.9	12.0	29.1	12.0	ND	--	66.8	34.0	ND	--	ND	--	ND	--	ND	--	82	122
BH-06 (03-5 ft bgs)	03-05-0802	836	260	325	8.0	134	6.0	68.3	13.0	67.1	9.3	14.3	8.4	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	140	205
BH-06 (08-10 ft bgs)	03-05-0803	695	290	324	9.1	134	6.8	63.1	15.0	64.3	10.0	15.6	9.6	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	141	156
BH-06 (13-15 ft bgs)	03-05-0804	783	260	333	8.3	134	6.1	69.1	14.0	69.6	9.6	13.5	8.6	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	142	194
BH-06 (13-15 ft bgs)-D	03-05-0804-D	688	280	336	9.0	132	6.6	75.6	15.0	59.2	10.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	143	156
BH-07-SS	03-05-0792	1470	380	314	11.0	122	7.9	540	35.0	66.5	13.0	108	16.0	216	81.0	192	45.0	ND	--	ND	--	ND	--	ND	--	84	122
BH-07 (03-5 ft bgs)	03-05-0798	958	290	341	8.9	133	6.5	84.4	15.0	54.0	9.8	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	144	182
BH-07 (08-10 ft bgs)	03-05-0799	959	320	318	10.0	133	7.6	74.8	17.0	70.4	12.0	25.2	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	145	127
BH-07 (13-15 ft bgs)	03-05-0800	830	310	331	9.6	127	7.1	73.8	16.0	64.3	11.0	16.8	10.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	146	143
BH-08-SS	03-05-0793	1910	380	312	11.0	115	7.7	154	22.0	94.1	13.0	24.8	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	85	124
BH-08 (03-5 ft bgs)	03-05-0782	787	310	321	9.6	135	7.3	77.6	17.0	73.6	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	147	140
BH-08 (08-10 ft bgs)	03-05-0783	1090	340	331	10.0	140	7.9	81.7	18.0	72.3	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	152	123
BH-08 (13-15 ft bgs)	03-05-0784	734	340	338	11.0	136	7.8	63.3	17.0	59.6	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	153	124
BH-09-SS	03-05-0794	1090	290	314	8.9	132	6.7	97.7	16.0	62.3	10.0	ND	--	ND	--	ND	--	ND	--	460	200	ND	--	ND	--	86	167

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**SUMMARY OF XRF FIELD SCREENING RESULTS
COLUMBIA AMERICAN PLATING
PORTLAND, OREGON**

Sample ID	EPA Sample ID	Metal Analysis (mg/kg)																				Run No.	Run Time (seconds)				
		Mn	+/-	Sr	+/-	Zr	+/-	Zn	+/-	Rb	+/-	Pb	+/-	Ni	+/-	Cu	+/-	As	+/-	Co	+/-			Hg	+/-	Cr	+/-
EPA Region 9 PRGs		19,000		100,000		NA		100,000		NA		750		20,000		41,000		1.6		1,900		62		450			
Oregon Cleanup Levels		200,000		NA		NA		NA		NA		2,000		40,000		80,000		3		NA		600		1,500			
BH-09 (03-5 ft bgs)	03-05-0808	734	350	349	11.0	133	7.9	100	19.0	72.6	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	155	125
BH-09 (03-5 ft bgs)-D	03-05-0808-D	1170	340	322	10.0	131	7.6	80.0	18.0	73.8	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	8.5	4.7	ND	--	156	129
BH-09 (08-10 ft bgs)	03-05-0809	806	210	326	6.3	135	4.7	80.1	11.0	60.4	7.2	16.2	6.7	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	157	336
BH-09 (13-15 ft bgs)	03-05-0810	774	270	322	8.6	143	6.6	59.5	14.0	69.7	10.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	158	178
BH-10-SS	03-05-0795	1350	360	325	11.0	128	7.9	103	20.0	62.7	12.0	32.6	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	87	123
BH-10 (03-5 ft bgs)	03-05-0812	749	330	323	10.0	122	7.4	75.9	17.0	61.8	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	159	129
BH-10 (08-10 ft bgs)	03-05-0813	1110	320	341	10.0	130	7.4	63.0	16.0	66.0	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	160	136
BH-10 (13-15 ft bgs)	03-05-0814	828	320	340	10.0	133	7.6	70.5	17.0	73.0	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	161	128
BH-11-SS	03-05-0796	680	340	320	10.0	127	7.5	92.0	18.0	68.2	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	103	134
BH-11 (03-5 ft bgs)	03-05-0816	526	310	324	9.7	118	7.0	56.1	16.0	56.3	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	167	126
BH-11 (03-5 ft bgs)	03-05-0816	684	320	317	10.0	127	7.8	72.3	18.0	64.1	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	179	124
BH-11 (03-5 ft bgs)	03-05-0816	618	290	300	9.7	137	7.5	72.5	17.0	67.4	12.0			ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	188	127
BH-11 (08-10 ft bgs)	03-05-0817	709	330	310	10.0	139	7.9	60.5	17.0	68.9	12.0	ND	--	ND	--	ND	--	13.1	8.2	ND	--	ND	--	ND	--	180	124
BH-11 (08-10 ft bgs)	03-05-0817	1080	280	313	8.8	127	6.6	84.9	16.0	62.3	10.0	18.0	9.7	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	189	169
BH-1 (13-15 ft bgs)	03-05-0818	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
BH-12-SS	03-05-0797	875	320	284	9.5	116	7.2	134	20.0	64.6	11.0	39.3	12.0	ND	--	69.5	32.0	ND	--	ND	--	ND	--	ND	--	104	131
BH-12 (03-5 ft bgs)	03-05-0836	947	280	295	9.2	135	7.2	57.7	16.0	69.4	11.0	18.1	10.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	204	137
BH-12 (03-5 ft bgs)-D	03-05-0836-D	1070	300	304	9.8	126	7.4	70.6	17.0	58.7	11.0	<15.0	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	205	126
BH-12 (08-10 ft bgs)	03-05-0837	853	240	293	7.8	128	6.0	74.3	14.0	65.9	9.4	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	208	187
BH-12 (13-15 ft bgs)	03-05-0838	788	300	328	10.0	127	7.5	91.1	18.0	68.0	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	209	129
BH-13-SS	03-05-0838-D	1090	350	313	10.0	127	7.7	103	19.0	83.4	13.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	165	126
BH-13 (03-5 ft bgs)	03-05-0820	810	320	294	9.7	117	7.3	51.7	16.0	62.3	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	164	131
BH-13 (08-10 ft bgs)	03-05-0821	ND	--	308	10.0	124	7.8	64.3	18.0	58.2	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	166	122
BH-13 (13-15 ft bgs)	03-05-0822	473	300	306	9.7	135	7.4	51.1	16.0	67.5	11.0	15.9	10.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	168	135
BH-14-SS	No EPA ID	1060	320	312	9.4	124	7.0	72.3	16.0	82.6	12.0	28.5	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	169	152
BH-14 (03-5 ft bgs)	03-05-0824	886	330	313	10.0	127	7.7	54.1	17.0	62.3	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	7.1	4.6	ND	--	170	123
BH-14 (08-10 ft bgs)	03-05-0825	897	350	319	11.0	134	8.1	73.2	18.0	63.6	12.0	ND	--	ND	--	ND	--	ND	--	419	240	ND	--	ND	--	171	122
BH-14 (13-15 ft bgs)	03-05-0826	681	320	313	10.0	125	7.7	50.8	17.0	69.4	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	172	123
BH-15-SS	No EPA ID	992	340	302	10.0	122	7.6	81.7	18.0	76.2	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	173	125
BH-15 (03-5 ft bgs)	03-05-0828	ND	--	281	9.7	113	7.4	47.3	17.0	59.9	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	176	125
BH-15 (03-5 ft bgs)	03-05-0828	980	310	330	10.0	122	7.4	87.0	18.0	65.0	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	199	125
BH-15 (08-10 ft bgs)	03-05-0829	926	340	323	10.0	136	7.8	64.9	17.0	62.1	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	177	129
BH-15 (08-10 ft bgs)	03-05-0829	1050	260	324	8.3	130	6.1	89.7	15.0	57.1	9.3	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	200	196
BH-15 (13-15 ft bgs)	03-05-0830	568	310	331	10.0	116	7.5	67.6	18.0	56.4	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	178	124
BH-15 (13-15 ft bgs)	03-05-0830	1030	300	321	10.0	123	7.3	81.1	11.0	57.9	17.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	201	130
BH-16-SS	No EPA ID	1220	390	311	11.0	128	8.1	1410	52.0	107.0	14.0	ND	--	ND	--	ND	--	ND	--	447	260	ND	--	ND	--	181	122

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COLUMBIA AMERICAN PLATING
PORTLAND, OREGON**

Sample ID	EPA Sample ID	Metal Analysis (mg/kg)																						Run No.	Run Time (seconds)		
		Mn	+/-	Sr	+/-	Zr	+/-	Zn	+/-	Rb	+/-	Pb	+/-	Ni	+/-	Cu	+/-	As	+/-	Co	+/-	Hg	+/-			Cr	+/-
EPA Region 9 PRGs		19,000		100,000		NA		100,000		NA		750		20,000		41,000		1.6		1,900		62		450			
Oregon Cleanup Levels		200,000		NA		NA		NA		NA		2,000		40,000		80,000		3		NA		600		1,500			
BH-16-SS	No EPA ID	1640	330	301	9.1	128	6.9	1330	43.0	112.0	12.0	17.4	10.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	190	161
BH-16 (03-5 ft bgs)	03-05-0832	1070	310	327	10.0	125	7.6	66.3	17.0	51.1	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	191	124
BH-16 (08-10 ft bgs)	03-05-0833	871	290	321	9.5	126	7.0	79.8	16.0	68.9	11.0	ND	--	ND	--	ND	--	ND	--	318	200	ND	--	ND	--	192	145
BH-16 (13-15 ft bgs)	03-05-0834	961	290	310	9.8	127	7.4	73.3	17.0	71.5	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	193	129
Basement E-SS (BH-17)	03-05-0840	1070	220	340	7.2	121	5.2	155	14.0	63.6	8.2	ND	--	ND	--	43.4	22.0	ND	--	284	150	ND	--	ND	--	185	267
BH-17 (2.5-3 ft bgs)	03-05-0840	964	340	341	10.0	121	7.5	80.4	18.0	50.9	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	196	124
BH-17 (2.5-3 ft bgs)-D	03-05-0840-D	1120	240	345	7.8	124	5.6	68.6	13.0	56.8	8.6	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	202	230
Basement S-SS (BH-18)	03-05-0841	905	320	325	10.0	125	7.5	115	19.0	67.2	12.0	31.4	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	187	128
BH-18 (2.5-3 ft bgs)	03-05-0841	1070	330	318	10.0	133	7.6	76.2	18.0	64.8	12.0	17.6	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	197	126
Basement W-SS (BH-19)	03-05-0842	1100	350	355	11.0	124	7.9	145	22.0	62.2	12.0	263.0	20.0	ND	--	53.3	34.0	ND	--	ND	--	ND	--	ND	--	182	125
Basement W-SS (BH-19)	03-05-0842	1130	340	356	11.0	120	7.7	198	23.0	58.9	12.0	286.0	21.0	ND	--	70.6	34.0	ND	--	ND	--	ND	--	ND	--	186	125
BH-19 (2.5-3 ft bgs)	03-05-0842	1050	330	330	10.0	118	7.5	72.7	18.0	66.6	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	198	126
BH-19 (2.5-3 ft bgs)-D	03-05-0842-D	1040	320	332	10.0	123	7.6	63.7	17.0	61.1	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	203	125
BH-20 (03-5 ft bgs)	03-05-0847	850	340	318	10.0	128	7.6	913	40.0	63.8	12.0	ND	--	205	74.0	137	44.0	ND	--	ND	--	ND	--	ND	--	210	129
BH-20 (08-10 ft bgs)	03-05-0848	884	300	309	9.3	125	7.0	92.1	17.0	74.4	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	211	147
BH-20 (13-15 ft bgs)	03-05-0849	687	290	310	9.8	136	7.5	56.6	16.0	70.3	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	212	129
BH-21 (03-5 ft bgs)	03-05-0851	619	330	318	10.0	127	7.8	109.0	20.0	53.7	12.0	20.1	11.0	178	72.0	ND	--	ND	--	ND	--	ND	--	ND	--	231	124
BH-21 (08-10 ft bgs)	03-05-0852	910	320	298	9.8	139	7.7	77.0	18.0	72.3	12.0	ND	--	325	72.0	ND	--	ND	--	ND	--	ND	--	ND	--	232	127
BH-21 (13-15 ft bgs)	03-05-0853	541	300	313	9.8	118	7.2	65.4	17.0	67.8	12.0	ND	--	106	65.0	ND	--	ND	--	ND	--	ND	--	ND	--	233	130
BH-22 (03-5 ft bgs)	03-05-0856	776	300	314	9.3	137	7.1	169	22.0	70.3	11.0	16.2	10.0	99.6	66.0	398	39.0	ND	--	ND	--	ND	--	ND	--	234	151
BH-22 (03-5 ft bgs)-D	03-05-0856-D	797	310	312	9.4	138	7.2	163	22.0	74.7	11.0	ND	--	ND	--	376	39.0	12.1	7.6	ND	--	ND	--	ND	--	235	150
BH-22 (08-10 ft bgs)	03-05-0857	810	290	298	9.2	135	7.2	127	19.0	73.6	11.0	ND	--	ND	--	175	33.0	ND	--	ND	--	ND	--	ND	--	236	142
BH-22 (13-15 ft bgs)	03-05-0858	678	310	336	10.0	132	7.5	63.6	17.0	71.8	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	237	131
BH-23 (03-5 ft bgs)	03-05-0860	748	310	302	9.7	130	7.4	75.7	17.0	66.1	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	238	129
BH-23 (08-10 ft bgs)	03-05-0861	766	320	318	10.0	125	7.4	81.4	17.0	55.6	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	217	127
BH-23 (08-10 ft bgs)	03-05-0861	850	310	323	9.5	120	6.9	81.4	16.0	46.1	10.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	239	142
BH-23 (13-15 ft bgs)	03-05-0862	714	300	330	10.0	128	7.3	56.2	16.0	70.2	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	240	134
BH-24 (03-5 ft bgs)	03-05-0864	1070	330	328	10.0	125	7.6	58.6	17.0	65.2	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	215	126
BH-24 (08-10 ft bgs)	03-05-0865	811	310	296	9.6	135	7.5	76.0	17.0	71.8	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	216	125
BH-24 (13-15 ft bgs)	03-05-0866	594	320	301	9.9	135	7.6	67.1	17.0	74.5	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	220	125
BH-25 (03-5 ft bgs)	03-05-0868	801	320	335	10.0	120	7.4	53.0	16.0	61.8	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	223	--
BH-25 (08-10 ft bgs)	03-05-0869	846	340	344	11.0	119	7.6	67.9	17.0	60.8	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	224	122
BH-25 (13-15 ft bgs)	03-05-0870	850	270	318	8.8	120	6.5	65.4	15.0	75.2	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	225	163
BH-25 (13-15 ft bgs)-D	03-05-0870-D	764	320	340	10.0	121	7.4	57.2	17.0	67.9	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	226	132
BH-26 (03-5 ft bgs)	03-05-0872	812	320	320	10.0	125	7.4	72.7	17.0	72.8	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	213	126
BH-26 (03-5 ft bgs)	03-05-0872	923	320	341	10.0	130	7.7	54.0	17.0	60.1	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	214	126

Table H-1

**SUMMARY OF XRF FIELD SCREENING RESULTS
COLUMBIA AMERICAN PLATING
PORTLAND, OREGON**

Sample ID	EPA Sample ID	Metal Analysis (mg/kg)																								Run No.	Run Time (seconds)
		Mn	+/-	Sr	+/-	Zr	+/-	Zn	+/-	Rb	+/-	Pb	+/-	Ni	+/-	Cu	+/-	As	+/-	Co	+/-	Hg	+/-	Cr	+/-		
EPA Region 9 PRGs		19,000		100,000		NA		100,000		NA		750		20,000		41,000		1.6		1,900		62		450			
Oregon Cleanup Levels		200,000		NA		NA		NA		NA		2,000		40,000		80,000		3		NA		600		1,500			
BH-26 (08-10 ft bgs)	03-05-0873	738	270	337	8.8	120	6.3	64.7	14.0	68.5	10.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	221	179
BH-26 (13-15 ft bgs)	03-05-0874	895	320	319	10.0	133	7.6	82.7	18.0	63.5	12.0	ND	--	ND	--	ND	--	ND	--	354	210	ND	--	ND	--	222	127
BH-27 (03-5 ft bgs)	03-05-0876	792	320	324	10.0	123	7.5	63.0	17.0	66.2	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	227	125
BH-27 (08-10 ft bgs)	03-05-0877	782	320	358	10.0	126	7.3	62.2	16.0	58.3	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	228	--
BH-27 (13-15 ft bgs)	03-05-0878	1040	310	339	10.0	120	7.4	61.3	17.0	54.9	11.0	24.6	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	229	126
BH-28 (03-5 ft bgs)	03-05-0880	1120	310	340	10.0	147	7.6	117	18.0	60.5	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	243	137
BH-28 (08-10 ft bgs)	03-05-0881	1240	340	335	11.0	130	7.0	157	21.0	56.5	12.0	179	17.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	244	124
BH-28 (13-15 ft bgs)	03-05-0882	986	340	338	10.0	128	7.7	64.5	18.0	70.8	12.0	49.3	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	245	127
BH-29 (03-5 ft bgs)	03-05-0884	1520	360	343	11.0	125	7.8	82.0	18.0	62.7	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	250	122
BH-29 (08-10 ft bgs)	03-05-0885	1510	300	320	9.1	128	6.8	70.8	16.0	78.6	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	251	159
BH-29 (08-10 ft bgs)-D	03-05-0885-D	1690	350	348	9.8	125	7.0	70.4	17.0	59.0	11.0	ND	--	ND	--	44.3	29.0	ND	--	ND	--	ND	--	ND	--	252	--
BH-29 (13-15 ft bgs)	03-05-0886	1620	350	306	10.0	119	7.4	87.2	18.0	59.3	11.0	16.4	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	253	128
BH-30 (03-5 ft bgs)	03-05-0888	1300	290	326	9.8	132	7.3	68.1	16.0	73.3	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	254	138
BH-30 (08-10 ft bgs)	03-05-0889	1420	370	349	11.0	125	8.0	62.2	18.0	61.0	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	255	123
BH-30 (13-15 ft bgs)	03-05-0890	1420	330	317	11.0	125	7.8	67.6	18.0	66.5	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	256	123
BH-31 (03-5 ft bgs)	03-05-0892	1530	340	334	11.0	125	7.8	63.6	18.0	72.8	12.0	19.3	11.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	257	122
BH-31 (08-10 ft bgs)	03-05-0893	1580	350	335	11.0	128	7.9	63.5	18.0	66.8	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	258	122
BH-31 (13-15 ft bgs)	03-05-0894	1570	360	329	11.0	130	7.9	62.5	18.0	70.0	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	259	123
BH-32 (03-5 ft bgs)	03-05-0898	669	320	309	10.0	126	7.5	70.2	17.0	73.4	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	270	123
BH-32 (08-10 ft bgs)	03-05-0899	1100	340	317	10.0	132	7.8	85.9	18.0	71.9	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	271	123
BH-32 (13-15 ft bgs)	03-05-0900	707	240	293	8.2	145	6.5	61.9	14.0	82.2	10.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	272	171
BH-33 (03-5 ft bgs)	03-05-0902	815	330	311	10.0	121	7.6	62.3	18.0	67.9	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	276	128
BH-33 (08-10 ft bgs)	03-05-0903	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
BH-33 (13-15 ft bgs)	03-05-0904	ND	--	301	10.0	128	7.9	58	18.0	64.7	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	277	--
SS-1	03-05-0907	1270	350	306	10.0	155	8.2	283	26.0	74.5	12.0	61.9	13.0	ND	--	80.6	35.0	ND	--	ND	--	ND	--	ND	--	262	--
SS-2	03-05-0908	1020	370	320	10.0	117	7.5	139	21.0	62.9	12.0	67.2	13.0	ND	--	69.7	33.0	ND	--	ND	--	ND	--	682.0	230.0	263	--
SS-3	03-05-0909	1190	370	332	11.0	131	7.9	471	31.0	63.5	12.0	55.3	13.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	265	125
SS-3-D	03-05-0909-D	1000	350	319	10.0	140	7.6	440	29.0	65.2	12.0	58.1	12.0	ND	--	73.7	35.0	ND	--	ND	--	ND	--	ND	--	266	138
SS-4	03-05-0910	1320	350	334	10.0	156	8.1	203	23.0	62.5	12.0	176.0	17.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	268	131
SS-5	03-05-0911	1350	330	323	9.6	130	7.2	154	19.0	63.4	11.0	78.6	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	269	144
STAL-1	03-05-0845	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	511000	8700	ND	--	ND	--	4920	930	ND	--	ND	--	194	126
Trench 1	03-05-0906	1020	330	316	10.0	141	7.8	75.6	18.0	73.9	12.0	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--	275	126

Note: Italicized Sample IDs indicate that the sample was analyzed more than once but is not a duplicate sample.

Table H-1																										
SUMMARY OF XRF FIELD SCREENING RESULTS																										
COLUMBIA AMERICAN PLATING																										
PORTLAND, OREGON																										
Sample ID	EPA Sample ID	Metal Analysis (mg/kg)																				Run No.	Run Time (seconds)			
		Mn	+/-	Sr	+/-	Zr	+/-	Zn	+/-	Rb	+/-	Pb	+/-	Ni	+/-	Cu	+/-	As	+/-	Co	+/-			Hg	+/-	Cr
EPA Region 9 PRGs		19,000		100,000		NA		100,000		NA		750		20,000		41,000		1.6		1,900		62		450		
Oregon Cleanup Levels		200,000		NA		NA		NA		NA		2,000		40,000		80,000		3		NA		600		1,500		

Key:

- +/-
- = instrument precision in ppm. (Note: an element is detected if it is at least 1.5 times greater than the instrument precision.)
- <
- = less than.
- As
- = Arsenic.
- bgs
- = below ground surface.
- BH
- =Borehole.
- Co
- = Cobalt.
- Cr
- = Chromium.
- Cu
- = Copper.
- D
- = Duplicate.
- EPA
- = United States Environmental Protection Agency.
- ft
- = feet.
- Hg
- = Mercury.
- ID
- = Identification.
- mg/kg
- = milligrams per kilogram.
- Mn
- = Manganese.
- NA
- = Not analyzed.
- ND
- = Not detected.
- Ni
- = Nickel.
- No.
- = Number.
- Pb
- = Lead.
- Rb
- = Rubidium.
- Sr
- = Strontium.
- SS
- = Surface soil.
- STAL
- = Product stalagtite sample.
- XRF
- = X-Ray Fluorescence Spectrometry.
- Zn
- = Zinc.
- Zr
- = Zirconium.

Table H-2

**SUMMARY OF COLOR TEC FIELD SCREENING RESULTS
COLUMBIA AMERICAN PLATING
PORTLAND, OR**

Borehole Ground Water ID	EPA Sample ID	Color Tec Reading	Comments
BH-01-GW	03-05-0765	0.0	None
BH-02-GW	03-05-0769	0.0	None
BH-03-GW	03-05-0773	0.0	None
BH-04-GW	03-05-0777	0.4	Color change is light pink.
BH-05-GW	03-05-0781	0.7	Color change is light pink, faint.
BH-06-GW	03-05-0805	1.4	Color change is light pink.
BH-07-GW	03-05-0801	0.6	Color change is light pink.
BH-08-GW	03-05-0785	1.8	Color change is light pink.
BH-09-GW	03-05-0811	1.4	Color change is light pink.
BH-10-GW	03-05-0815	0.5	Color change is light pink.
BH-11-GW	03-05-0819	0.3	Color change is light pink.
BH-12-GW	03-05-0839	0.0	None
BH-13-GW	03-05-0823	1.7	Color change is light pink.
BH-14-GW	03-05-0827	2.3	Color change is medium pink.
BH-15-GW	03-05-0831	1.7	None
BH-16-GW	03-05-0835	2.4	Color change is light purple.
BH-20-GW	03-05-0850	3.4	None
BH-21-GW	03-05-0855	1.2	None
BH-22-GW	03-05-0859	1.0	None
BH-23-GW	03-05-0863	2.6	None
BH-24-GW\	03-05-0867	1.0	Color change is light pink.
BH-25-GW	03-05-0871	1.4	None
BH-26-GW	03-05-0875	0.3	None
BH-27-GW	03-05-0879	0.5	None
BH-28-GW	03-05-0883	None	According to data sheet, sample collected but no reading recorded.
BH-29-GW	03-05-0887	None	According to data sheet, sample collected but no reading recorded.
BH-30-GW	03-05-0891	3.3	None
BH-31-GW	03-05-0895	2.0	GW and GW MS/MSD sample collected.
BH-32-GW	03-05-0901	0.0	None
BH-33-GW	03-05-0905	None	According to data sheet, sample collected but no reading recorded.

Notes:

No ground water samples were collected in the basement for the following boreholes: BH-17, BH-18, and BH-19.

Key:

BH = Borehole.
EPA = United States Environmental Protection Agency.
GW = Groundwater.
ID = Identification.