Draft
Screening-Level Risk Assessment For Recreational Use Of Beaches
Upper Columbia River
Remedial Investigation and Feasibility Study
Appendices A-E pages 32-113

Prepared by:
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue
Seattle, Washington 98101

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APPENDIX A

Results for the Seven Metals of Concern

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Results for the Seven Metals of Concern

TABLE A-1
Summary of Analytical and Screening Results
Upper Columbia River RI//FS

Site Name	Analyte: (mg/kg)		Antimony	Arsenic	Copper	Iron	Lead	Manganese	Uranium
	CAS Number:		**7440360**	**7440382**	**7440508**	**7439896**	**7439921**	**7439965**	**7440611**
	Recreational RBC		521	16	52143	782143	400	60833	261
	Object Name	**Sample Name**							
Spring Canyon	**RM600B1**	MJ4FG0	1 UJ	8.5	6.5	14300	6.1	226	20.6 U
Campground	**RM600B2**	MJ4FG1	1.1 UJ	7.5	5.5	14900	7.1	208	5.2 J
South	**RM600B3**	MJ4FG2	0.79 UJ	10.3	7.1	15400	6.7	227	20.8 U
	Max		1.1	10.3	7.1	15400	7.1	227	20.8
	PRG Flag		Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		0.2%	54.3%	0.0%	1.9%	1.7%	0.4%	6.0%
	Max/Ave		114.2%	117.5%	111.5%	103.6%	107.0%	103.0%	133.9%
Keller Ferry No 2	**RM615B1**	MJ4FE8	0.58 UR	4	6.7	13100	4.5	214	20.2 U
East	**RM615B2**	MJ4FE9	0.89 UR	4.9	8.6	15500	6.3	230	4.6 J
	RM615B3	MJ4FF0	0.95 UR	4.7	9.1	15600	5.9	248	5.4 J
	Max		0.95	4.9	9.1	15600	6.3	248	20.2
	PRG Flag		Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		0.2%	28.1%	0.0%	1.9%	1.4%	0.4%	3.9%
	Max/Ave		117.8%	108.1%	111.9%	105.9%	113.2%	107.5%	200.7%
Lincoln Mill Boat Ramp	**RM633B1**	MJ4FD3	0.79 UR	5.9	11.5	14200	6.2	334	6.9 J
East	**RM633B2**	MJ4FD4	1.3 UR	6.7	10	12600	4.7	224	6.4 J
	RM633B3	MJ4FD5	0.92 UR	5.9	7.3	10200	4.4	217	6.3 J
	Max		1.3	6.7	11.5	14200	6.2	334	6.9
	PRG Flag		Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		0.2%	38.2%	0.0%	1.6%	1.3%	0.4%	2.5%
	Max/Ave		129.6%	108.6%	119.8%	115.1%	121.6%	129.3%	105.6%
Columbia Campground	**RM642B1c**	MJ4F88	0.53 J	3.9	6	13100	13.2	136	20.1 U
East	**RM642B1L**	MJ4F89	1.3 J	3.4	8.9	13800	9	111	22.1 U
	RM642B1R	MJ4F90	1.3 J	4.2	11.2	16300	9.5	254	21.3 U
	RM642B2c	MJ4F91	0.89 J	5.6	13.4	16300	16.8	215	22.9 U
	RM642B2L	MJ4F92	0.79 J	4.3	10.3	16000	16.1	184	18.6 U
	RM642B2R	MJ4F93	1.2 J	6.3	10.5	15500	22.5	172	21.5 U
	RM642B3c	MJ4F94	1 J	3.2	13.5	14000	31.2	218	23.1 U
	RM642B3L	MJ4F95	0.58 J	6.4	23.2	18700	24.4	340	6.1 J
	RM642B3R	MJ4F97	1.8 UJ	4.5	20.5	17400	119	292	12.9 J
	Ave		1.0	4.6	13.1	15678	29.1	214	18.7
	Max		1.8	6.4	23.2	18700	119	340	23.1
	PRG Flag		Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		0.2%	28.8%	0.0%	2.0%	7.3%	0.4%	7.2%
	Max/Ave		172.5%	137.8%	177.7%	119.3%	409.2%	159.2%	123.3%
Roger's Bar	**RM658B1**	MJ4F64	0.73 UR	2.2	7.4	9720	5.1	134	20.2 U
West	**RM658B2**	MJ4F65	1.2 UR	1.9	9	9800	5.4	157	9.8 U
	RM658B3	MJ4F66	0.97 UR	0.97 U	4.9	4930	3.1	95.3	19.4 U
	Max		1.2	2.2	9	9800	5.4	157	20.2
	PRG Flag		Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		0.2%	10.5%	0.0%	1.0%	1.1%	0.2%	6.3%
	Max/Ave		124.1%	130.2%	126.8%	120.2%	119.1%	121.9%	122.7%
AA Campground	**RM673B1**	MJ4F67	1.2 J	4.1	12.1	14800	6.7	248	22.8 U
East	**RM673B2**	MJ4F69	1.5 J	5.3	20	21100	19.7	383	24.6 U
	RM673B3	MJ4F70	1.1 J	3.6	14.7	16000	33.7	167	23.9 U
	Max		1.5	5.3	20	21100	33.7	383	24.6
	PRG Flag		Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		0.2%	26.8%	0.0%	2.2%	5.0%	0.4%	9.1%
	Max/Ave		118.4%	122.3%	128.2%	122.0%	168.2%	144.0%	103.5%
North Gifford	**RM675B1**	MJ4FB1	1 J	2.3	14.8	13300	51.1	145	24.4 U
Campground	**RM675B2**	MJ4FB3	1.1 J	3.6	16.1	15200 J	15.8	194	21.4 UJ
East	**RM675B3**	MJ4FB4	1.6 J	7	28.7	22600 J	102	526	24.6 UJ
	Max		1.6	7	28.7	22600	102	526	24.6
	PRG Flag		Pass	Pass	Pass	Pass	Pass	Pass	Pass

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Upper Columbia River RI//FS

Site Name	Analyte: (mg/kg)		Antimony	Arsenic	Copper	Iron	Lead	Manganese	Uranium
	CAS Number:		**7440360**	**7440382**	**7440508**	**7439896**	**7439921**	**7439965**	**7440611**
	Recreational RBC		521	16	52143	782143	400	60833	261
	Object Name	**Sample Name**							
			PRG	PRG	PRG	PRG	PRG	PRG	PRG
	Ave/PRG		0.2%	26.6%	0.0%	2.2%	14.1%	0.5%	9.0%
	Max/Ave		129.7%	162.8%	144.5%	132.7%	181.2%	182.4%	104.8%
French Rocks	**RM690B1**	MJ4F49	0.42 UJ	2.4	10.9	11000	20.7	208	17.7 U
Boat Launch	**RM690B2**	MJ4F50	1 UJ	2.4	14.5	9960	18.7	171	8.4 J
West	**RM690B3**	MJ4F51	0.95 UJ	2.6	13.8	12000	21.9	260	22.1 U
	Max		1	2.6	14.5	12000	21.9	260	22.1
	PRG Flag		Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		0.2%	15.3%	0.0%	1.4%	5.1%	0.4%	6.2%
	Max/Ave		126.6%	105.4%	111.0%	109.2%	107.2%	122.1%	137.6%
Haag Cove	**RM697B1**	MJ4F44	0.29 UJ	1	4.2	5180	16.5	111	17.3 U
West	**RM697B2**	MJ4F45	1.8 J	1.4	16.5	11800	136	158	23.1 U
	RM697B3	MJ4F46	1.8 J	2.3	34	18100	222	267	30.2 U
	Max		1.8	2.3	34	18100	222	267	30.2
	PRG Flag		Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		0.2%	9.7%	0.0%	1.5%	31.2%	0.3%	9.0%
	Max/Ave		138.8%	146.8%	186.5%	154.8%	177.8%	149.4%	128.3%
Kettle Falls	**RM700B1c**	MJ4F20	0.37 UJ	1.4	9.9	11300	5.2	259	20 UJ
Swim Beach East	**RM700B1L**	MJ4F21	0.61 UJ	1.5	10.7	8640	6	125	18.2 UJ
East	**RM700B1R**	MJ4F22	5.3 UJ	1.8	9.8	8650	4.3	146	17.8 UJ
	RM700B2c	MJ4F23	0.95 UJ	1	10	9930	7.3	147	16.6 UJ
	RM700B2L	MJ4F24	6.4 UJ	1.3	9.2	9320	6.8	161	21.2 UJ
	RM700B2R	MJ4F25	0.3 UJ	1.5	9.3	9690	4	145	16 UJ
	RM700B3c	MJ4F26	1.3 UJ	2.3	26.7	26000	10.7	605	24.7 UJ
	RM700B3L	MJ4F27	0.45 UJ	1.5	10	10100	7.6	147	17.9 UJ
	RM700B3R	MJ4F29	0.31 UJ	1.8	16.1	16200	8.3	390	19.9 UJ
	Ave		1.8	1.6	12.4	12203	6.7	236	19.1
	Max		6.4	2.3	26.7	26000	10.7	605	24.7
	PRG Flag		Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		0.3%	9.7%	0.0%	1.6%	1.7%	0.4%	7.3%
	Max/Ave		360.2%	146.8%	215.1%	213.1%	160.0%	256.2%	129.0%
Marcus Is	**RM708B1**	MJ4ET6	6.2 UJ	3.9 U	14.1	12700	52.3	170	7.5 J
East	**RM708B2**	MJ4ET8	2 J	8.6	57.8	23400	202	246	6.7 J
	RM708B3	MJ4ET9	8.1 UJ	6.5	50.3	17600	297	214	27.1 U
	Max		8.1	8.6	57.8	23400	297	246	27.1
	PRG Flag		Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		1.0%	39.2%	0.1%	2.3%	45.9%	0.3%	5.3%
	Max/Ave		149.1%	135.8%	141.9%	130.7%	161.6%	117.1%	196.9%
N. Gorge	**RM718B1**	MJ4ET3	0.47 UJ	5	22.9	16000	68.8	171	5.7 J
East	**RM718B2**	MJ4ET4	3.6 J	9.6	132	23500	223	270	11.2 J
	RM718B3	MJ4ET5	6.4 J	10.7	216	29500	216	434	14.2 J
	Max		6.4	10.7	216	29500	223	434	14.2
	PRG Flag		Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		0.7%	52.2%	0.2%	2.9%	42.3%	0.5%	4.0%
	Max/Ave		183.4%	126.9%	174.7%	128.3%	131.7%	148.8%	137.0%
Dalles Orchard	**RM729B1**	MJ4EZ2	11.2 J	13.7	802	82100 D	214	1660	21 UJ
East	**RM729B2**	MJ4EZ3	32.4 J	22.5	1380	110000 D	190	2200	19.4 UJ
	RM729B3	MJ4EZ4	24.8 J	18.1	1300	108000 D	205	2110	20.4 UJ
	Max		32.4	22.5	1380	110000	214	2200	21
	PRG Flag		Pass PRG	Fail PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		4.4%	112.1%	2.2%	12.8%	50.8%	3.3%	7.8%
	Max/Ave		142.1%	124.3%	118.9%	110.0%	105.4%	110.6%	103.6%
Northport	**RM735B1c**	MJ4EX1	8.9 J	6.9	271	33500	163	619	22.3 U
Boat Ramp	**RM735B1L**	MJ4EX2	52.1 J	18.2	2130	171000 D	239	3430 D	20.6 U
East	**RM735B1R**	MJ4EX4	3.6 J	6.9	98	21300	156	288	22.4 U
	RM735B2c	MJ4EY4	14.8 J	10.5	598	71600 D	249	1220	19 U
	RM735B2L	MJ4EY5	53.2 J	23.2	2620	213000 D	324	4150 D	20.2 U
	RM735B2R	MJ4EY6	13.7 J	9.3	328	40100	194	642	21.3 U
	RM735B3c	MJ4EY7	9.6 J	6.1	364	34600	174	672	21.8 U
	RM735B3L	MJ4EZ0	43.6 J	35.7	3290	254000 D	535	4780 D	19.1 U

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	CAS Number:		**7440360**	**7440382**	**7440508**	**7439896**	**7439921**	**7439965**	**7440611**
	Recreational RBC		521	16	52143	782143	400	60833	261
	Object Name	**Sample Name**							
	RM735B3R	MJ4EZ1	15.6 J	10.2	491	51500	217	961	21.8 U
	Ave		23.9	14.1	1132	98956	250	1862	20.9
	Max		53.2	35.7	3290	254000	535	4780	22.4
	PRG Flag		Pass PRG	Fail PRG	Pass PRG	Pass PRG	Fail PRG	Pass PRG	Pass PRG
	Ave/PRG		4.6%	87.4%	2.2%	12.7%	62.5%	3.1%	8.0%
	Max/Ave		222.6%	253.0%	290.6%	256.7%	213.9%	256.7%	106.9%
Black Sand East Bank	**RM742B1**	MJ4EW4	47.7 J	27.3	2350	211000 D	266	3680 D	81.6
	RM742B2	MJ4EW5	52.3 J	25.2	2240	187000 D	231	3680 D	84.3 J
	RM742B3	MJ4EX0	18.6 J	16.1	1620	197000 D	276	3080	64.8 J
	Max		52.3	27.3	2350	211000	276	3680	84.3
	PRG Flag		Pass PRG	Fail PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG	Pass PRG
	Ave/PRG		7.6%	141.6%	4.0%	25.4%	64.4%	5.7%	29.5%
	Max/Ave		132.3%	119.4%	113.5%	106.4%	107.1%	105.7%	109.6%

APPENDIX B

Summary of Complete Analytical Results

LIST OF QUALIFIERS

Qualifier	Definition
U	The analyte was not detected at or above the reported result.
J	The analyte was positively identified. The associated numerical result is an estimate.
UJ	The analyte was not detected at or above the reported estimated results. The associated numerical value is an estimate of the quantitiation limit of the analyte in this sample.
R	The data are unusable for all purposes.
D	The value is the result of analysis at a secondary dilution factor.

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM600B1**	**RM600B2**	**RM600B3**	**RM615B1**	**RM615B2**	**RM615B3**	**RM633B1**
Date Collected:					19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	18-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1289	1276	1266	1279	1275	1275	1289
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
415.1											
Total organic carbon	E-10195	mg/Kg	98%	63	286 U	825	558	385	910	1,330	1,850
CLP TAL TotMetals											
Aluminum	7429905	mg/Kg	100%	63	7,150	7,800	8,310	6,270	8,030	8,620	7,160
Antimony	7440360	mg/Kg	63%	54	1.0 UJ	1.1 UJ	0.79 UJ	0.58 UR	0.89 UR	0.95 UR	0.79 UR
Arsenic	7440382	mg/Kg	97%	63	8.5	7.5	10	4.0	4.9	4.7	5.9
Barium	7440393	mg/Kg	100%	63	41	52	51	46	59	69	61
Beryllium	7440417	mg/Kg	100%	63	0.53	0.60	0.64	0.51	0.68	0.74	0.47
Cadmium	7440439	mg/Kg	86%	63	0.52 U	0.51 U	0.52 U	0.50 U	0.48 U	0.50 U	0.064 U
Calcium	7440702	mg/Kg	100%	63	5,990	1,810	1,960	3,880	1,760	1,940	11,500
Chromium	7440473	mg/Kg	100%	63	9.0	9.7	9.6	9.8	11	13	9.6
Cobalt	7440484	mg/Kg	100%	63	3.7 J	4.1 J	4.4 J	3.9 J	5.0	5.4	14
Copper	7440508	mg/Kg	100%	63	6.5	5.5	7.1	6.7	8.6	9.1	12
Iron	7439896	mg/Kg	100%	63	14,300	14,900	15,400	13,100	15,500	15,600	14,200
Lead	7439921	mg/Kg	100%	63	6.1	7.1	6.7	4.5	6.3	5.9	6.2
Magnesium	7439954	mg/Kg	100%	63	5,360	5,590	5,880	4,330	4,390	4,210	6,530
Manganese	7439965	mg/Kg	100%	63	226	208	227	214	230	248	334
Mercury	7439976	mg/Kg	68%	63	0.10 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.10 U
Nickel	7440020	mg/Kg	100%	63	7.5	7.5	8.2	8.5	9.4	10	8.5
Potassium	7440097	mg/Kg	100%	63	1,230	1,470	1,610	1,080	1,410	1,640	1,350
Selenium	7782492	mg/Kg	26%	19	3.6 UJ	3.6 UJ	3.6 UJ	3.5 UR	3.4 UR	3.5 UR	3.3 UR
Silver	7440224	mg/Kg	#VALUE!	63	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.96 UJ	1.0 UJ	0.93 UJ
Sodium	7440235	mg/Kg	89%	63	74 J	54 J	66 J	49 J	58 J	75 J	98 J
Thallium	7440280	mg/Kg	5%	63	2.6 U	2.6 U	2.6 U	2.5 U	2.4 U	2.5 U	2.3 U
Uranium	7440611	mg/Kg	27%	63	21 U	5.2 J	21 U	20 U	4.6 J	5.4 J	6.9 J
Vanadium	7440622	mg/Kg	100%	63	14	14	15	14	17	20	13
Zinc	7440666	mg/Kg	100%	63	40	55	48	37	44	39	36
CLP TCL PAH											
2-Methylnaphthalene	91576	µg/Kg	35%	63	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	0.30 J
Acenaphthene	83329	µg/Kg	11%	63	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	4.0 U
Acenaphthylene	208968	µg/Kg	14%	63	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	0.90 J
Anthracene	120127	µg/Kg	13%	63	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	4.0 U
Benzo(a)anthracene	56553	µg/Kg	30%	63	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	4.0 U

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Station ID:					**RM600B1**	**RM600B2**	**RM600B3**	**RM615B1**	**RM615B2**	**RM615B3**	**RM633B1**
Date Collected:					19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	18-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1289	1276	1266	1279	1275	1275	1289
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Benzo(a)pyrene	50328	µg/Kg	24%	63	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ	4.0 U	5.0 U	4.0 U
Benzo(b)fluoranthene	205992	µg/Kg	24%	63	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ	4.0 U	5.0 U	0.30 J
Benzo(ghi)perylene	191242	µg/Kg	32%	63	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ	4.0 U	5.0 U	0.90 J
Benzo(k)fluoranthene	207089	µg/Kg	14%	63	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ	4.0 U	5.0 U	0.30 J
Chrysene	218019	µg/Kg	54%	63	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	0.70 J
Dibenzo(a,h)anthracene	53703	µg/Kg	17%	63	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ	4.0 U	5.0 U	4.0 U
Dibenzofuran	132649	µg/Kg	22%	63	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	4.0 U
Fluoranthene	206440	µg/Kg	48%	63	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	4.0
Fluorene	86737	µg/Kg	14%	63	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	4.0 U
Indeno[1,2,3-cd]pyrene	193395	µg/Kg	25%	63	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ	4.0 U	5.0 U	0.30 J
Naphthalene	91203	µg/Kg	16%	63	3.5 U	3.6 U	3.5 U	3.6 U	3.6 U	3.7 U	2.0 J
Phenanthrene	85018	µg/Kg	44%	63	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	2.0 J
Pyrene	129000	µg/Kg	48%	63	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	5.0
CLP TCL PCBs											
PCB-1016	12674112	µg/Kg	0%	63	0.84 U	0.86 U	0.86 U	0.88 U	0.88 U	0.92 U	0.86 U
PCB-1221	11104282	µg/Kg	0%	63	3.4 U	3.5 U	3.5 U	3.6 U	3.6 U	3.7 U	3.4 U
PCB-1232	11141165	µg/Kg	0%	63	3.4 U	3.5 U	3.5 U	3.6 U	3.6 U	3.7 U	3.4 U
PCB-1242	53469219	µg/Kg	0%	63	0.84 U	0.86 U	0.86 U	0.88 U	0.88 U	0.92 U	0.86 U
PCB-1248	12672296	µg/Kg	0%	63	0.84 U	0.86 U	0.86 U	0.88 U	0.88 U	0.92 U	0.86 U
PCB-1254	11097691	µg/Kg	0%	63	0.84 U	0.86 U	0.86 U	0.88 U	0.88 U	0.92 U	0.86 U
PCB-1260	11096825	µg/Kg	0%	63	0.84 U	0.86 U	0.86 U	0.88 U	0.88 U	0.92 U	0.86 U
CLP TCL Pesticides											
2,4'-DDD	53190	µg/Kg	0%	63	0.68 U	0.70 U	0.69 U	0.71 U	0.71 U	0.74 U	0.69 U
2,4'-DDE	3424826	µg/Kg	5%	63	0.68 U	0.70 U	0.69 U	0.71 U	0.71 U	0.74 U	0.69 U
2,4'-DDT	789026	µg/Kg	11%	63	0.68 U	0.33 J	0.69 U	0.71 U	0.45 J	0.74 U	0.69 U
4,4'-DDD	72548	µg/Kg	2%	63	0.68 U	0.70 U	0.69 U	0.71 U	0.71 U	0.74 U	0.69 U
4,4'-DDE	72559	µg/Kg	11%	63	0.68 U	0.70 U	0.69 U	0.71 U	0.50 J	0.74 U	0.69 U
4,4'-DDT	50293	µg/Kg	33%	63	0.68 U	1.5	0.29 J	0.71 U	1.3 J	0.74 U	0.26 J
Aldrin	309002	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
alpha-BHC	319846	µg/Kg	2%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
alpha-Chlordane	5103719	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
beta-BHC	319857	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
cis-Nonachlor	5103731	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM600B1**	**RM600B2**	**RM600B3**	**RM615B1**	**RM615B2**	**RM615B3**	**RM633B1**
Date Collected:					19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	18-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1289	1276	1266	1279	1275	1275	1289
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
delta-BHC	319868	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
Dieldrin	60571	µg/Kg	0%	63	0.68 U	0.70 U	0.69 U	0.71 U	0.71 U	0.74 U	0.69 U
Endosulfan I	959988	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
Endosulfan II	33213659	µg/Kg	0%	63	0.68 U	0.70 U	0.69 U	0.71 U	0.71 U	0.74 U	0.69 U
Endosulfan sulfate	1031078	µg/Kg	0%	63	0.68 U	0.70 U	0.69 U	0.71 U	0.71 U	0.74 U	0.69 U
Endrin	72208	µg/Kg	0%	63	0.68 U	0.70 U	0.69 U	0.71 U	0.71 U	0.74 U	0.69 U
Endrin aldehyde	7421934	µg/Kg	0%	63	0.68 U	0.70 U	0.69 U	0.71 U	0.71 U	0.74 U	0.69 U
Endrin ketone	53494705	µg/Kg	0%	63	0.68 U	0.70 U	0.69 U	0.71 U	0.71 U	0.74 U	0.69 U
gamma-BHC (Lindane)	58899	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
gamma-Chlordane	5566347	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
Heptachlor	76448	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
Heptachlor epoxide	1024573	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
Hexachlorobenzene	118741	µg/Kg	6%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
Hexachlorobutadiene	87683	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
Methoxychlor	72435	µg/Kg	5%	63	3.4 U	3.4 U	3.4 U	3.5 U	3.6 U	3.7 U	3.4 U
Oxychlordane	27304138	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
Toxaphene	8001352	µg/Kg	0%	63	34 U	34 U	34 U	35 U	35 U	37 U	34 U
trans-Nonachlor	39765805	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.34 U
CLP TCL SVOC											
1,1'-Biphenyl	92524	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
1,2,4-Trichlorobenzene	120821	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
1,2-Dichlorobenzene	95501	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
1,3-Dichlorobenzene	541731	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
1,4-Dichlorobenzene	106467	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
2,2'-oxybis(1-chloropropane)	108601	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
2,4,5-Trichlorophenol	95954	µg/Kg	0%	63	210 U	220 U	220 U	220 U	220 U	230 U	220 U
2,4,6-Trichlorophenol	88062	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
2,4-Dichlorophenol	120832	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
2,4-Dimethylphenol	105679	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
2,4-Dinitrophenol	51285	µg/Kg	0%	53	210 UR	220 UR	220 UR	220 UR	220 UR	230 UR	220 UR
2,4-Dinitrotoluene	121142	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
2,6-Dinitrotoluene	606202	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
2-Chloronaphthalene	91587	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM600B1**	**RM600B2**	**RM600B3**	**RM615B1**	**RM615B2**	**RM615B3**	**RM633B1**
Date Collected:					19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	18-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1289	1276	1266	1279	1275	1275	1289
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
2-Chlorophenol	95578	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
2-Methylphenol	95487	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
2-Nitroaniline	88744	µg/Kg	0%	63	210 U	220 U	220 U	220 U	220 U	230 U	220 U
2-Nitrophenol	88755	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
3,3'-Dichlorobenzidine	91941	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
3-Nitroaniline	99092	µg/Kg	0%	63	210 U	220 U	220 U	220 U	220 U	230 U	220 U
4,6-Dinitro-2-methylphenol	534521	µg/Kg	0%	63	210 UJ	220 UJ	220 UJ	220 UJ	220 UJ	230 UJ	220 U
4-Bromophenyl-phenylether	101553	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
4-Chloro-3-methylphenol	59507	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
4-Chloroaniline	106478	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
4-Chlorophenyl-phenyl ether	7005723	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
4-Methylphenol	106445	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
4-Nitroaniline	100016	µg/Kg	0%	63	210 U	220 U	220 U	220 U	220 U	230 U	220 U
4-Nitrophenol	100027	µg/Kg	0%	63	210 U	220 U	220 U	220 U	220 U	230 U	220 U
Acetophenone	98862	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Atrazine	1912249	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Benzaldehyde	100527	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Benzoic acid	65850	µg/Kg	0%	46	85 UR	86 UR	85 UR	88 UR	88 UR	91 UR	85 UR
Benzyl alcohol	100516	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
bis(2-Chloroethoxy)methane	111911	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Bis(2-chloroethyl)ether	111444	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Bis(2-ethylhexyl)phthalate	117817	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Butyl benzyl phthalate	85687	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Caprolactam	105602	µg/Kg	3%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Carbazole	86748	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Di-n-butyl phthalate	84742	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Di-n-octylphthalate	117840	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Diethyl phthalate	84662	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Dimethyl phthalate	131113	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Hexachloroethane	67721	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Isophorone	78591	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
N-Nitrosodi-n-propylamine	621647	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
N-Nitrosodiphenylamine	86306	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Nitrobenzene	98953	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM600B1**	**RM600B2**	**RM600B3**	**RM615B1**	**RM615B2**	**RM615B3**	**RM633B1**
Date Collected:					19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	19-Apr-05	18-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1289	1276	1266	1279	1275	1275	1289
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Pentachlorophenol	87865	µg/Kg	0%	63	210 U	220 U	220 U	220 U	220 U	230 U	220 U
Perchlorocyclopentadiene	77474	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Phenol	108952	µg/Kg	0%	63	85 U	86 U	85 U	88 U	88 U	91 U	85 U
Dioxins and Furans											
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822469	pg/g	47%	36	0.61 U	0.89 U	1.3 J	0.95 J	0.59 U	0.25 U	4.4
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	pg/g	58%	36	0.14 J	0.14 J	0.26 J	0.076 J	0.089 J	0.055 U	11
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	pg/g	3%	36	0.080 U	0.12 U	0.10 U	0.062 U	0.082 U	0.079 U	0.15 U
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227286	pg/g	39%	36	0.088 J	0.11 J	0.065 J	0.091 U	0.063 U	0.082 U	0.085 U
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	pg/g	11%	36	0.041 U	0.052 U	0.031 U	0.044 U	0.034 U	0.040 U	0.16 U
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653857	pg/g	44%	36	0.080 J	0.072 J	0.076 U	0.088 U	0.066 U	0.082 U	0.55 J
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	pg/g	19%	36	0.041 U	0.049 U	0.044 U	0.044 U	0.034 U	0.039 U	0.13 U
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408743	pg/g	42%	36	0.069 J	0.091 U	0.067 J	0.090 U	0.065 U	0.083 U	0.26 J
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	pg/g	6%	36	0.064 U	0.082 U	0.073 U	0.073 U	0.056 U	0.067 U	0.18 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764	pg/g	28%	36	0.058 U	0.064 U	0.070 U	0.060 U	0.054 U	0.086 U	0.068 U
1,2,3,7,8-Pentachlorodibenzofuran	57117416	pg/g	19%	36	0.029 U	0.034 U	0.035 U	0.028 U	0.033 U	0.042 U	0.037 U
2,3,4,6,7,8-Hexachlorodibenzofuran	60851345	pg/g	17%	36	0.043 U	0.053 J	0.045 U	0.044 U	0.035 U	0.043 U	0.17 U
2,3,4,7,8-Pentachlorodibenzofuran	57117314	pg/g	33%	36	0.030 U	0.051 U	0.029 U	0.027 U	0.036 U	0.046 U	0.10 U
2,3,7,8-Tetrachlorodibenzodioxin	1746016	pg/g	19%	36	0.053 U	0.047 U	0.057 U	0.057 U	0.050 U	0.066 U	0.053 U
2,3,7,8-Tetrachlorodibenzofuran	51207319	pg/g	64%	36	0.10 U	0.095 U	0.20 U	0.092 U	0.16 U	0.096 U	0.11 U
Heptachlorodibenzodioxin (Total)	37871004	pg/g	83%	36	1.2 J	1.6 U	2.3 U	1.9	1.2	0.52	8.5
Heptachlorodibenzofuran (Total)	38998753	pg/g	72%	36	0.32 J	0.38 J	0.63 J	0.18 J	0.16 J	0.065 U	17 J
Hexachlorodibenzodioxin (Total)	34465468	pg/g	81%	36	0.24	0.28	0.30	0.13	0.11	0.083 U	3.5
Hexachlorodibenzofuran (Total)	55684941	pg/g	86%	36	0.23	0.26	0.45	0.061	0.052	0.046 U	5.8
Octachlorodibenzodioxin	3268879	pg/g	58%	36	3.7 U	5.6	19	5.3	4.0	1.9 U	31
Octachlorodibenzofuran	39001020	pg/g	58%	36	0.25 J	0.33 J	0.51 J	0.24 U	0.16 J	0.17 U	3.2 J
Pentachlorodibenzodioxin (Total)	36088229	pg/g	53%	36	0.13 U	0.064 U	0.070 U	0.060 U	0.12	0.086 U	0.64
Pentachlorodibenzofuran (Total)	30402154	pg/g	64%	36	0.18	0.14 U	0.065 U	0.027 U	0.066 J	0.043 U	1.2 J
TEQ WHO-98	TEQ	pg/g	92%	36	0.025	0.026	0.030	0.0010	0.0017	0 U	0.24
Tetrachlorodibenzodioxin (Total)	41903575	pg/g	42%	36	0.053 U	0.047 U	0.057 U	0.057 U	0.050 U	0.066 U	0.86
Tetrachlorodibenzofuran (Total)	55722275	pg/g	81%	36	0.10 U	0.095 U	0.32 J	0.14 J	0.27 J	0.096 U	0.83 J

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM633B2**	**RM633B3**	**RM642B1c**	**RM642B1L**	**RM642B1R**	**RM642B2c**	**RM642B2L**
Date Collected:					18-Apr-05	18-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1278	1267	1281	1279	1281	1264	1264
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
415.1											
Total organic carbon	E-10195	mg/Kg	98%	63	582	543	944	4,810	4,500	6,420	3,470
CLP TAL TotMetals											
Aluminum	7429905	mg/Kg	100%	63	6,900	5,070	7,350	7,890	11,600	11,400	9,680
Antimony	7440360	mg/Kg	63%	54	1.3 UR	0.92 UR	0.53 J	1.3 J	1.3 J	0.89 J	0.79 J
Arsenic	7440382	mg/Kg	97%	63	6.7	5.9	3.9	3.4	4.2	5.6	4.3
Barium	7440393	mg/Kg	100%	63	34	35	62	68	114	112	91
Beryllium	7440417	mg/Kg	100%	63	0.43 J	0.32 J	0.43 J	0.55 J	0.72	0.75	0.67
Cadmium	7440439	mg/Kg	86%	63	0.058 U	0.47 U	0.25 J	0.46 J	0.29 J	0.51 J	0.37 J
Calcium	7440702	mg/Kg	100%	63	15,100	10,300	1,660	2,030	2,360	2,630	2,160
Chromium	7440473	mg/Kg	100%	63	9.1	6.2	11	12	13	14	15
Cobalt	7440484	mg/Kg	100%	63	3.5 J	3.0 J	4.7 J	5.4 J	6.2	6.6	6.4
Copper	7440508	mg/Kg	100%	63	10	7.3	6.0	8.9	11	13	10
Iron	7439896	mg/Kg	100%	63	12,600	10,200	13,100	13,800	16,300	16,300	16,000
Lead	7439921	mg/Kg	100%	63	4.7	4.4	13	9.0	9.5	17	16
Magnesium	7439954	mg/Kg	100%	63	6,240	5,320	3,420	3,430	3,610	4,120	3,920
Manganese	7439965	mg/Kg	100%	63	224	217	136	111	254	215	184
Mercury	7439976	mg/Kg	68%	63	0.11 U	0.098 U	0.032 J	0.012 J	0.0070 J	0.033 J	0.018 J
Nickel	7440020	mg/Kg	100%	63	7.8	6.1	9.4	11	11	12	12
Potassium	7440097	mg/Kg	100%	63	1,410	1,140	1,240	1,360	1,640	2,000	1,850
Selenium	7782492	mg/Kg	26%	19	3.4 UR	3.3 UR	3.5 UR	3.9 UR	3.7 UR	4.0 UR	3.3 UR
Silver	7440224	mg/Kg	#VALUE!	63	0.97 UJ	0.94 UJ	1.0 UJ	1.1 UJ	1.1 UJ	1.1 UJ	0.93 UJ
Sodium	7440235	mg/Kg	89%	63	97 J	57 J	75 J	94 J	111 J	108 J	92 J
Thallium	7440280	mg/Kg	5%	63	2.4 U	2.3 U	2.5 U	2.8 U	2.7 U	2.9 U	2.3 U
Uranium	7440611	mg/Kg	27%	63	6.4 J	6.3 J	20 U	22 U	21 U	23 U	19 U
Vanadium	7440622	mg/Kg	100%	63	11	8.4	14	19	21	21	22
Zinc	7440666	mg/Kg	100%	63	30	27	149	116	95	143	129
CLP TCL PAH											
2-Methylnaphthalene	91576	µg/Kg	35%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthene	83329	µg/Kg	11%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	208968	µg/Kg	14%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Anthracene	120127	µg/Kg	13%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	56553	µg/Kg	30%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM633B2**	**RM633B3**	**RM642B1c**	**RM642B1L**	**RM642B1R**	**RM642B2c**	**RM642B2L**
Date Collected:					18-Apr-05	18-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1278	1267	1281	1279	1281	1264	1264
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Benzo(a)pyrene	50328	µg/Kg	24%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	205992	µg/Kg	24%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(ghi)perylene	191242	µg/Kg	32%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	207089	µg/Kg	14%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	218019	µg/Kg	54%	63	0.20 J	4.0 U	4.0 U	0.70 J	5.0 U	5.0 U	0.40 J
Dibenzo(a,h)anthracene	53703	µg/Kg	17%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	132649	µg/Kg	22%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	206440	µg/Kg	48%	63	4.0 U	4.0 U	4.0 U	0.70 J	5.0 U	5.0 U	0.40 J
Fluorene	86737	µg/Kg	14%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno[1,2,3-cd]pyrene	193395	µg/Kg	25%	63	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	91203	µg/Kg	16%	63	8.6 U	3.6 U	3.6 U	3.7 U	3.8 U	4.2 U	3.8 U
Phenanthrene	85018	µg/Kg	44%	63	4.0 U	4.0 U	4.0 U	0.40 J	5.0 U	5.0 U	5.0 U
Pyrene	129000	µg/Kg	48%	63	4.0 U	4.0 U	4.0 U	0.50 J	5.0 U	5.0 U	5.0 U
CLP TCL PCBs											
PCB-1016	12674112	µg/Kg	0%	63	0.85 U	0.86 U	0.85 U	0.90 U	0.92 U	1.0 U	0.92 U
PCB-1221	11104282	µg/Kg	0%	63	3.4 U	3.4 U	3.4 U	3.6 U	3.7 U	4.1 U	3.7 U
PCB-1232	11141165	µg/Kg	0%	63	3.4 U	3.4 U	3.4 U	3.6 U	3.7 U	4.1 U	3.7 U
PCB-1242	53469219	µg/Kg	0%	63	0.85 U	0.86 U	0.85 U	0.90 U	0.92 U	1.0 U	0.92 U
PCB-1248	12672296	µg/Kg	0%	63	0.85 U	0.86 U	0.85 U	0.90 U	0.92 U	1.0 U	0.92 U
PCB-1254	11097691	µg/Kg	0%	63	0.85 U	0.86 U	0.85 U	0.90 U	0.92 U	1.0 U	0.92 U
PCB-1260	11096825	µg/Kg	0%	63	0.85 U	0.86 U	0.85 U	0.90 U	0.92 U	1.0 U	0.92 U
CLP TCL Pesticides											
2,4'-DDD	53190	µg/Kg	0%	63	0.68 U	0.69 U	0.69 U	0.73 U	0.74 U	0.83 U	0.74 U
2,4'-DDE	3424826	µg/Kg	5%	63	0.68 U	0.69 U	0.69 U	0.73 U	0.74 U	0.56 J	0.74 U
2,4'-DDT	789026	µg/Kg	11%	63	0.68 U	0.69 U	0.46	0.73 U	0.74 U	1.7	0.41 J
4,4'-DDD	72548	µg/Kg	2%	63	0.68 U	0.69 U	0.69 U	0.73 U	0.74 U	0.83 U	0.74 U
4,4'-DDE	72559	µg/Kg	11%	63	0.68 U	0.69 U	0.85 J	0.12 J	0.74 U	1.6 J	0.32 J
4,4'-DDT	50293	µg/Kg	33%	63	0.12 J	0.19 J	1.5 J	0.19 J	0.20 J	6.3	1.4 J
Aldrin	309002	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
alpha-BHC	319846	µg/Kg	2%	63	0.34 U	0.23 J	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
alpha-Chlordane	5103719	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
beta-BHC	319857	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
cis-Nonachlor	5103731	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM633B2**	**RM633B3**	**RM642B1c**	**RM642B1L**	**RM642B1R**	**RM642B2c**	**RM642B2L**
Date Collected:					18-Apr-05	18-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1278	1267	1281	1279	1281	1264	1264
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
delta-BHC	319868	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
Dieldrin	60571	µg/Kg	0%	63	0.68 U	0.69 U	0.69 U	0.73 U	0.74 U	0.83 U	0.74 U
Endosulfan I	959988	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
Endosulfan II	33213659	µg/Kg	0%	63	0.68 U	0.69 U	0.69 U	0.73 U	0.74 U	0.83 U	0.74 U
Endosulfan sulfate	1031078	µg/Kg	0%	63	0.68 U	0.69 U	0.69 U	0.73 U	0.74 U	0.83 U	0.74 U
Endrin	72208	µg/Kg	0%	63	0.68 U	0.69 U	0.69 U	0.73 U	0.74 U	0.83 U	0.74 U
Endrin aldehyde	7421934	µg/Kg	0%	63	0.68 U	0.69 U	0.69 U	0.73 U	0.74 U	0.83 U	0.74 U
Endrin ketone	53494705	µg/Kg	0%	63	0.68 U	0.69 U	0.69 U	0.73 U	0.74 U	0.83 U	0.74 U
gamma-BHC (Lindane)	58899	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
gamma-Chlordane	5566347	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
Heptachlor	76448	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
Heptachlor epoxide	1024573	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
Hexachlorobenzene	118741	µg/Kg	6%	63	0.34 U	0.34 U	1.1	1.6	0.37 U	0.41 U	0.37 U
Hexachlorobutadiene	87683	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
Methoxychlor	72435	µg/Kg	5%	63	3.4 U	3.4 U	3.4 U	3.6 U	3.7 U	4.1 U	3.7 U
Oxychlordane	27304138	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
Toxaphene	8001352	µg/Kg	0%	63	34 U	34 U	34 U	36 U	37 U	41 U	37 U
trans-Nonachlor	39765805	µg/Kg	0%	63	0.34 U	0.34 U	0.34 U	0.36 U	0.37 U	0.41 U	0.37 U
CLP TCL SVOC											
1,1'-Biphenyl	92524	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
1,2,4-Trichlorobenzene	120821	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
1,2-Dichlorobenzene	95501	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
1,3-Dichlorobenzene	541731	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
1,4-Dichlorobenzene	106467	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
2,2'-oxybis(1-chloropropane)	108601	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
2,4,5-Trichlorophenol	95954	µg/Kg	0%	63	220 U	220 U	220 U	230 U	230 U	260 U	240 U
2,4,6-Trichlorophenol	88062	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
2,4-Dichlorophenol	120832	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
2,4-Dimethylphenol	105679	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
2,4-Dinitrophenol	51285	µg/Kg	0%	53	220 UR	220 UR	220 UJ	230 UJ	230 UJ	260 UJ	240 UJ
2,4-Dinitrotoluene	121142	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
2,6-Dinitrotoluene	606202	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
2-Chloronaphthalene	91587	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM633B2**	**RM633B3**	**RM642B1c**	**RM642B1L**	**RM642B1R**	**RM642B2c**	**RM642B2L**
Date Collected:					18-Apr-05	18-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1278	1267	1281	1279	1281	1264	1264
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
2-Chlorophenol	95578	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
2-Methylphenol	95487	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
2-Nitroaniline	88744	µg/Kg	0%	63	220 U	220 U	220 U	230 U	230 U	260 U	240 U
2-Nitrophenol	88755	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
3,3'-Dichlorobenzidine	91941	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
3-Nitroaniline	99092	µg/Kg	0%	63	220 U	220 U	220 U	230 U	230 U	260 U	240 U
4,6-Dinitro-2-methylphenol	534521	µg/Kg	0%	63	220 U	220 U	220 U	230 U	230 U	260 U	240 U
4-Bromophenyl-phenylether	101553	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
4-Chloro-3-methylphenol	59507	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
4-Chloroaniline	106478	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
4-Chlorophenyl-phenyl ether	7005723	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
4-Methylphenol	106445	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
4-Nitroaniline	100016	µg/Kg	0%	63	220 U	220 U	220 U	230 U	230 U	260 U	240 U
4-Nitrophenol	100027	µg/Kg	0%	63	220 U	220 U	220 U	230 U	230 U	260 U	240 U
Acetophenone	98862	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Atrazine	1912249	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Benzaldehyde	100527	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Benzoic acid	65850	µg/Kg	0%	46	85 UR	86 UR	86 UJ	91 UJ	92 UJ	100 UJ	93 UJ
Benzyl alcohol	100516	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
bis(2-Chloroethoxy)methane	111911	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Bis(2-chloroethyl)ether	111444	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Bis(2-ethylhexyl)phthalate	117817	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Butyl benzyl phthalate	85687	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Caprolactam	105602	µg/Kg	3%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Carbazole	86748	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Di-n-butyl phthalate	84742	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Di-n-octylphthalate	117840	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Diethyl phthalate	84662	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Dimethyl phthalate	131113	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Hexachloroethane	67721	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Isophorone	78591	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
N-Nitrosodi-n-propylamine	621647	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
N-Nitrosodiphenylamine	86306	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Nitrobenzene	98953	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM633B2**	**RM633B3**	**RM642B1c**	**RM642B1L**	**RM642B1R**	**RM642B2c**	**RM642B2L**
Date Collected:					18-Apr-05	18-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1278	1267	1281	1279	1281	1264	1264
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Pentachlorophenol	87865	µg/Kg	0%	63	220 U	220 U	220 UJ	230 UJ	230 UJ	260 UJ	240 UJ
Perchlorocyclopentadiene	77474	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Phenol	108952	µg/Kg	0%	63	85 U	86 U	86 U	91 U	92 U	100 U	93 U
Dioxins and Furans											
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822469	pg/g	47%	36	0.10 U	0.26 U	--	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	pg/g	58%	36	0.19 J	0.16 J	--	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	pg/g	3%	36	0.079 U	0.10 U	--	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227286	pg/g	39%	36	0.099 U	0.055 U	--	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	pg/g	11%	36	0.046 U	0.034 U	--	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653857	pg/g	44%	36	0.10 U	0.057 U	--	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	pg/g	19%	36	0.045 U	0.032 U	--	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408743	pg/g	42%	36	0.10 U	0.056 U	--	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	pg/g	6%	36	0.071 U	0.055 U	--	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764	pg/g	28%	36	0.056 U	0.052 U	--	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran	57117416	pg/g	19%	36	0.021 U	0.024 U	--	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran	60851345	pg/g	17%	36	0.050 U	0.036 U	--	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran	57117314	pg/g	33%	36	0.037 U	0.024 U	--	--	--	--	--
2,3,7,8-Tetrachlorodibenzodioxin	1746016	pg/g	19%	36	0.052 U	0.057 U	--	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran	51207319	pg/g	64%	36	0.057 U	0.073 U	--	--	--	--	--
Heptachlorodibenzodioxin (Total)	37871004	pg/g	83%	36	0.33	0.54	--	--	--	--	--
Heptachlorodibenzofuran (Total)	38998753	pg/g	72%	36	0.35 U	0.16 U	--	--	--	--	--
Hexachlorodibenzodioxin (Total)	34465468	pg/g	81%	36	0.056	0.056 U	--	--	--	--	--
Hexachlorodibenzofuran (Total)	55684941	pg/g	86%	36	0.087	0.12 U	--	--	--	--	--
Octachlorodibenzodioxin	3268879	pg/g	58%	36	2.3 U	1.6 U	--	--	--	--	--
Octachlorodibenzofuran	39001020	pg/g	58%	36	0.20 J	0.20 U	--	--	--	--	--
Pentachlorodibenzodioxin (Total)	36088229	pg/g	53%	36	0.056 U	0.052 U	--	--	--	--	--
Pentachlorodibenzofuran (Total)	30402154	pg/g	64%	36	0.037 U	0.024 U	--	--	--	--	--
TEQ WHO-98	TEQ	pg/g	92%	36	0.0020	0.0020	--	--	--	--	--
Tetrachlorodibenzodioxin (Total)	41903575	pg/g	42%	36	0.052 U	0.057 U	--	--	--	--	--
Tetrachlorodibenzofuran (Total)	55722275	pg/g	81%	36	0.057 U	0.052 U	--	--	--	--	--

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM642B2R**	**RM642B3c**	**RM642B3L**	**RM642B3R**	**RM658B1**	**RM658B2**	**RM658B3**
Date Collected:					15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	14-Apr-05	14-Apr-05	14-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1264	1252	1252	1253	1286	1277	1260
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
415.1											
Total organic carbon	E-10195	mg/Kg	98%	63	4,290	7,050	4,680	11,100	357	789	460
CLP TAL TotMetals											
Aluminum	7429905	mg/Kg	100%	63	10,900	8,950	13,600	12,300 J	4,810	5,810	2,760
Antimony	7440360	mg/Kg	63%	54	1.2 J	1.0 J	0.58 J	1.8 UJ	0.73 UR	1.2 UR	0.97 UR
Arsenic	7440382	mg/Kg	97%	63	6.3	3.2	6.4	4.5	2.2	1.9	0.97 U
Barium	7440393	mg/Kg	100%	63	96	84	158	106	38	53	21
Beryllium	7440417	mg/Kg	100%	63	0.70	0.65	1.0	0.92	0.37 J	0.44 J	0.21 J
Cadmium	7440439	mg/Kg	86%	63	0.46 J	0.98	1.9	2.0	0.22 J	0.11 J	0.056 J
Calcium	7440702	mg/Kg	100%	63	2,210	2,740	3,210	2,990	1,580	1,700	1,670
Chromium	7440473	mg/Kg	100%	63	13	14	18	18	9.6	13	5.7
Cobalt	7440484	mg/Kg	100%	63	6.0	6.1	9.2	7.7	3.7 J	4.1 J	2.1 J
Copper	7440508	mg/Kg	100%	63	11	14	23	21	7.4	9.0	4.9
Iron	7439896	mg/Kg	100%	63	15,500	14,000	18,700	17,400	9,720	9,800	4,930
Lead	7439921	mg/Kg	100%	63	23	31	24	119	5.1	5.4	3.1
Magnesium	7439954	mg/Kg	100%	63	3,630	3,690	4,370	4,260	2,390	2,590	1,540
Manganese	7439965	mg/Kg	100%	63	172	218	340	292	134	157	95
Mercury	7439976	mg/Kg	68%	63	0.035 J	0.073 J	0.065 J	0.27	0.10 U	0.11 U	0.10 U
Nickel	7440020	mg/Kg	100%	63	11	12	17	15	9.0	10	5.1
Potassium	7440097	mg/Kg	100%	63	1,670	1,540	3,060	2,030	519	719	317 J
Selenium	7782492	mg/Kg	26%	19	3.8 UR	4.0 UR	3.9 UR	3.6 UR	3.5 UR	3.7 UR	3.4 UR
Silver	7440224	mg/Kg	#VALUE!	63	1.1 UJ	1.2 UJ	1.1 UJ	1.0 UJ	1.0 UJ	1.1 UJ	0.97 UJ
Sodium	7440235	mg/Kg	89%	63	109 J	142 J	122 J	167 J	88 J	98 J	58 J
Thallium	7440280	mg/Kg	5%	63	2.7 U	2.9 U	2.8 U	2.5 U	2.5 U	2.7 U	2.4 U
Uranium	7440611	mg/Kg	27%	63	22 U	23 U	6.1 J	13 J	20 U	9.8 U	19 U
Vanadium	7440622	mg/Kg	100%	63	20	19	27	23	17	16	8.7
Zinc	7440666	mg/Kg	100%	63	156	185	149	366	47	33	21
CLP TCL PAH											
2-Methylnaphthalene	91576	µg/Kg	35%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Acenaphthene	83329	µg/Kg	11%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Acenaphthylene	208968	µg/Kg	14%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Anthracene	120127	µg/Kg	13%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Benzo(a)anthracene	56553	µg/Kg	30%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM642B2R**	**RM642B3c**	**RM642B3L**	**RM642B3R**	**RM658B1**	**RM658B2**	**RM658B3**
Date Collected:					15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	14-Apr-05	14-Apr-05	14-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1264	1252	1252	1253	1286	1277	1260
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Benzo(a)pyrene	50328	µg/Kg	24%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Benzo(b)fluoranthene	205992	µg/Kg	24%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Benzo(ghi)perylene	191242	µg/Kg	32%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Benzo(k)fluoranthene	207089	µg/Kg	14%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Chrysene	218019	µg/Kg	54%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Dibenzo(a,h)anthracene	53703	µg/Kg	17%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Dibenzofuran	132649	µg/Kg	22%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Fluoranthene	206440	µg/Kg	48%	63	5.0 U	0.60 J	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Fluorene	86737	µg/Kg	14%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Indeno[1,2,3-cd]pyrene	193395	µg/Kg	25%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Naphthalene	91203	µg/Kg	16%	63	3.8 U	6.6 U	4.2 U	5.1 U	3.5 U	3.6 U	4.0 U
Phenanthrene	85018	µg/Kg	44%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
Pyrene	129000	µg/Kg	48%	63	5.0 U	8.0 U	5.0 U	6.0 U	4.0 U	4.0 U	4.0 U
CLP TCL PCBs											
PCB-1016	12674112	µg/Kg	0%	63	0.93 U	1.6 U	1.0 U	6.3 U	0.86 U	0.88 U	0.88 U
PCB-1221	11104282	µg/Kg	0%	63	3.7 U	6.4 U	4.1 U	25 U	3.5 U	3.6 U	3.6 U
PCB-1232	11141165	µg/Kg	0%	63	3.7 U	6.4 U	4.1 U	25 U	3.5 U	3.6 U	3.6 U
PCB-1242	53469219	µg/Kg	0%	63	0.93 U	1.6 U	1.0 U	6.3 U	0.86 U	0.88 U	0.88 U
PCB-1248	12672296	µg/Kg	0%	63	0.93 U	1.6 U	1.0 U	6.3 U	0.86 U	0.88 U	0.88 U
PCB-1254	11097691	µg/Kg	0%	63	0.93 U	1.6 U	1.0 U	6.3 U	0.86 U	0.88 U	0.88 U
PCB-1260	11096825	µg/Kg	0%	63	0.93 U	1.6 U	1.0 U	6.3 U	0.86 U	0.88 U	0.88 U
CLP TCL Pesticides											
2,4'-DDD	53190	µg/Kg	0%	63	0.75 U	1.3 U	0.81 U	5.1 U	0.69 U	0.71 U	0.71 U
2,4'-DDE	3424826	µg/Kg	5%	63	0.75 U	1.3 U	0.74 J	17 J	0.69 U	0.71 U	0.71 U
2,4'-DDT	789026	µg/Kg	11%	63	0.75 U	1.3 U	2.7	57	0.69 U	0.71 U	0.71 U
4,4'-DDD	72548	µg/Kg	2%	63	0.75 U	1.3 U	0.81 U	2.1 J	0.69 U	0.71 U	0.71 U
4,4'-DDE	72559	µg/Kg	11%	63	0.75 U	1.3 U	2.7	63	0.69 U	0.71 U	0.71 U
4,4'-DDT	50293	µg/Kg	33%	63	0.28 J	0.18 J	10	200 J	0.69 U	0.71 U	0.71 U
Aldrin	309002	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
alpha-BHC	319846	µg/Kg	2%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
alpha-Chlordane	5103719	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
beta-BHC	319857	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
cis-Nonachlor	5103731	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM642B2R**	**RM642B3c**	**RM642B3L**	**RM642B3R**	**RM658B1**	**RM658B2**	**RM658B3**
Date Collected:					15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	14-Apr-05	14-Apr-05	14-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1264	1252	1252	1253	1286	1277	1260
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
delta-BHC	319868	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
Dieldrin	60571	µg/Kg	0%	63	0.75 U	1.3 U	0.81 U	5.1 U	0.69 U	0.71 U	0.71 U
Endosulfan I	959988	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
Endosulfan II	33213659	µg/Kg	0%	63	0.75 U	1.3 U	0.81 U	5.1 U	0.69 U	0.71 U	0.71 U
Endosulfan sulfate	1031078	µg/Kg	0%	63	0.75 U	1.3 U	0.81 U	5.1 U	0.69 U	0.71 U	0.71 U
Endrin	72208	µg/Kg	0%	63	0.75 U	1.3 U	0.81 U	5.1 U	0.69 U	0.71 U	0.71 U
Endrin aldehyde	7421934	µg/Kg	0%	63	0.75 U	1.3 U	0.81 U	5.1 U	0.69 U	0.71 U	0.71 U
Endrin ketone	53494705	µg/Kg	0%	63	0.75 U	1.3 U	0.81 U	5.1 U	0.69 U	0.71 U	0.71 U
gamma-BHC (Lindane)	58899	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
gamma-Chlordane	5566347	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
Heptachlor	76448	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
Heptachlor epoxide	1024573	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
Hexachlorobenzene	118741	µg/Kg	6%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
Hexachlorobutadiene	87683	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
Methoxychlor	72435	µg/Kg	5%	63	3.7 U	6.3 U	4.0 U	25 U	3.4 U	3.5 U	3.5 U
Oxychlordane	27304138	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
Toxaphene	8001352	µg/Kg	0%	63	37 U	63 U	40 U	250 U	34 U	35 U	35 U
trans-Nonachlor	39765805	µg/Kg	0%	63	0.37 U	0.63 U	0.40 U	2.6 U	0.34 U	0.35 U	0.35 U
CLP TCL SVOC											
1,1'-Biphenyl	92524	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
1,2,4-Trichlorobenzene	120821	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
1,2-Dichlorobenzene	95501	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
1,3-Dichlorobenzene	541731	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
1,4-Dichlorobenzene	106467	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
2,2'-oxybis(1-chloropropane)	108601	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
2,4,5-Trichlorophenol	95954	µg/Kg	0%	63	240 U	400 U	260 U	320 U	220 U	220 U	220 U
2,4,6-Trichlorophenol	88062	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
2,4-Dichlorophenol	120832	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
2,4-Dimethylphenol	105679	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
2,4-Dinitrophenol	51285	µg/Kg	0%	53	240 U	400 U	260 U	320 U	220 UJ	220 UJ	220 UJ
2,4-Dinitrotoluene	121142	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
2,6-Dinitrotoluene	606202	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 UJ	88 UJ	88 UJ
2-Chloronaphthalene	91587	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM642B2R**	**RM642B3c**	**RM642B3L**	**RM642B3R**	**RM658B1**	**RM658B2**	**RM658B3**
Date Collected:					15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	14-Apr-05	14-Apr-05	14-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1264	1252	1252	1253	1286	1277	1260
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
2-Chlorophenol	95578	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
2-Methylphenol	95487	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
2-Nitroaniline	88744	µg/Kg	0%	63	240 U	400 U	260 U	320 U	220 U	220 U	220 U
2-Nitrophenol	88755	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
3,3'-Dichlorobenzidine	91941	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
3-Nitroaniline	99092	µg/Kg	0%	63	240 U	400 U	260 U	320 U	220 U	220 U	220 U
4,6-Dinitro-2-methylphenol	534521	µg/Kg	0%	63	240 U	400 U	260 U	320 U	220 UJ	220 UJ	220 UJ
4-Bromophenyl-phenylether	101553	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
4-Chloro-3-methylphenol	59507	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
4-Chloroaniline	106478	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
4-Chlorophenyl-phenyl ether	7005723	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
4-Methylphenol	106445	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
4-Nitroaniline	100016	µg/Kg	0%	63	240 U	400 U	260 U	320 U	220 U	220 U	220 U
4-Nitrophenol	100027	µg/Kg	0%	63	240 U	400 U	260 U	320 U	220 U	220 U	220 U
Acetophenone	98862	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Atrazine	1912249	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Benzaldehyde	100527	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Benzoic acid	65850	µg/Kg	0%	46	93 UJ	160 U	100 U	130 U	220 UR	220 UR	220 UR
Benzyl alcohol	100516	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
bis(2-Chloroethoxy)methane	111911	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Bis(2-chloroethyl)ether	111444	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Bis(2-ethylhexyl)phthalate	117817	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Butyl benzyl phthalate	85687	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Caprolactam	105602	µg/Kg	3%	63	93 U	160 U	55 J	130 U	86 U	88 U	88 U
Carbazole	86748	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Di-n-butyl phthalate	84742	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Di-n-octylphthalate	117840	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Diethyl phthalate	84662	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 UJ	88 UJ	88 UJ
Dimethyl phthalate	131113	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Hexachloroethane	67721	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Isophorone	78591	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
N-Nitrosodi-n-propylamine	621647	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
N-Nitrosodiphenylamine	86306	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Nitrobenzene	98953	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM642B2R**	**RM642B3c**	**RM642B3L**	**RM642B3R**	**RM658B1**	**RM658B2**	**RM658B3**
Date Collected:					15-Apr-05	15-Apr-05	15-Apr-05	15-Apr-05	14-Apr-05	14-Apr-05	14-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1264	1252	1252	1253	1286	1277	1260
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Pentachlorophenol	87865	µg/Kg	0%	63	240 U	400 U	260 U	320 U	220 U	220 U	220 U
Perchlorocyclopentadiene	77474	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Phenol	108952	µg/Kg	0%	63	93 U	160 U	100 U	130 U	86 U	88 U	88 U
Dioxins and Furans											
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822469	pg/g	47%	36	--	--	--	--	0.28 U	0.40 U	0.18 U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	pg/g	58%	36	--	--	--	--	0.078 U	0.079 U	0.047 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	pg/g	3%	36	--	--	--	--	0.075 U	0.070 U	0.074 U
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227286	pg/g	39%	36	--	--	--	--	0.068 U	0.048 U	0.071 U
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	pg/g	11%	36	--	--	--	--	0.039 U	0.018 U	0.034 U
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653857	pg/g	44%	36	--	--	--	--	0.070 U	0.052 U	0.071 U
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	pg/g	19%	36	--	--	--	--	0.023 J	0.028 U	0.019 J
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408743	pg/g	42%	36	--	--	--	--	0.069 U	0.050 U	0.071 U
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	pg/g	6%	36	--	--	--	--	0.063 U	0.047 U	0.028 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764	pg/g	28%	36	--	--	--	--	0.041 U	0.051 U	0.039 U
1,2,3,7,8-Pentachlorodibenzofuran	57117416	pg/g	19%	36	--	--	--	--	0.031 U	0.021 U	0.020 U
2,3,4,6,7,8-Hexachlorodibenzofuran	60851345	pg/g	17%	36	--	--	--	--	0.041 U	0.028 U	0.016 J
2,3,4,7,8-Pentachlorodibenzofuran	57117314	pg/g	33%	36	--	--	--	--	0.029 U	0.034 U	0.028 U
2,3,7,8-Tetrachlorodibenzodioxin	1746016	pg/g	19%	36	--	--	--	--	0.047 U	0.035 U	0.042 U
2,3,7,8-Tetrachlorodibenzofuran	51207319	pg/g	64%	36	--	--	--	--	0.10 U	0.067 U	0.12 U
Heptachlorodibenzodioxin (Total)	37871004	pg/g	83%	36	--	--	--	--	0.28 J	1.1 J	0.39 U
Heptachlorodibenzofuran (Total)	38998753	pg/g	72%	36	--	--	--	--	0.078 J	0.24 U	0.056 U
Hexachlorodibenzodioxin (Total)	34465468	pg/g	81%	36	--	--	--	--	0.069 U	0.050 U	0.071 U
Hexachlorodibenzofuran (Total)	55684941	pg/g	86%	36	--	--	--	--	0.035	0.080 U	0.035
Octachlorodibenzodioxin	3268879	pg/g	58%	36	--	--	--	--	3.3 U	7.2 U	1.7 U
Octachlorodibenzofuran	39001020	pg/g	58%	36	--	--	--	--	0.097 U	0.33 U	0.14 U
Pentachlorodibenzodioxin (Total)	36088229	pg/g	53%	36	--	--	--	--	0.041 U	0.051 U	0.039 U
Pentachlorodibenzofuran (Total)	30402154	pg/g	64%	36	--	--	--	--	0.058 U	0.068 U	0.028 U
TEQ WHO-98	TEQ	pg/g	92%	36	--	--	--	--	0.0023	0 U	0.0035
Tetrachlorodibenzodioxin (Total)	41903575	pg/g	42%	36	--	--	--	--	0.047 U	0.035 U	0.042 U
Tetrachlorodibenzofuran (Total)	55722275	pg/g	81%	36	--	--	--	--	0.25 J	0.14 U	0.26 J

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM673B1**	**RM673B2**	**RM673B3**	**RM675B1**	**RM675B2**	**RM675B3**	**RM690B1**
Date Collected:					16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	13-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1282	1277	1278	1283	1272	1253	1285
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
415.1											
Total organic carbon	E-10195	mg/Kg	98%	63	1,500	3,680	4,660	7,430	3,470	5,330	2,530
CLP TAL TotMetals											
Aluminum	7429905	mg/Kg	100%	63	9,080 J	12,200 J	10,200 J	7,780 J	7,520	12,300	6,550
Antimony	7440360	mg/Kg	63%	54	1.2 J	1.5 J	1.1 J	1.0 J	1.1 J	1.6 J	0.42 UJ
Arsenic	7440382	mg/Kg	97%	63	4.1	5.3	3.6	2.3	3.6	7.0	2.4
Barium	7440393	mg/Kg	100%	63	78	117	78	66	80	152	62
Beryllium	7440417	mg/Kg	100%	63	0.66	0.90	0.68	0.63	0.59 J	0.93 J	0.46
Cadmium	7440439	mg/Kg	86%	63	0.17 J	0.74	1.0	3.1	0.63	2.4	0.51
Calcium	7440702	mg/Kg	100%	63	2,990	4,120	2,520	3,100	6,050	5,200	4,830
Chromium	7440473	mg/Kg	100%	63	15	24	18	20	18	28	13
Cobalt	7440484	mg/Kg	100%	63	6.4	10	6.9	5.6 J	6.7	10	4.5
Copper	7440508	mg/Kg	100%	63	12	20	15	15	16	29	11
Iron	7439896	mg/Kg	100%	63	14,800	21,100	16,000	13,300	15,200 J	22,600 J	11,000
Lead	7439921	mg/Kg	100%	63	6.7	20	34	51	16	102	21
Magnesium	7439954	mg/Kg	100%	63	3,550	4,970	3,700	4,040	4,520	6,530	4,590
Manganese	7439965	mg/Kg	100%	63	248	383	167	145	194	526	208
Mercury	7439976	mg/Kg	68%	63	0.010 J	0.031 J	0.053 J	0.062 J	0.030 J	0.21	0.099 U
Nickel	7440020	mg/Kg	100%	63	13	21	16	14	16	24	15
Potassium	7440097	mg/Kg	100%	63	1,160	2,020	1,220	1,200	1,210	2,190	749
Selenium	7782492	mg/Kg	26%	19	4.0 UR	4.3 UR	4.2 UR	4.3 UR	3.7 UR	4.3 UR	3.1 UR
Silver	7440224	mg/Kg	#VALUE!	63	1.1 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.1 U	1.2 U	0.89 UJ
Sodium	7440235	mg/Kg	89%	63	129 J	173 J	115 J	94 J	147 J	245 J	134 J
Thallium	7440280	mg/Kg	5%	63	2.9 U	3.1 U	3.0 U	3.1 U	2.7 UJ	3.1 UJ	2.2 U
Uranium	7440611	mg/Kg	27%	63	23 U	25 U	24 U	24 U	21 UJ	25 UJ	18 U
Vanadium	7440622	mg/Kg	100%	63	26	33	27	22	27	36	22
Zinc	7440666	mg/Kg	100%	63	49	118	158	220	90	295	92
CLP TCL PAH											
2-Methylnaphthalene	91576	µg/Kg	35%	63	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.70 J	0.20 J
Acenaphthene	83329	µg/Kg	11%	63	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.0 U	4.0 U
Acenaphthylene	208968	µg/Kg	14%	63	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.0 U	4.0 U
Anthracene	120127	µg/Kg	13%	63	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.0 U	4.0 U
Benzo(a)anthracene	56553	µg/Kg	30%	63	5.0 U	5.0 U	5.0 U	0.40 J	5.0 U	1.0 J	4.0 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM673B1**	**RM673B2**	**RM673B3**	**RM675B1**	**RM675B2**	**RM675B3**	**RM690B1**
Date Collected:					16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	13-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1282	1277	1278	1283	1272	1253	1285
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Benzo(a)pyrene	50328	µg/Kg	24%	63	5.0 U	5.0 U	5.0 U	0.40 J	5.0 U	1.0 J	4.0 U
Benzo(b)fluoranthene	205992	µg/Kg	24%	63	5.0 U	5.0 U	5.0 U	0.60 J	5.0 U	1.0 J	4.0 U
Benzo(ghi)perylene	191242	µg/Kg	32%	63	5.0 U	5.0 U	5.0 U	0.40 J	5.0 U	1.0 J	4.0 U
Benzo(k)fluoranthene	207089	µg/Kg	14%	63	5.0 U	5.0 U	5.0 U	0.40 J	5.0 U	0.70 J	4.0 U
Chrysene	218019	µg/Kg	54%	63	5.0 U	5.0 U	5.0 U	0.60 J	5.0 U	2.0 J	0.30 J
Dibenzo(a,h)anthracene	53703	µg/Kg	17%	63	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.0 U	4.0 U
Dibenzofuran	132649	µg/Kg	22%	63	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.50 J	4.0 U
Fluoranthene	206440	µg/Kg	48%	63	5.0 U	5.0 U	5.0 U	0.60 J	5.0 U	2.0 J	0.20 J
Fluorene	86737	µg/Kg	14%	63	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.0 U	4.0 U
Indeno[1,2,3-cd]pyrene	193395	µg/Kg	25%	63	5.0 U	5.0 U	5.0 U	0.40 J	5.0 U	0.70 J	4.0 U
Naphthalene	91203	µg/Kg	16%	63	4.0 U	4.4 U	4.1 U	3.8 U	4.2 U	1.0 J	0.50 U
Phenanthrene	85018	µg/Kg	44%	63	5.0 U	5.0 U	5.0 U	0.40 J	5.0 U	1.0 J	4.0 U
Pyrene	129000	µg/Kg	48%	63	5.0 U	5.0 U	5.0 U	0.60 J	5.0 U	1.0 J	4.0 U
CLP TCL PCBs											
PCB-1016	12674112	µg/Kg	0%	63	0.97 UJ	1.1 U	1.0 UJ	0.92 U	1.0 UJ	1.2 U	0.87 U
PCB-1221	11104282	µg/Kg	0%	63	3.9 UJ	4.3 U	4.0 UJ	3.7 U	4.1 UJ	4.8 U	3.6 U
PCB-1232	11141165	µg/Kg	0%	63	3.9 UJ	4.3 U	4.0 UJ	3.7 U	4.1 UJ	4.8 U	3.6 U
PCB-1242	53469219	µg/Kg	0%	63	0.97 UJ	1.1 U	1.0 UJ	0.92 U	1.0 UJ	1.2 U	0.87 U
PCB-1248	12672296	µg/Kg	0%	63	0.97 UJ	1.1 U	1.0 UJ	0.92 U	1.0 UJ	1.2 U	0.87 U
PCB-1254	11097691	µg/Kg	0%	63	0.97 UJ	1.1 U	1.0 UJ	0.92 U	1.0 UJ	1.2 U	0.87 U
PCB-1260	11096825	µg/Kg	0%	63	0.97 UJ	1.1 U	1.0 UJ	0.92 U	1.0 UJ	1.2 U	0.87 U
CLP TCL Pesticides											
2,4'-DDD	53190	µg/Kg	0%	63	0.79 U	0.86 U	0.81 U	0.75 U	0.82 U	0.97 U	0.70 U
2,4'-DDE	3424826	µg/Kg	5%	63	0.79 U	0.86 U	0.81 U	0.75 U	0.82 U	0.97 U	0.70 U
2,4'-DDT	789026	µg/Kg	11%	63	0.79 U	0.86 U	0.81 U	0.75 U	0.82 U	0.97 U	0.70 U
4,4'-DDD	72548	µg/Kg	2%	63	0.79 U	0.86 U	0.81 U	0.75 U	0.82 U	0.97 U	0.70 U
4,4'-DDE	72559	µg/Kg	11%	63	0.79 U	0.86 U	0.81 U	0.75 U	0.82 U	0.97 U	0.70 U
4,4'-DDT	50293	µg/Kg	33%	63	0.79 U	0.27 J	0.81 U	0.81 J	0.25 J	0.23 J	0.70 U
Aldrin	309002	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
alpha-BHC	319846	µg/Kg	2%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
alpha-Chlordane	5103719	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
beta-BHC	319857	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
cis-Nonachlor	5103731	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM673B1**	**RM673B2**	**RM673B3**	**RM675B1**	**RM675B2**	**RM675B3**	**RM690B1**
Date Collected:					16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	13-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1282	1277	1278	1283	1272	1253	1285
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
delta-BHC	319868	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
Dieldrin	60571	µg/Kg	0%	63	0.79 U	0.86 U	0.81 U	0.75 U	0.82 U	0.97 U	0.70 U
Endosulfan I	959988	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
Endosulfan II	33213659	µg/Kg	0%	63	0.79 U	0.86 U	0.81 U	0.75 U	0.82 U	0.97 U	0.70 U
Endosulfan sulfate	1031078	µg/Kg	0%	63	0.79 U	0.86 U	0.81 U	0.75 U	0.82 U	0.97 U	0.70 U
Endrin	72208	µg/Kg	0%	63	0.79 U	0.86 U	0.81 U	0.75 U	0.82 U	0.97 U	0.70 U
Endrin aldehyde	7421934	µg/Kg	0%	63	0.79 U	0.86 U	0.81 U	0.75 U	0.82 U	0.97 U	0.70 U
Endrin ketone	53494705	µg/Kg	0%	63	0.79 U	0.86 U	0.81 U	0.75 U	0.82 U	0.97 U	0.70 U
gamma-BHC (Lindane)	58899	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
gamma-Chlordane	5566347	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
Heptachlor	76448	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
Heptachlor epoxide	1024573	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
Hexachlorobenzene	118741	µg/Kg	6%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
Hexachlorobutadiene	87683	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
Methoxychlor	72435	µg/Kg	5%	63	3.9 U	4.2 U	4.0 U	3.7 U	4.1 U	4.8 U	3.5 U
Oxychlordane	27304138	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
Toxaphene	8001352	µg/Kg	0%	63	39 U	42 U	40 U	37 U	41 U	48 U	35 U
trans-Nonachlor	39765805	µg/Kg	0%	63	0.39 U	0.42 U	0.40 U	0.37 U	0.41 U	0.48 U	0.35 U
CLP TCL SVOC											
1,1'-Biphenyl	92524	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
1,2,4-Trichlorobenzene	120821	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
1,2-Dichlorobenzene	95501	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
1,3-Dichlorobenzene	541731	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
1,4-Dichlorobenzene	106467	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
2,2'-oxybis(1-chloropropane)	108601	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
2,4,5-Trichlorophenol	95954	µg/Kg	0%	63	250 U	270 U	260 U	230 U	260 U	300 U	220 U
2,4,6-Trichlorophenol	88062	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
2,4-Dichlorophenol	120832	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
2,4-Dimethylphenol	105679	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
2,4-Dinitrophenol	51285	µg/Kg	0%	53	250 U	270 U	260 UR	230 U	260 U	300 U	220 U
2,4-Dinitrotoluene	121142	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
2,6-Dinitrotoluene	606202	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
2-Chloronaphthalene	91587	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM673B1**	**RM673B2**	**RM673B3**	**RM675B1**	**RM675B2**	**RM675B3**	**RM690B1**
Date Collected:					16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	13-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1282	1277	1278	1283	1272	1253	1285
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
2-Chlorophenol	95578	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
2-Methylphenol	95487	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
2-Nitroaniline	88744	µg/Kg	0%	63	250 U	270 U	260 U	230 U	260 U	300 U	220 U
2-Nitrophenol	88755	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
3,3'-Dichlorobenzidine	91941	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
3-Nitroaniline	99092	µg/Kg	0%	63	250 U	270 U	260 U	230 U	260 U	300 U	220 U
4,6-Dinitro-2-methylphenol	534521	µg/Kg	0%	63	250 U	270 U	260 U	230 U	260 U	300 U	220 U
4-Bromophenyl-phenylether	101553	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
4-Chloro-3-methylphenol	59507	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
4-Chloroaniline	106478	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
4-Chlorophenyl-phenyl ether	7005723	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
4-Methylphenol	106445	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
4-Nitroaniline	100016	µg/Kg	0%	63	250 U	270 U	260 UJ	230 U	260 U	300 U	220 U
4-Nitrophenol	100027	µg/Kg	0%	63	250 U	270 U	260 U	230 U	260 U	300 U	220 U
Acetophenone	98862	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Atrazine	1912249	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Benzaldehyde	100527	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Benzoic acid	65850	µg/Kg	0%	46	98 UR	110 UR	100 U	93 UR	100 UR	120 UR	86 UJ
Benzyl alcohol	100516	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
bis(2-Chloroethoxy)methane	111911	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Bis(2-chloroethyl)ether	111444	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Bis(2-ethylhexyl)phthalate	117817	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Butyl benzyl phthalate	85687	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Caprolactam	105602	µg/Kg	3%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Carbazole	86748	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Di-n-butyl phthalate	84742	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Di-n-octylphthalate	117840	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Diethyl phthalate	84662	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Dimethyl phthalate	131113	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Hexachloroethane	67721	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Isophorone	78591	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
N-Nitrosodi-n-propylamine	621647	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
N-Nitrosodiphenylamine	86306	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Nitrobenzene	98953	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM673B1**	**RM673B2**	**RM673B3**	**RM675B1**	**RM675B2**	**RM675B3**	**RM690B1**
Date Collected:					16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	16-Apr-05	13-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1282	1277	1278	1283	1272	1253	1285
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Pentachlorophenol	87865	µg/Kg	0%	63	250 U	270 U	260 U	230 U	260 U	300 U	220 U
Perchlorocyclopentadiene	77474	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Phenol	108952	µg/Kg	0%	63	98 U	110 U	100 U	93 U	100 U	120 U	86 U
Dioxins and Furans											
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822469	pg/g	47%	36	0.55 U	2.2	3.6	6.4	3.0	2.0 U	0.62 U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	pg/g	58%	36	0.12 U	0.51 J	0.62 J	0.53 J	0.36 J	0.38 J	0.13 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	pg/g	3%	36	0.071 U	0.16 U	0.093 U	0.11 U	0.15 U	0.077 U	0.12 U
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227286	pg/g	39%	36	0.079 U	0.096 U	0.079 U	0.23 J	0.16 U	0.059 J	0.12 U
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	pg/g	11%	36	0.047 J	0.10 U	0.094 J	0.063 U	0.10 U	0.064 U	0.047 U
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653857	pg/g	44%	36	0.088 U	0.27 J	0.25 J	0.37 J	0.24 J	0.11 J	0.12 U
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	pg/g	19%	36	0.046 U	0.048 J	0.057 J	0.053 U	0.11 U	0.063 U	0.043 U
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408743	pg/g	42%	36	0.084 U	0.16 J	0.15 J	0.27 J	0.16 U	0.094 U	0.12 U
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	pg/g	6%	36	0.070 U	0.10 J	0.037 J	0.086 U	0.17 U	0.10 U	0.071 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764	pg/g	28%	36	0.057 U	0.11 J	0.081 J	0.13 J	0.10 U	0.051 U	0.055 U
1,2,3,7,8-Pentachlorodibenzofuran	57117416	pg/g	19%	36	0.041 U	0.049 U	0.058 U	0.075 U	0.057 U	0.044 U	0.039 U
2,3,4,6,7,8-Hexachlorodibenzofuran	60851345	pg/g	17%	36	0.057 J	0.046 J	0.069 J	0.10 U	0.11 U	0.062 U	0.046 U
2,3,4,7,8-Pentachlorodibenzofuran	57117314	pg/g	33%	36	0.047 U	0.14 U	0.099 U	0.093 U	0.095 U	0.082 U	0.039 U
2,3,7,8-Tetrachlorodibenzodioxin	1746016	pg/g	19%	36	0.045 U	0.063 U	0.052 U	0.094 J	0.10 U	0.061 U	0.076 U
2,3,7,8-Tetrachlorodibenzofuran	51207319	pg/g	64%	36	0.084 U	0.78	1.2	1.4	0.72	1.9	0.65
Heptachlorodibenzodioxin (Total)	37871004	pg/g	83%	36	1.1 U	4.2 J	7.2 J	13	6.1	4.5	0.85 U
Heptachlorodibenzofuran (Total)	38998753	pg/g	72%	36	0.22 U	1.1 J	1.4 J	1.2 U	0.36	0.95 J	0.13 U
Hexachlorodibenzodioxin (Total)	34465468	pg/g	81%	36	0.076	0.42	0.80	3.0	1.4	1.2	0.080
Hexachlorodibenzofuran (Total)	55684941	pg/g	86%	36	0.12	0.53	0.65	1.2	0.36	0.47	0.089
Octachlorodibenzodioxin	3268879	pg/g	58%	36	3.3 U	17	42	52	23	15	4.4 U
Octachlorodibenzofuran	39001020	pg/g	58%	36	0.21 U	0.98 J	1.4 J	0.74 J	0.65 J	0.70 J	0.20 U
Pentachlorodibenzodioxin (Total)	36088229	pg/g	53%	36	0.17	0.64	0.38	0.40	0.92	0.049	0.055 U
Pentachlorodibenzofuran (Total)	30402154	pg/g	64%	36	0.088 U	0.30	0.59 J	0.54	0.20 J	0.59 J	0.049 U
TEQ WHO-98	TEQ	pg/g	92%	36	0.011	0.27	0.31	0.54	0.13	0.41	0.065
Tetrachlorodibenzodioxin (Total)	41903575	pg/g	42%	36	0.045 U	0.39	0.12	0.094	0.60	0.14	0.076 U
Tetrachlorodibenzofuran (Total)	55722275	pg/g	81%	36	0.084 U	1.2 J	2.2 J	1.0	1.6 J	4.1 J	0.95 J

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					RM690B2	RM690B3	RM697B1	RM697B2	RM697B3	RM700B1c	RM700B1L
Date Collected:					13-Apr-05	13-Apr-05	13-Apr-05	13-Apr-05	13-Apr-05	12-Apr-05	12-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample
Elevation:					1274	1259	1284	1282	1277	1285	1288
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
415.1											
Total organic carbon	E-10195	mg/Kg	98%	63	2,360	3,700	1,430	725	23,200	475	430
CLP TAL TotMetals											
Aluminum	7429905	mg/Kg	100%	63	6,050	6,370	3,000	7,660	13,000	5,400	4,600
Antimony	7440360	mg/Kg	63%	54	1.0 UJ	0.95 UJ	0.29 UJ	1.8 J	1.8 J	0.37 UJ	0.61 UJ
Arsenic	7440382	mg/Kg	97%	63	2.4	2.6	1.0	1.4	2.3	1.4	1.5
Barium	7440393	mg/Kg	100%	63	58	56	30	102	232	48 J	44 J
Beryllium	7440417	mg/Kg	100%	63	0.51 J	0.52 J	0.28 J	0.69	1.2 J	0.36 J	0.32 J
Cadmium	7440439	mg/Kg	86%	63	0.33 J	0.45 J	0.32 J	4.4	7.8	0.11 J	0.18 J
Calcium	7440702	mg/Kg	100%	63	2,430	3,050	879	2,550	5,670	2,220	1,900
Chromium	7440473	mg/Kg	100%	63	12	13	5.6	15	25	11 J	9.1 J
Cobalt	7440484	mg/Kg	100%	63	4.3 J	4.9 J	2.3 J	5.2 J	8.7	3.8 J	3.1 J
Copper	7440508	mg/Kg	100%	63	15	14	4.2	17	34	9.9	11
Iron	7439896	mg/Kg	100%	63	9,960	12,000	5,180	11,800	18,100	11,300	8,640
Lead	7439921	mg/Kg	100%	63	19	22	17	136	222	5.2	6.0
Magnesium	7439954	mg/Kg	100%	63	2,770	3,980	1,390	3,210	5,220	3,230	2,560
Manganese	7439965	mg/Kg	100%	63	171	260	111	158	267	259	125
Mercury	7439976	mg/Kg	68%	63	0.019 J	0.030 J	0.099 U	0.29	0.80 J	0.11 U	0.11 U
Nickel	7440020	mg/Kg	100%	63	9.6	11	4.1	11	20	8.3	7.4
Potassium	7440097	mg/Kg	100%	63	843	775	483	1,120	2,260	558	585
Selenium	7782492	mg/Kg	26%	19	3.6 UR	3.9 UR	3.0 UR	4.0 UR	5.3 UR	3.5 UR	0.63 R
Silver	7440224	mg/Kg	#VALUE!	63	1.0 UJ	1.1 UJ	0.86 UJ	1.2 UJ	1.5 UJ	1.0 U	0.91 U
Sodium	7440235	mg/Kg	89%	63	131 J	155 J	60 J	125 J	242 J	91 U	97 U
Thallium	7440280	mg/Kg	5%	63	2.6 U	2.8 U	2.2 U	2.9 U	3.8 U	2.5 U	2.3 U
Uranium	7440611	mg/Kg	27%	63	8.4 J	22 U	17 U	23 U	30 U	20 UJ	18 UJ
Vanadium	7440622	mg/Kg	100%	63	20	22	9.1	20	29	27	17
Zinc	7440666	mg/Kg	100%	63	67	97	54	391	700	33	36
CLP TCL PAH											
2-Methylnaphthalene	91576	µg/Kg	35%	63	0.20 J	5.0 U	4.0 U	0.40 J	0.60 J	4.0 U	4.0 U
Acenaphthene	83329	µg/Kg	11%	63	4.0 U	5.0 U	4.0 U	6.0 U	7.0 UJ	4.0 U	4.0 U
Acenaphthylene	208968	µg/Kg	14%	63	4.0 U	5.0 U	4.0 U	6.0 U	7.0 U	4.0 U	4.0 U
Anthracene	120127	µg/Kg	13%	63	4.0 U	5.0 U	4.0 U	6.0 U	7.0 U	4.0 U	4.0 U
Benzo(a)anthracene	56553	µg/Kg	30%	63	4.0 U	5.0 U	4.0 U	6.0 U	0.60 J	4.0 U	4.0 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM690B2**	**RM690B3**	**RM697B1**	**RM697B2**	**RM697B3**	**RM700B1c**	**RM700B1L**
Date Collected:					13-Apr-05	13-Apr-05	13-Apr-05	13-Apr-05	13-Apr-05	12-Apr-05	12-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample
Elevation:					1274	1259	1284	1282	1277	1285	1288
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Benzo(a)pyrene	50328	µg/Kg	24%	63	4.0 U	5.0 U	4.0 U	0.40 J	0.60 J	4.0 U	4.0 U
Benzo(b)fluoranthene	205992	µg/Kg	24%	63	4.0 U	0.40 J	4.0 U	0.40 J	0.80 J	4.0 U	4.0 U
Benzo(ghi)perylene	191242	µg/Kg	32%	63	4.0 U	5.0 U	4.0 U	6.0 U	7.0 U	4.0 U	4.0 U
Benzo(k)fluoranthene	207089	µg/Kg	14%	63	4.0 U	5.0 U	4.0 U	0.40 J	0.60 J	4.0 U	4.0 U
Chrysene	218019	µg/Kg	54%	63	0.40 J	0.40 J	4.0 U	0.40 J	0.80 J	0.20 J	0.20 J
Dibenzo(a,h)anthracene	53703	µg/Kg	17%	63	4.0 U	5.0 U	4.0 U	6.0 U	7.0 U	4.0 U	4.0 U
Dibenzofuran	132649	µg/Kg	22%	63	4.0 U	5.0 U	4.0 U	6.0 U	7.0 UJ	4.0 U	4.0 U
Fluoranthene	206440	µg/Kg	48%	63	0.40 J	0.40 J	4.0 U	0.40 J	1.0 J	4.0 U	4.0 U
Fluorene	86737	µg/Kg	14%	63	4.0 U	5.0 U	4.0 U	6.0 U	7.0 UJ	4.0 U	4.0 U
Indeno[1,2,3-cd]pyrene	193395	µg/Kg	25%	63	4.0 U	5.0 U	4.0 U	6.0 U	7.0 U	4.0 U	4.0 U
Naphthalene	91203	µg/Kg	16%	63	0.40 U	0.40 U	3.6 U	0.40 U	0.80 U	3.5 U	3.6 U
Phenanthrene	85018	µg/Kg	44%	63	0.40 J	0.20 J	4.0 U	0.40 J	1.0 J	4.0 U	4.0 U
Pyrene	129000	µg/Kg	48%	63	4.0 U	0.40 J	4.0 U	0.40 J	0.80 J	4.0 U	0.20 J
CLP TCL PCBs											
PCB-1016	12674112	µg/Kg	0%	63	0.89 U	1.0 U	0.87 U	1.1 U	1.4 U	0.85 U	0.88 U
PCB-1221	11104282	µg/Kg	0%	63	3.6 U	4.1 U	3.6 U	4.4 U	5.7 U	3.4 U	3.6 U
PCB-1232	11141165	µg/Kg	0%	63	3.6 U	4.1 U	3.6 U	4.4 U	5.7 U	3.4 U	3.6 U
PCB-1242	53469219	µg/Kg	0%	63	0.89 U	1.0 U	0.87 U	1.1 U	1.4 U	0.85 U	0.88 U
PCB-1248	12672296	µg/Kg	0%	63	0.89 U	1.0 U	0.87 U	1.1 U	1.4 U	0.85 U	0.88 U
PCB-1254	11097691	µg/Kg	0%	63	0.89 U	1.0 U	0.87 U	1.1 U	1.4 U	0.85 U	0.88 U
PCB-1260	11096825	µg/Kg	0%	63	0.89 U	1.0 U	0.87 U	1.1 U	1.4 U	0.85 U	0.88 U
CLP TCL Pesticides											
2,4'-DDD	53190	µg/Kg	0%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
2,4'-DDE	3424826	µg/Kg	5%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
2,4'-DDT	789026	µg/Kg	11%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
4,4'-DDD	72548	µg/Kg	2%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
4,4'-DDE	72559	µg/Kg	11%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
4,4'-DDT	50293	µg/Kg	33%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
Aldrin	309002	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
alpha-BHC	319846	µg/Kg	2%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
alpha-Chlordane	5103719	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
beta-BHC	319857	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
cis-Nonachlor	5103731	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM690B2**	**RM690B3**	**RM697B1**	**RM697B2**	**RM697B3**	**RM700B1c**	**RM700B1L**
Date Collected:					13-Apr-05	13-Apr-05	13-Apr-05	13-Apr-05	13-Apr-05	12-Apr-05	12-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample
Elevation:					1274	1259	1284	1282	1277	1285	1288
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
delta-BHC	319868	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
Dieldrin	60571	µg/Kg	0%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
Endosulfan I	959988	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
Endosulfan II	33213659	µg/Kg	0%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
Endosulfan sulfate	1031078	µg/Kg	0%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
Endrin	72208	µg/Kg	0%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
Endrin aldehyde	7421934	µg/Kg	0%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
Endrin ketone	53494705	µg/Kg	0%	63	0.72 U	0.83 U	0.70 U	0.89 U	1.1 U	0.69 U	0.71 U
gamma-BHC (Lindane)	58899	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
gamma-Chlordane	5566347	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
Heptachlor	76448	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
Heptachlor epoxide	1024573	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
Hexachlorobenzene	118741	µg/Kg	6%	63	0.35 U	0.41 U	0.092 J	0.44 U	0.56 U	0.34 U	0.35 U
Hexachlorobutadiene	87683	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
Methoxychlor	72435	µg/Kg	5%	63	3.6 U	4.1 U	3.5 U	4.4 U	5.6 U	3.4 J	0.85 J
Oxychlordane	27304138	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
Toxaphene	8001352	µg/Kg	0%	63	35 U	41 U	35 U	44 U	56 U	34 U	35 U
trans-Nonachlor	39765805	µg/Kg	0%	63	0.35 U	0.41 U	0.35 U	0.44 U	0.56 U	0.34 U	0.35 U
CLP TCL SVOC											
1,1'-Biphenyl	92524	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
1,2,4-Trichlorobenzene	120821	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
1,2-Dichlorobenzene	95501	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
1,3-Dichlorobenzene	541731	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
1,4-Dichlorobenzene	106467	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
2,2'-oxybis(1-chloropropane)	108601	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
2,4,5-Trichlorophenol	95954	µg/Kg	0%	63	220 U	260 U	220 U	280 U	360 U	210 U	220 U
2,4,6-Trichlorophenol	88062	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
2,4-Dichlorophenol	120832	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
2,4-Dimethylphenol	105679	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
2,4-Dinitrophenol	51285	µg/Kg	0%	53	220 U	260 U	220 U	280 U	360 U	210 U	220 U
2,4-Dinitrotoluene	121142	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
2,6-Dinitrotoluene	606202	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
2-Chloronaphthalene	91587	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM690B2**	**RM690B3**	**RM697B1**	**RM697B2**	**RM697B3**	**RM700B1c**	**RM700B1L**
Date Collected:					13-Apr-05	13-Apr-05	13-Apr-05	13-Apr-05	13-Apr-05	12-Apr-05	12-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample
Elevation:					1274	1259	1284	1282	1277	1285	1288
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
2-Chlorophenol	95578	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
2-Methylphenol	95487	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
2-Nitroaniline	88744	µg/Kg	0%	63	220 U	260 U	220 U	280 U	360 U	210 U	220 U
2-Nitrophenol	88755	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
3,3'-Dichlorobenzidine	91941	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
3-Nitroaniline	99092	µg/Kg	0%	63	220 U	260 U	220 U	280 U	360 U	210 U	220 U
4,6-Dinitro-2-methylphenol	534521	µg/Kg	0%	63	220 U	260 U	220 U	280 U	360 U	210 U	220 U
4-Bromophenyl-phenylether	101553	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
4-Chloro-3-methylphenol	59507	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
4-Chloroaniline	106478	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
4-Chlorophenyl-phenyl ether	7005723	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
4-Methylphenol	106445	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
4-Nitroaniline	100016	µg/Kg	0%	63	220 U	260 U	220 U	280 U	360 U	210 U	220 U
4-Nitrophenol	100027	µg/Kg	0%	63	220 U	260 U	220 U	280 U	360 U	210 U	220 U
Acetophenone	98862	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Atrazine	1912249	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Benzaldehyde	100527	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Benzoic acid	65850	µg/Kg	0%	46	88 UJ	100 UJ	87 UJ	110 UJ	140 UJ	85 UJ	88 UJ
Benzyl alcohol	100516	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
bis(2-Chloroethoxy)methane	111911	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Bis(2-chloroethyl)ether	111444	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Bis(2-ethylhexyl)phthalate	117817	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Butyl benzyl phthalate	85687	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Caprolactam	105602	µg/Kg	3%	63	88 U	150	87 U	110 U	140 U	85 U	88 U
Carbazole	86748	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Di-n-butyl phthalate	84742	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Di-n-octylphthalate	117840	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Diethyl phthalate	84662	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Dimethyl phthalate	131113	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Hexachloroethane	67721	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Isophorone	78591	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
N-Nitrosodi-n-propylamine	621647	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
N-Nitrosodiphenylamine	86306	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Nitrobenzene	98953	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM690B2**	**RM690B3**	**RM697B1**	**RM697B2**	**RM697B3**	**RM700B1c**	**RM700B1L**
Date Collected:					13-Apr-05	13-Apr-05	13-Apr-05	13-Apr-05	13-Apr-05	12-Apr-05	12-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample
Elevation:					1274	1259	1284	1282	1277	1285	1288
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Pentachlorophenol	87865	µg/Kg	0%	63	220 U	260 U	220 U	280 U	360 U	210 U	220 U
Perchlorocyclopentadiene	77474	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Phenol	108952	µg/Kg	0%	63	88 U	100 U	87 U	110 U	140 U	85 U	88 U
Dioxins and Furans											
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822469	pg/g	47%	36	1.0 U	2.0	0.47 U	4.9	8.6	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	pg/g	58%	36	0.23 U	0.35 U	0.091 U	0.99 J	1.7	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	pg/g	3%	36	0.095 U	0.078 U	0.054 U	0.062 J	0.21 U	--	--
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227286	pg/g	39%	36	0.11 U	0.070 J	0.075 U	0.12 J	0.18 J	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	pg/g	11%	36	0.054 U	0.053 U	0.047 U	0.14 J	0.24 J	--	--
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653857	pg/g	44%	36	0.11 J	0.14 J	0.078 U	0.37 J	0.77 J	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	pg/g	19%	36	0.055 U	0.051 U	0.047 U	0.10 J	0.19 J	--	--
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408743	pg/g	42%	36	0.076 J	0.082 J	0.077 U	0.26 U	0.51 U	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	pg/g	6%	36	0.083 U	0.076 U	0.073 U	0.079 U	0.21 U	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764	pg/g	28%	36	0.058 U	0.052 U	0.044 U	0.17 U	0.26 J	--	--
1,2,3,7,8-Pentachlorodibenzofuran	57117416	pg/g	19%	36	0.038 U	0.045 U	0.023 U	0.16 J	0.24 J	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran	60851345	pg/g	17%	36	0.056 U	0.045 J	0.047 U	0.11 U	0.21 U	--	--
2,3,4,7,8-Pentachlorodibenzofuran	57117314	pg/g	33%	36	0.045 U	0.065 U	0.028 J	0.24 J	0.47 J	--	--
2,3,7,8-Tetrachlorodibenzodioxin	1746016	pg/g	19%	36	0.073 U	0.047 U	0.039 U	0.15 J	0.25 J	--	--
2,3,7,8-Tetrachlorodibenzofuran	51207319	pg/g	64%	36	1.2	1.5	0.30 J	8.7	16	--	--
Heptachlorodibenzodioxin (Total)	37871004	pg/g	83%	36	2.1 J	4.3 J	1.0 U	11 J	19 J	--	--
Heptachlorodibenzofuran (Total)	38998753	pg/g	72%	36	0.43 U	0.97 J	0.085 U	2.3 J	4.0	--	--
Hexachlorodibenzodioxin (Total)	34465468	pg/g	81%	36	0.37	0.62	0.076 U	3.6	6.2	--	--
Hexachlorodibenzofuran (Total)	55684941	pg/g	86%	36	0.061 U	0.49	0.044	1.5	2.3	--	--
Octachlorodibenzodioxin	3268879	pg/g	58%	36	7.8 U	15	3.2 U	33	51	--	--
Octachlorodibenzofuran	39001020	pg/g	58%	36	0.68 U	0.98 J	0.16 U	2.1 J	4.2	--	--
Pentachlorodibenzodioxin (Total)	36088229	pg/g	53%	36	0.058 U	0.16	0.044 U	0.54	1.00	--	--
Pentachlorodibenzofuran (Total)	30402154	pg/g	64%	36	0.12	0.46	0.067 U	1.9 J	3.1	--	--
TEQ WHO-98	TEQ	pg/g	92%	36	0.22	0.20	0.030	1.3	2.6	--	--
Tetrachlorodibenzodioxin (Total)	41903575	pg/g	42%	36	0.073 U	0.18	0.039 U	0.40	0.72	--	--
Tetrachlorodibenzofuran (Total)	55722275	pg/g	81%	36	1.8 J	2.7 J	0.45 J	18 J	30	--	--

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM700B1R**	**RM700B2c**	**RM700B2L**	**RM700B2R**	**RM700B3c**	**RM700B3L**	**RM700B3R**
Date Collected:					12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1282	1274	1281	1269	1259	1255	1255
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
415.1											
Total organic carbon	E-10195	mg/Kg	98%	63	471	694	864	514	555	472	963
CLP TAL TotMetals											
Aluminum	7429905	mg/Kg	100%	63	4,700	5,740	4,910	4,760	16,000	4,730	10,100
Antimony	7440360	mg/Kg	63%	54	5.3 UJ	0.95 UJ	6.4 UJ	0.30 UJ	1.3 UJ	0.45 UJ	0.31 UJ
Arsenic	7440382	mg/Kg	97%	63	1.8	1.0	1.3	1.5	2.3	1.5	1.8
Barium	7440393	mg/Kg	100%	63	38 J	40 J	40 J	38 J	169 J	37 J	106 J
Beryllium	7440417	mg/Kg	100%	63	0.31 J	0.38 J	0.37 J	0.36 J	1.4	0.35 J	0.83
Cadmium	7440439	mg/Kg	86%	63	0.15 J	0.15 J	0.23 J	0.11 J	0.36 J	0.19 J	0.22 J
Calcium	7440702	mg/Kg	100%	63	1,950	2,570	2,460	2,380	16,200	2,430	7,890
Chromium	7440473	mg/Kg	100%	63	9.7 J	10 J	9.6 J	9.6 J	37 J	10 J	22 J
Cobalt	7440484	mg/Kg	100%	63	3.2 J	3.5 J	3.5 J	3.8 J	13	3.8 J	7.5
Copper	7440508	mg/Kg	100%	63	9.8	10	9.2	9.3	27	10	16
Iron	7439896	mg/Kg	100%	63	8,650	9,930	9,320	9,690	26,000	10,100	16,200
Lead	7439921	mg/Kg	100%	63	4.3	7.3	6.8	4.0	11	7.6	8.3
Magnesium	7439954	mg/Kg	100%	63	2,870	3,100	2,860	2,690	9,960	3,100	5,970
Manganese	7439965	mg/Kg	100%	63	146	147	161	145	605	147	390
Mercury	7439976	mg/Kg	68%	63	0.098 U	0.10 U	0.11 U	0.10 U	0.0068 J	0.0040 J	0.0069 J
Nickel	7440020	mg/Kg	100%	63	7.6	7.8	8.3	7.2	30	8.2	18
Potassium	7440097	mg/Kg	100%	63	523	657	585	631	3,160	503	1,750
Selenium	7782492	mg/Kg	26%	19	3.1 UR	2.9 UR	3.7 UR	2.8 UR	4.3 UR	0.85 R	3.5 UR
Silver	7440224	mg/Kg	#VALUE!	63	0.89 U	0.83 U	1.1 U	0.80 U	1.2 U	0.90 U	0.99 U
Sodium	7440235	mg/Kg	89%	63	103 U	124 U	109 U	111 U	437 J	98 U	251 J
Thallium	7440280	mg/Kg	5%	63	2.2 U	2.1 U	2.7 U	2.0 U	3.1 U	2.2 U	2.5 U
Uranium	7440611	mg/Kg	27%	63	18 UJ	17 UJ	21 UJ	16 UJ	25 UJ	18 UJ	20 UJ
Vanadium	7440622	mg/Kg	100%	63	19	21	20	21	50	20	31
Zinc	7440666	mg/Kg	100%	63	33	42	40	27	74	40	52
CLP TCL PAH											
2-Methylnaphthalene	91576	µg/Kg	35%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Acenaphthene	83329	µg/Kg	11%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Acenaphthylene	208968	µg/Kg	14%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Anthracene	120127	µg/Kg	13%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Benzo(a)anthracene	56553	µg/Kg	30%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM700B1R**	**RM700B2c**	**RM700B2L**	**RM700B2R**	**RM700B3c**	**RM700B3L**	**RM700B3R**
Date Collected:					12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1282	1274	1281	1269	1259	1255	1255
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Benzo(a)pyrene	50328	µg/Kg	24%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Benzo(b)fluoranthene	205992	µg/Kg	24%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Benzo(ghi)perylene	191242	µg/Kg	32%	63	0.20 J	5.0 U	4.0 U	0.20 J	6.0 U	4.0 U	5.0 U
Benzo(k)fluoranthene	207089	µg/Kg	14%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Chrysene	218019	µg/Kg	54%	63	0.20 J	0.20 J	4.0 U	0.20 J	0.50 J	4.0 U	0.20 J
Dibenzo(a,h)anthracene	53703	µg/Kg	17%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Dibenzofuran	132649	µg/Kg	22%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Fluoranthene	206440	µg/Kg	48%	63	4.0 U	5.0 U	4.0 U	4.0 U	0.20 J	4.0 U	0.20 J
Fluorene	86737	µg/Kg	14%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Indeno[1,2,3-cd]pyrene	193395	µg/Kg	25%	63	0.20 J	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Naphthalene	91203	µg/Kg	16%	63	3.6 U	3.7 U	3.6 U	3.6 U	4.7 U	3.5 U	4.3 U
Phenanthrene	85018	µg/Kg	44%	63	4.0 U	5.0 U	4.0 U	4.0 U	6.0 U	4.0 U	5.0 U
Pyrene	129000	µg/Kg	48%	63	0.20 J	5.0 U	4.0 U	0.20 J	0.20 J	4.0 U	0.20 J
CLP TCL PCBs											
PCB-1016	12674112	µg/Kg	0%	63	0.87 U	0.90 U	0.89 U	0.90 U	1.1 U	0.86 U	1.1 U
PCB-1221	11104282	µg/Kg	0%	63	3.6 U	3.6 U	3.6 U	3.6 U	4.6 U	3.5 U	4.3 U
PCB-1232	11141165	µg/Kg	0%	63	3.6 U	3.6 U	3.6 U	3.6 U	4.6 U	3.5 U	4.3 U
PCB-1242	53469219	µg/Kg	0%	63	0.87 U	0.90 U	0.89 U	0.90 U	1.1 U	0.86 U	1.1 U
PCB-1248	12672296	µg/Kg	0%	63	0.87 U	0.90 U	0.89 U	0.90 U	1.1 U	0.86 U	1.1 U
PCB-1254	11097691	µg/Kg	0%	63	0.87 U	0.90 U	0.89 U	0.90 U	1.1 U	0.86 U	1.1 U
PCB-1260	11096825	µg/Kg	0%	63	0.87 U	0.90 U	0.89 U	0.90 U	1.1 U	0.86 U	1.1 U
CLP TCL Pesticides											
2,4'-DDD	53190	µg/Kg	0%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
2,4'-DDE	3424826	µg/Kg	5%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
2,4'-DDT	789026	µg/Kg	11%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
4,4'-DDD	72548	µg/Kg	2%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
4,4'-DDE	72559	µg/Kg	11%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
4,4'-DDT	50293	µg/Kg	33%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
Aldrin	309002	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
alpha-BHC	319846	µg/Kg	2%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
alpha-Chlordane	5103719	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
beta-BHC	319857	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
cis-Nonachlor	5103731	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM700B1R**	**RM700B2c**	**RM700B2L**	**RM700B2R**	**RM700B3c**	**RM700B3L**	**RM700B3R**
Date Collected:					12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1282	1274	1281	1269	1259	1255	1255
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
delta-BHC	319868	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
Dieldrin	60571	µg/Kg	0%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
Endosulfan I	959988	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
Endosulfan II	33213659	µg/Kg	0%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
Endosulfan sulfate	1031078	µg/Kg	0%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
Endrin	72208	µg/Kg	0%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
Endrin aldehyde	7421934	µg/Kg	0%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
Endrin ketone	53494705	µg/Kg	0%	63	0.70 U	0.73 U	0.72 U	0.73 U	0.93 U	0.70 U	0.86 U
gamma-BHC (Lindane)	58899	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
gamma-Chlordane	5566347	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
Heptachlor	76448	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
Heptachlor epoxide	1024573	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
Hexachlorobenzene	118741	µg/Kg	6%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
Hexachlorobutadiene	87683	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
Methoxychlor	72435	µg/Kg	5%	63	0.75 J	3.6 U	3.6 U	3.6 U	4.6 U	3.4 U	4.3 U
Oxychlordane	27304138	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
Toxaphene	8001352	µg/Kg	0%	63	35 U	36 U	35 U	36 U	46 U	34 U	43 U
trans-Nonachlor	39765805	µg/Kg	0%	63	0.35 U	0.36 U	0.35 U	0.36 U	0.46 U	0.34 U	0.43 U
CLP TCL SVOC											
1,1'-Biphenyl	92524	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
1,2,4-Trichlorobenzene	120821	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
1,2-Dichlorobenzene	95501	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
1,3-Dichlorobenzene	541731	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
1,4-Dichlorobenzene	106467	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
2,2'-oxybis(1-chloropropane)	108601	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
2,4,5-Trichlorophenol	95954	µg/Kg	0%	63	220 U	230 U	220 U	220 U	290 U	220 U	270 U
2,4,6-Trichlorophenol	88062	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
2,4-Dichlorophenol	120832	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
2,4-Dimethylphenol	105679	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
2,4-Dinitrophenol	51285	µg/Kg	0%	53	220 U	230 U	220 U	220 U	290 U	220 U	270 U
2,4-Dinitrotoluene	121142	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
2,6-Dinitrotoluene	606202	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
2-Chloronaphthalene	91587	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM700B1R**	**RM700B2c**	**RM700B2L**	**RM700B2R**	**RM700B3c**	**RM700B3L**	**RM700B3R**
Date Collected:					12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1282	1274	1281	1269	1259	1255	1255
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
2-Chlorophenol	95578	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
2-Methylphenol	95487	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
2-Nitroaniline	88744	µg/Kg	0%	63	220 U	230 U	220 U	220 U	290 U	220 U	270 U
2-Nitrophenol	88755	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
3,3'-Dichlorobenzidine	91941	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
3-Nitroaniline	99092	µg/Kg	0%	63	220 U	230 U	220 U	220 U	290 U	220 U	270 U
4,6-Dinitro-2-methylphenol	534521	µg/Kg	0%	63	220 U	230 U	220 U	220 U	290 U	220 U	270 U
4-Bromophenyl-phenylether	101553	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
4-Chloro-3-methylphenol	59507	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
4-Chloroaniline	106478	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
4-Chlorophenyl-phenyl ether	7005723	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
4-Methylphenol	106445	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
4-Nitroaniline	100016	µg/Kg	0%	63	220 U	230 U	220 U	220 U	290 U	220 U	270 U
4-Nitrophenol	100027	µg/Kg	0%	63	220 U	230 U	220 U	220 U	290 U	220 U	270 U
Acetophenone	98862	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Atrazine	1912249	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Benzaldehyde	100527	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Benzoic acid	65850	µg/Kg	0%	46	88 UJ	90 UJ	88 UJ	86 UJ	120 UJ	85 UJ	110 UJ
Benzyl alcohol	100516	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
bis(2-Chloroethoxy)methane	111911	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Bis(2-chloroethyl)ether	111444	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Bis(2-ethylhexyl)phthalate	117817	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Butyl benzyl phthalate	85687	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Caprolactam	105602	µg/Kg	3%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Carbazole	86748	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Di-n-butyl phthalate	84742	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Di-n-octylphthalate	117840	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Diethyl phthalate	84662	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Dimethyl phthalate	131113	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Hexachloroethane	67721	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Isophorone	78591	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
N-Nitrosodi-n-propylamine	621647	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
N-Nitrosodiphenylamine	86306	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Nitrobenzene	98953	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM700B1R**	**RM700B2c**	**RM700B2L**	**RM700B2R**	**RM700B3c**	**RM700B3L**	**RM700B3R**
Date Collected:					12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05	12-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1282	1274	1281	1269	1259	1255	1255
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Pentachlorophenol	87865	µg/Kg	0%	63	220 U	230 U	220 U	220 U	290 U	220 U	270 U
Perchlorocyclopentadiene	77474	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Phenol	108952	µg/Kg	0%	63	88 U	90 U	88 U	86 U	120 U	85 U	110 U
Dioxins and Furans											
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822469	pg/g	47%	36	--	--	--	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	pg/g	58%	36	--	--	--	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	pg/g	3%	36	--	--	--	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227286	pg/g	39%	36	--	--	--	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	pg/g	11%	36	--	--	--	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653857	pg/g	44%	36	--	--	--	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	pg/g	19%	36	--	--	--	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408743	pg/g	42%	36	--	--	--	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	pg/g	6%	36	--	--	--	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764	pg/g	28%	36	--	--	--	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran	57117416	pg/g	19%	36	--	--	--	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran	60851345	pg/g	17%	36	--	--	--	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran	57117314	pg/g	33%	36	--	--	--	--	--	--	--
2,3,7,8-Tetrachlorodibenzodioxin	1746016	pg/g	19%	36	--	--	--	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran	51207319	pg/g	64%	36	--	--	--	--	--	--	--
Heptachlorodibenzodioxin (Total)	37871004	pg/g	83%	36	--	--	--	--	--	--	--
Heptachlorodibenzofuran (Total)	38998753	pg/g	72%	36	--	--	--	--	--	--	--
Hexachlorodibenzodioxin (Total)	34465468	pg/g	81%	36	--	--	--	--	--	--	--
Hexachlorodibenzofuran (Total)	55684941	pg/g	86%	36	--	--	--	--	--	--	--
Octachlorodibenzodioxin	3268879	pg/g	58%	36	--	--	--	--	--	--	--
Octachlorodibenzofuran	39001020	pg/g	58%	36	--	--	--	--	--	--	--
Pentachlorodibenzodioxin (Total)	36088229	pg/g	53%	36	--	--	--	--	--	--	--
Pentachlorodibenzofuran (Total)	30402154	pg/g	64%	36	--	--	--	--	--	--	--
TEQ WHO-98	TEQ	pg/g	92%	36	--	--	--	--	--	--	--
Tetrachlorodibenzodioxin (Total)	41903575	pg/g	42%	36	--	--	--	--	--	--	--
Tetrachlorodibenzofuran (Total)	55722275	pg/g	81%	36	--	--	--	--	--	--	--

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM708B1**	**RM708B2**	**RM708B3**	**RM718B1**	**RM718B2**	**RM718B3**	**RM729B1**
Date Collected:					07-Apr-05	07-Apr-05	07-Apr-05	06-Apr-05	06-Apr-05	06-Apr-05	08-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1283	1279	1279	1289	1271	1259	1282
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
415.1											
Total organic carbon	E-10195	mg/Kg	98%	63	3,410	22,200 J	19,900 J	2,790	20,300	8,810	4,000 J
CLP TAL TotMetals											
Aluminum	7429905	mg/Kg	100%	63	7,310	9,890	8,600	4,350	7,880	7,060	10,700
Antimony	7440360	mg/Kg	63%	54	6.2 UJ	2.0 J	8.1 UJ	0.47 UJ	3.6 J	6.4 J	11 J
Arsenic	7440382	mg/Kg	97%	63	3.9 U	8.6	6.5	5.0	9.6	11	14
Barium	7440393	mg/Kg	100%	63	101	264	258	102	315	407	686
Beryllium	7440417	mg/Kg	100%	63	0.36 J	0.56 J	0.48 J	0.28 J	0.53 J	0.48 J	0.77
Cadmium	7440439	mg/Kg	86%	63	1.6	5.6	7.3	1.1	4.2	4.2	2.5
Calcium	7440702	mg/Kg	100%	63	7,110	6,920	7,520	6,090	15,400	24,700	35,100
Chromium	7440473	mg/Kg	100%	63	14	20	20	15	23	25	51
Cobalt	7440484	mg/Kg	100%	63	5.2	7.1	6.8 J	4.3 J	8.5	9.8	22
Copper	7440508	mg/Kg	100%	63	14	58	50	23	132	216	802
Iron	7439896	mg/Kg	100%	63	12,700	23,400	17,600	16,000	23,500	29,500	82,100 D
Lead	7439921	mg/Kg	100%	63	52	202	297	69	223	216	214
Magnesium	7439954	mg/Kg	100%	63	4,220	5,390	6,070	4,140	10,200	13,900	9,090
Manganese	7439965	mg/Kg	100%	63	170	246	214	171	270	434	1,660
Mercury	7439976	mg/Kg	68%	63	0.078 J	0.47	0.81	0.068 J	0.40	0.37	0.073 J
Nickel	7440020	mg/Kg	100%	63	13	17	16	9.6	17	15	10
Potassium	7440097	mg/Kg	100%	63	1,070	1,020	1,010	624	1,220	1,190	2,030
Selenium	7782492	mg/Kg	26%	19	3.6 U	4.3 J	2.3 J	1.1 J	2.7 J	3.0 J	3.7 UR
Silver	7440224	mg/Kg	#VALUE!	63	1.0 U	1.3 U	1.4 U	1.0 U	1.4 U	1.2 U	1.0 UJ
Sodium	7440235	mg/Kg	89%	63	96 J	134 J	86 J	89 J	134 J	170 J	811
Thallium	7440280	mg/Kg	5%	63	2.6 U	3.2 U	3.4 U	2.6 U	3.4 U	3.1 U	1.3 J
Uranium	7440611	mg/Kg	27%	63	7.5 J	6.7 J	27 U	5.7 J	11 J	14 J	21 UJ
Vanadium	7440622	mg/Kg	100%	63	19	29	24	28	27	27	27
Zinc	7440666	mg/Kg	100%	63	186 J	620 J	915 J	352 J	1,060 J	1,700 J	6,560 D
CLP TCL PAH											
2-Methylnaphthalene	91576	µg/Kg	35%	63	1.0 J	30	7.0	0.40 J	4.0 J	4.0 J	0.60 J
Acenaphthene	83329	µg/Kg	11%	63	0.30 J	3.0 J	1.0 J	9.0 U	0.50 J	0.40 J	5.0 U
Acenaphthylene	208968	µg/Kg	14%	63	13 U	1.0 J	0.20 J	9.0 U	0.30 J	0.40 J	9.0
Anthracene	120127	µg/Kg	13%	63	13 U	3.0 J	0.50 J	3.7 U	7.0	4.6 U	7.0
Benzo(a)anthracene	56553	µg/Kg	30%	63	2.0 J	7.0	7.0	0.50 J	3.0 J	3.0 J	5.0 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM708B1**	**RM708B2**	**RM708B3**	**RM718B1**	**RM718B2**	**RM718B3**	**RM729B1**
Date Collected:					07-Apr-05	07-Apr-05	07-Apr-05	06-Apr-05	06-Apr-05	06-Apr-05	08-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1283	1279	1279	1289	1271	1259	1282
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Benzo(a)pyrene	50328	µg/Kg	24%	63	0.50 J	4.0 J	3.0 J	0.50 J	3.0 J	2.0 J	0.90 J
Benzo(b)fluoranthene	205992	µg/Kg	24%	63	1.0 J	9.0	6.0	1.0 J	5.0 J	4.0 J	5.0 U
Benzo(ghi)perylene	191242	µg/Kg	32%	63	0.50 J	2.0 J	1.0 J	0.20 J	1.0 J	0.70 J	5.0
Benzo(k)fluoranthene	207089	µg/Kg	14%	63	13 UJ	5.0 J	12 U	9.0 U	13 U	11 U	5.0 U
Chrysene	218019	µg/Kg	54%	63	2.0 J	17	7.0	1.0 J	5.0 J	5.0	5.0 U
Dibenzo(a,h)anthracene	53703	µg/Kg	17%	63	0.50 J	3.0 J	1.0 J	3.7 U	1.0 J	1.0 J	2.0 J
Dibenzofuran	132649	µg/Kg	22%	63	0.30 J	10	4.0 J	0.20 J	2.0 J	2.0 J	5.0 U
Fluoranthene	206440	µg/Kg	48%	63	13 U	9.0	8.0	2.0 J	9.0	5.0	2.0 J
Fluorene	86737	µg/Kg	14%	63	0.30 J	3.0 J	1.0 J	0.20 J	1.0 J	0.90 J	5.0 U
Indeno[1,2,3-cd]pyrene	193395	µg/Kg	25%	63	0.30 J	5.0 J	3.0 J	0.70 J	3.0 J	2.0 J	4.0
Naphthalene	91203	µg/Kg	16%	63	7.0	43 J	27	3.7 U	4.0 J	8.0	3.8 U
Phenanthrene	85018	µg/Kg	44%	63	1.0 J	41 J	13	1.0 J	7.0	6.0	1.0 J
Pyrene	129000	µg/Kg	48%	63	1.0 J	12	8.0	1.0 J	8.0	5.0	2.0 J
CLP TCL PCBs											
PCB-1016	12674112	µg/Kg	0%	63	1.2 U	1.1 U	0.86 U	0.90 U	1.3 U	1.1 U	0.93 U
PCB-1221	11104282	µg/Kg	0%	63	5.0 U	4.5 U	3.4 U	3.6 U	5.1 U	4.4 U	3.7 U
PCB-1232	11141165	µg/Kg	0%	63	5.0 U	4.5 U	3.4 U	3.6 U	5.1 U	4.4 U	3.7 U
PCB-1242	53469219	µg/Kg	0%	63	1.2 U	1.1 U	0.86 U	0.90 U	1.3 U	1.1 U	0.93 U
PCB-1248	12672296	µg/Kg	0%	63	1.2 U	1.1 U	0.86 U	0.90 U	1.3 U	1.1 U	0.93 U
PCB-1254	11097691	µg/Kg	0%	63	1.2 U	1.1 U	0.86 U	0.90 U	1.3 U	1.1 U	0.93 U
PCB-1260	11096825	µg/Kg	0%	63	1.2 U	1.1 U	0.86 U	0.90 U	1.3 U	1.1 U	0.93 U
CLP TCL Pesticides											
2,4'-DDD	53190	µg/Kg	0%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
2,4'-DDE	3424826	µg/Kg	5%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
2,4'-DDT	789026	µg/Kg	11%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
4,4'-DDD	72548	µg/Kg	2%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
4,4'-DDE	72559	µg/Kg	11%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
4,4'-DDT	50293	µg/Kg	33%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
Aldrin	309002	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
alpha-BHC	319846	µg/Kg	2%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
alpha-Chlordane	5103719	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
beta-BHC	319857	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
cis-Nonachlor	5103731	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM708B1**	**RM708B2**	**RM708B3**	**RM718B1**	**RM718B2**	**RM718B3**	**RM729B1**
Date Collected:					07-Apr-05	07-Apr-05	07-Apr-05	06-Apr-05	06-Apr-05	06-Apr-05	08-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1283	1279	1279	1289	1271	1259	1282
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
delta-BHC	319868	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
Dieldrin	60571	µg/Kg	0%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
Endosulfan I	959988	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
Endosulfan II	33213659	µg/Kg	0%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
Endosulfan sulfate	1031078	µg/Kg	0%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
Endrin	72208	µg/Kg	0%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
Endrin aldehyde	7421934	µg/Kg	0%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
Endrin ketone	53494705	µg/Kg	0%	63	1.0 U	0.90 U	0.69 U	0.72 U	1.0 U	0.89 U	0.75 U
gamma-BHC (Lindane)	58899	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
gamma-Chlordane	5566347	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
Heptachlor	76448	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
Heptachlor epoxide	1024573	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
Hexachlorobenzene	118741	µg/Kg	6%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
Hexachlorobutadiene	87683	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
Methoxychlor	72435	µg/Kg	5%	63	5.0 U	4.4 U	3.4 U	3.6 U	5.0 U	4.4 U	3.7 U
Oxychlordane	27304138	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
Toxaphene	8001352	µg/Kg	0%	63	50 U	44 U	34 U	36 U	50 U	44 U	37 U
trans-Nonachlor	39765805	µg/Kg	0%	63	0.50 U	0.44 U	0.34 U	0.36 U	0.50 U	0.44 U	0.37 U
CLP TCL SVOC											
1,1'-Biphenyl	92524	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
1,2,4-Trichlorobenzene	120821	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
1,2-Dichlorobenzene	95501	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
1,3-Dichlorobenzene	541731	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
1,4-Dichlorobenzene	106467	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
2,2'-oxybis(1-chloropropane)	108601	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
2,4,5-Trichlorophenol	95954	µg/Kg	0%	63	320 U	280 U	300 U	230 U	320 U	280 U	240 U
2,4,6-Trichlorophenol	88062	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
2,4-Dichlorophenol	120832	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
2,4-Dimethylphenol	105679	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
2,4-Dinitrophenol	51285	µg/Kg	0%	53	320 U	280 U	300 U	230 U	320 U	280 U	240 U
2,4-Dinitrotoluene	121142	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
2,6-Dinitrotoluene	606202	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
2-Chloronaphthalene	91587	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM708B1**	**RM708B2**	**RM708B3**	**RM718B1**	**RM718B2**	**RM718B3**	**RM729B1**
Date Collected:					07-Apr-05	07-Apr-05	07-Apr-05	06-Apr-05	06-Apr-05	06-Apr-05	08-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1283	1279	1279	1289	1271	1259	1282
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
2-Chlorophenol	95578	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
2-Methylphenol	95487	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
2-Nitroaniline	88744	µg/Kg	0%	63	320 U	280 U	300 U	230 U	320 U	280 U	240 U
2-Nitrophenol	88755	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
3,3'-Dichlorobenzidine	91941	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
3-Nitroaniline	99092	µg/Kg	0%	63	320 U	280 U	300 U	230 U	320 U	280 U	240 U
4,6-Dinitro-2-methylphenol	534521	µg/Kg	0%	63	320 U	280 U	300 U	230 U	320 U	280 U	240 U
4-Bromophenyl-phenylether	101553	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
4-Chloro-3-methylphenol	59507	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
4-Chloroaniline	106478	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
4-Chlorophenyl-phenyl ether	7005723	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
4-Methylphenol	106445	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
4-Nitroaniline	100016	µg/Kg	0%	63	320 U	280 U	300 U	230 U	320 U	280 U	240 U
4-Nitrophenol	100027	µg/Kg	0%	63	320 U	280 U	300 U	230 U	320 U	280 U	240 U
Acetophenone	98862	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Atrazine	1912249	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Benzaldehyde	100527	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Benzoic acid	65850	µg/Kg	0%	46	130 UJ	110 UJ	120 UJ	89 UJ	130 UJ	110 UJ	93 UJ
Benzyl alcohol	100516	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
bis(2-Chloroethoxy)methane	111911	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Bis(2-chloroethyl)ether	111444	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Bis(2-ethylhexyl)phthalate	117817	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Butyl benzyl phthalate	85687	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Caprolactam	105602	µg/Kg	3%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Carbazole	86748	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Di-n-butyl phthalate	84742	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Di-n-octylphthalate	117840	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Diethyl phthalate	84662	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Dimethyl phthalate	131113	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Hexachloroethane	67721	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Isophorone	78591	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
N-Nitrosodi-n-propylamine	621647	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
N-Nitrosodiphenylamine	86306	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Nitrobenzene	98953	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM708B1**	**RM708B2**	**RM708B3**	**RM718B1**	**RM718B2**	**RM718B3**	**RM729B1**
Date Collected:					07-Apr-05	07-Apr-05	07-Apr-05	06-Apr-05	06-Apr-05	06-Apr-05	08-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1283	1279	1279	1289	1271	1259	1282
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Pentachlorophenol	87865	µg/Kg	0%	63	320 U	280 U	300 U	230 U	320 U	280 U	240 U
Perchlorocyclopentadiene	77474	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Phenol	108952	µg/Kg	0%	63	130 U	110 U	120 U	89 U	130 U	110 U	93 U
Dioxins and Furans											
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822469	pg/g	47%	36	1.4 J	8.1	11	1.8	10	6.3	1.8
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	pg/g	58%	36	0.39 J	1.6 J	2.1	0.41 U	1.9	1.1 J	1.2 J
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	pg/g	3%	36	0.12 U	0.12 U	0.17 U	0.078 U	0.18 U	0.10 U	0.053 U
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227286	pg/g	39%	36	0.076 U	0.15 J	0.21 J	0.061 J	0.18 J	0.13 U	0.069 J
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	pg/g	11%	36	0.052 U	0.20 U	0.28 U	0.082 U	0.25 U	0.17 U	0.056 U
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653857	pg/g	44%	36	0.097 U	0.59 U	0.84 J	0.17 J	0.67 U	0.45 U	0.13 J
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	pg/g	19%	36	0.053 J	0.13 U	0.20 U	0.068 U	0.19 U	0.12 U	0.053 U
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408743	pg/g	42%	36	0.075 U	0.45 J	0.60 J	0.12 J	0.48 J	0.28 J	0.098 J
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	pg/g	6%	36	0.064 U	0.073 U	0.077 U	0.063 U	0.12 U	0.078 U	0.043 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764	pg/g	28%	36	0.045 U	0.16 U	0.21 J	0.062 J	0.17 J	0.099 J	0.040 J
1,2,3,7,8-Pentachlorodibenzofuran	57117416	pg/g	19%	36	0.043 U	0.24 J	0.33 J	0.070 J	0.27 U	0.19 J	0.036 U
2,3,4,6,7,8-Hexachlorodibenzofuran	60851345	pg/g	17%	36	0.056 U	0.17 U	0.24 U	0.092 U	0.23 U	0.14 U	0.055 U
2,3,4,7,8-Pentachlorodibenzofuran	57117314	pg/g	33%	36	0.077 J	0.46 J	0.61 J	0.14 J	0.43 J	0.34 J	0.064 J
2,3,7,8-Tetrachlorodibenzodioxin	1746016	pg/g	19%	36	0.040 U	0.25 J	0.28 J	0.081 U	0.19 J	0.19 J	0.034 U
2,3,7,8-Tetrachlorodibenzofuran	51207319	pg/g	64%	36	1.2	18	24	3.9	15	14	0.67
Heptachlorodibenzodioxin (Total)	37871004	pg/g	83%	36	2.8	17	25	3.9	22	12	3.9
Heptachlorodibenzofuran (Total)	38998753	pg/g	72%	36	0.62 J	4.0 J	5.4 J	0.95 J	4.7	2.5 J	2.4 J
Hexachlorodibenzodioxin (Total)	34465468	pg/g	81%	36	0.33	5.6	7.2	1.3	5.5	3.4	0.73
Hexachlorodibenzofuran (Total)	55684941	pg/g	86%	36	0.49	2.5	3.2	0.72	2.9	1.8	0.97
Octachlorodibenzodioxin	3268879	pg/g	58%	36	10	55	87	12	77	40	13
Octachlorodibenzofuran	39001020	pg/g	58%	36	0.67 J	3.8	5.5	0.93 J	4.9	2.6 J	0.99 J
Pentachlorodibenzodioxin (Total)	36088229	pg/g	53%	36	0.045 U	1.1	1.8	0.14	1.2	0.59	0.15
Pentachlorodibenzofuran (Total)	30402154	pg/g	64%	36	0.53 J	3.0	4.2	0.65 J	2.9 J	1.4	0.33
TEQ WHO-98	TEQ	pg/g	92%	36	0.28	2.5	3.5	0.58	2.3	2.0	0.20
Tetrachlorodibenzodioxin (Total)	41903575	pg/g	42%	36	0.040 U	0.77	0.93	0.064 U	0.91	0.54	0.053
Tetrachlorodibenzofuran (Total)	55722275	pg/g	81%	36	2.3	37	47	7.2	32	28	1.3

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					RM729B2	RM729B3	RM735B1c	RM735B1L	RM735B1R	RM735B2c	RM735B2L
Date Collected:					08-Apr-05	08-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1272	1261	1282	1282	1289	1277	1278
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
415.1											
Total organic carbon	E-10195	mg/Kg	98%	63	1,940 J	1,210 J	8,460	1,290	4,430	9,140	1,220
CLP TAL TotMetals											
Aluminum	7429905	mg/Kg	100%	63	11,900	11,300	6,280	17,300	5,950	9,810	21,000
Antimony	7440360	mg/Kg	63%	54	32 J	25 J	8.9 J	52 J	3.6 J	15 J	53 J
Arsenic	7440382	mg/Kg	97%	63	23	18	6.9	18	6.9	11	23
Barium	7440393	mg/Kg	100%	63	1,070	1,020	459	1,620	465	616	1,980
Beryllium	7440417	mg/Kg	100%	63	0.88	0.84	0.57	1.3	0.59	0.73	1.5
Cadmium	7440439	mg/Kg	86%	63	1.9	2.1	2.8	0.84	3.1	3.2	0.27 J
Calcium	7440702	mg/Kg	100%	63	39,900	37,700	28,500	58,100	27,300	43,700	68,800
Chromium	7440473	mg/Kg	100%	63	78	72	25	111	17	38	133
Cobalt	7440484	mg/Kg	100%	63	37	35	9.7	48	6.7	15	57
Copper	7440508	mg/Kg	100%	63	1,380	1,300	271	2,130	98	598	2,620
Iron	7439896	mg/Kg	100%	63	110,000 D	108,000 D	33,500	171,000 D	21,300	71,600 D	213,000 D
Lead	7439921	mg/Kg	100%	63	190	205	163	239	156	249	324
Magnesium	7439954	mg/Kg	100%	63	6,450	5,640	13,800	6,040	14,500	14,500	6,370
Manganese	7439965	mg/Kg	100%	63	2,200	2,110	619	3,430 D	288	1,220	4,150 D
Mercury	7439976	mg/Kg	68%	63	0.044 J	0.034 J	0.098 J	0.027 J	0.099 J	0.14	0.017 J
Nickel	7440020	mg/Kg	100%	63	12	10	12	14	13	11	15
Potassium	7440097	mg/Kg	100%	63	2,300	2,270	1,200	3,500	1,130	1,850	4,150
Selenium	7782492	mg/Kg	26%	19	3.4 UR	3.6 UR	3.9 UJ	3.6 UJ	3.9 UJ	3.3 UJ	3.5 UJ
Silver	7440224	mg/Kg	#VALUE!	63	0.97 UJ	1.0 UJ	1.1 UJ	1.0 UJ	1.1 UJ	0.95 UJ	1.0 UJ
Sodium	7440235	mg/Kg	89%	63	1,300	1,200	272 J	1,890	139 J	678	2,470
Thallium	7440280	mg/Kg	5%	63	1.1 J	0.83 J	2.8 U	2.6 U	2.8 U	2.4 U	2.5 U
Uranium	7440611	mg/Kg	27%	63	19 UJ	20 UJ	22 U	21 U	22 U	19 U	20 U
Vanadium	7440622	mg/Kg	100%	63	29	28	22	37	25	27	41
Zinc	7440666	mg/Kg	100%	63	8,410 D	8,700 D	2,220	14,600 D	1,020	5,900 D	17,100 D
CLP TCL PAH											
2-Methylnaphthalene	91576	µg/Kg	35%	63	0.40 J	0.50 J	0.40 J	4.0 U	2.0 J	0.40 J	4.0 U
Acenaphthene	83329	µg/Kg	11%	63	5.0 U	4.0 U	5.0 U	4.0 U	5.0 U	5.0 U	4.0 U
Acenaphthylene	208968	µg/Kg	14%	63	5.0 U	4.0 U	3.0 J	4.0 U	3.0 J	5.0 U	4.0 U
Anthracene	120127	µg/Kg	13%	63	5.0 U	4.0 U	6.0	4.0 U	2.0 J	5.0 U	4.0 U
Benzo(a)anthracene	56553	µg/Kg	30%	63	0.40 J	0.40 J	12	4.0 U	10	2.0 J	0.50 J

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM729B2**	**RM729B3**	**RM735B1c**	**RM735B1L**	**RM735B1R**	**RM735B2c**	**RM735B2L**
Date Collected:					08-Apr-05	08-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1272	1261	1282	1282	1289	1277	1278
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Benzo(a)pyrene	50328	µg/Kg	24%	63	5.0 U	4.0 U	11	4.0 U	13	5.0 U	4.0 U
Benzo(b)fluoranthene	205992	µg/Kg	24%	63	5.0 U	4.0 U	9.0	4.0 U	5.0 U	5.0 U	0.30 J
Benzo(ghi)perylene	191242	µg/Kg	32%	63	5.0 U	4.0 U	7.0	4.0 U	9.0	2.0 J	0.20 J
Benzo(k)fluoranthene	207089	µg/Kg	14%	63	5.0 U	4.0 U	7.0	4.0 U	5.0 U	5.0 U	0.50 J
Chrysene	218019	µg/Kg	54%	63	0.70 J	0.50 J	13	4.0 U	14	3.0 J	0.50 J
Dibenzo(a,h)anthracene	53703	µg/Kg	17%	63	5.0 U	4.0 U	2.0 J	4.0 U	3.0 J	0.60 J	4.0 U
Dibenzofuran	132649	µg/Kg	22%	63	5.0 U	0.20 J	0.40 J	4.0 U	2.0 J	0.40 J	4.0 U
Fluoranthene	206440	µg/Kg	48%	63	0.70 J	0.40 J	36 J	0.20 J	27	5.0	0.30 J
Fluorene	86737	µg/Kg	14%	63	5.0 U	4.0 U	2.0 J	4.0 U	5.0 U	5.0 U	4.0 U
Indeno[1,2,3-cd]pyrene	193395	µg/Kg	25%	63	5.0 U	4.0 U	9.0	4.0 U	5.0 U	2.0 J	4.0 U
Naphthalene	91203	µg/Kg	16%	63	3.7 U	3.6 U	4.1 U	3.6 U	3.0 J	4.3 U	3.6 U
Phenanthrene	85018	µg/Kg	44%	63	0.50 J	0.70 J	36 J	0.20 J	24	3.0 J	0.20 J
Pyrene	129000	µg/Kg	48%	63	0.70 J	0.40 J	36 J	0.20 J	25	4.0 J	0.30 J
CLP TCL PCBs											
PCB-1016	12674112	µg/Kg	0%	63	0.90 U	0.87 U	0.99 U	0.85 U	1.0 U	1.0 U	0.86 U
PCB-1221	11104282	µg/Kg	0%	63	3.6 U	3.5 U	4.0 U	3.4 U	4.1 U	4.2 U	3.5 U
PCB-1232	11141165	µg/Kg	0%	63	3.6 U	3.5 U	4.0 U	3.4 U	4.1 U	4.2 U	3.5 U
PCB-1242	53469219	µg/Kg	0%	63	0.90 U	0.87 U	0.99 U	0.85 U	1.0 U	1.0 U	0.86 U
PCB-1248	12672296	µg/Kg	0%	63	0.90 U	0.87 U	0.99 U	0.85 U	1.0 U	1.0 U	0.86 U
PCB-1254	11097691	µg/Kg	0%	63	0.90 U	0.87 U	0.99 U	0.85 U	1.0 U	1.0 U	0.86 U
PCB-1260	11096825	µg/Kg	0%	63	0.90 U	0.87 U	0.99 U	0.85 U	1.0 U	1.0 U	0.86 U
CLP TCL Pesticides											
2,4'-DDD	53190	µg/Kg	0%	63	0.72 U	0.70 U	0.80 U	0.69 U	0.82 U	0.84 U	0.69 U
2,4'-DDE	3424826	µg/Kg	5%	63	0.72 U	0.70 U	0.80 U	0.69 U	0.82 U	0.84 U	0.69 U
2,4'-DDT	789026	µg/Kg	11%	63	0.72 U	0.70 U	0.80 U	0.69 U	0.82 U	0.84 U	0.69 U
4,4'-DDD	72548	µg/Kg	2%	63	0.72 U	0.70 U	0.80 U	0.69 U	0.82 U	0.84 U	0.69 U
4,4'-DDE	72559	µg/Kg	11%	63	0.72 U	0.70 U	0.80 U	0.69 U	0.82 U	0.84 U	0.69 U
4,4'-DDT	50293	µg/Kg	33%	63	0.72 U	0.70 U	0.20 J	0.69 U	0.82 U	0.84 U	0.69 U
Aldrin	309002	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
alpha-BHC	319846	µg/Kg	2%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
alpha-Chlordane	5103719	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
beta-BHC	319857	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
cis-Nonachlor	5103731	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM729B2**	**RM729B3**	**RM735B1c**	**RM735B1L**	**RM735B1R**	**RM735B2c**	**RM735B2L**
Date Collected:					08-Apr-05	08-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1272	1261	1282	1282	1289	1277	1278
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
delta-BHC	319868	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
Dieldrin	60571	µg/Kg	0%	63	0.72 U	0.70 U	0.80 U	0.69 U	0.82 U	0.84 U	0.69 U
Endosulfan I	959988	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
Endosulfan II	33213659	µg/Kg	0%	63	0.72 U	0.70 U	0.80 U	0.69 U	0.82 U	0.84 U	0.69 U
Endosulfan sulfate	1031078	µg/Kg	0%	63	0.72 U	0.70 U	0.80 U	0.69 U	0.82 U	0.84 U	0.69 U
Endrin	72208	µg/Kg	0%	63	0.72 U	0.70 U	0.80 U	0.69 U	0.82 U	0.84 U	0.69 U
Endrin aldehyde	7421934	µg/Kg	0%	63	0.72 U	0.70 U	0.80 U	0.69 U	0.82 U	0.84 U	0.69 U
Endrin ketone	53494705	µg/Kg	0%	63	0.72 U	0.70 U	0.80 U	0.69 U	0.82 U	0.84 U	0.69 U
gamma-BHC (Lindane)	58899	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
gamma-Chlordane	5566347	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
Heptachlor	76448	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
Heptachlor epoxide	1024573	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
Hexachlorobenzene	118741	µg/Kg	6%	63	0.36 U	0.35 U	0.11 J	0.34 U	0.41 U	0.41 U	0.34 U
Hexachlorobutadiene	87683	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
Methoxychlor	72435	µg/Kg	5%	63	3.6 U	3.5 U	4.0 U	3.4 U	4.1 U	4.1 U	3.4 U
Oxychlordane	27304138	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
Toxaphene	8001352	µg/Kg	0%	63	36 U	35 U	40 U	34 U	41 U	41 U	34 U
trans-Nonachlor	39765805	µg/Kg	0%	63	0.36 U	0.35 U	0.40 U	0.34 U	0.41 U	0.41 U	0.34 U
CLP TCL SVOC											
1,1'-Biphenyl	92524	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
1,2,4-Trichlorobenzene	120821	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
1,2-Dichlorobenzene	95501	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
1,3-Dichlorobenzene	541731	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
1,4-Dichlorobenzene	106467	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
2,2'-oxybis(1-chloropropane)	108601	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
2,4,5-Trichlorophenol	95954	µg/Kg	0%	63	230 U	220 U	250 U	220 U	260 U	260 U	220 U
2,4,6-Trichlorophenol	88062	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
2,4-Dichlorophenol	120832	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
2,4-Dimethylphenol	105679	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
2,4-Dinitrophenol	51285	µg/Kg	0%	53	230 U	220 U	250 U	220 U	260 U	260 U	220 U
2,4-Dinitrotoluene	121142	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
2,6-Dinitrotoluene	606202	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
2-Chloronaphthalene	91587	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM729B2**	**RM729B3**	**RM735B1c**	**RM735B1L**	**RM735B1R**	**RM735B2c**	**RM735B2L**
Date Collected:					08-Apr-05	08-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1272	1261	1282	1282	1289	1277	1278
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
2-Chlorophenol	95578	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
2-Methylphenol	95487	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
2-Nitroaniline	88744	µg/Kg	0%	63	230 U	220 U	250 U	220 U	260 U	260 U	220 U
2-Nitrophenol	88755	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
3,3'-Dichlorobenzidine	91941	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
3-Nitroaniline	99092	µg/Kg	0%	63	230 U	220 U	250 U	220 U	260 U	260 U	220 U
4,6-Dinitro-2-methylphenol	534521	µg/Kg	0%	63	230 U	220 U	250 U	220 U	260 U	260 U	220 U
4-Bromophenyl-phenylether	101553	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
4-Chloro-3-methylphenol	59507	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
4-Chloroaniline	106478	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
4-Chlorophenyl-phenyl ether	7005723	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
4-Methylphenol	106445	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
4-Nitroaniline	100016	µg/Kg	0%	63	230 U	220 U	250 U	220 U	260 U	260 U	220 U
4-Nitrophenol	100027	µg/Kg	0%	63	230 U	220 U	250 U	220 U	260 U	260 U	220 U
Acetophenone	98862	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Atrazine	1912249	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Benzaldehyde	100527	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Benzoic acid	65850	µg/Kg	0%	46	90 UJ	88 UJ	99 UJ	86 UJ	100 UJ	100 UJ	86 UJ
Benzyl alcohol	100516	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
bis(2-Chloroethoxy)methane	111911	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Bis(2-chloroethyl)ether	111444	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Bis(2-ethylhexyl)phthalate	117817	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Butyl benzyl phthalate	85687	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Caprolactam	105602	µg/Kg	3%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Carbazole	86748	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Di-n-butyl phthalate	84742	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Di-n-octylphthalate	117840	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Diethyl phthalate	84662	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Dimethyl phthalate	131113	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Hexachloroethane	67721	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Isophorone	78591	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
N-Nitrosodi-n-propylamine	621647	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
N-Nitrosodiphenylamine	86306	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Nitrobenzene	98953	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM729B2**	**RM729B3**	**RM735B1c**	**RM735B1L**	**RM735B1R**	**RM735B2c**	**RM735B2L**
Date Collected:					08-Apr-05	08-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05
Sample Type:					Beach Subsample Composite	Beach Subsample Composite	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample
Elevation:					1272	1261	1282	1282	1289	1277	1278
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Pentachlorophenol	87865	µg/Kg	0%	63	230 U	220 U	250 U	220 U	260 U	260 U	220 U
Perchlorocyclopentadiene	77474	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Phenol	108952	µg/Kg	0%	63	90 U	88 U	99 U	86 U	100 U	100 U	86 U
Dioxins and Furans											
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822469	pg/g	47%	36	0.66 U	0.47 U	--	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	pg/g	58%	36	0.15 U	0.28 U	--	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	pg/g	3%	36	0.043 U	0.034 U	--	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227286	pg/g	39%	36	0.055 J	0.037 U	--	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	pg/g	11%	36	0.029 U	0.043 U	--	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653857	pg/g	44%	36	0.051 J	0.038 U	--	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	pg/g	19%	36	0.035 U	0.043 U	--	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408743	pg/g	42%	36	0.038 U	0.036 J	--	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	pg/g	6%	36	0.042 U	0.053 U	--	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764	pg/g	28%	36	0.022 J	0.025 U	--	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran	57117416	pg/g	19%	36	0.026 J	0.035 U	--	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran	60851345	pg/g	17%	36	0.031 U	0.056 U	--	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran	57117314	pg/g	33%	36	0.050 J	0.061 J	--	--	--	--	--
2,3,7,8-Tetrachlorodibenzodioxin	1746016	pg/g	19%	36	0.035 U	0.040 U	--	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran	51207319	pg/g	64%	36	0.58	0.56	--	--	--	--	--
Heptachlorodibenzodioxin (Total)	37871004	pg/g	83%	36	1.5	0.92	--	--	--	--	--
Heptachlorodibenzofuran (Total)	38998753	pg/g	72%	36	0.33 J	0.47 J	--	--	--	--	--
Hexachlorodibenzodioxin (Total)	34465468	pg/g	81%	36	0.37	0.23	--	--	--	--	--
Hexachlorodibenzofuran (Total)	55684941	pg/g	86%	36	0.23	0.39	--	--	--	--	--
Octachlorodibenzodioxin	3268879	pg/g	58%	36	4.2	2.2 U	--	--	--	--	--
Octachlorodibenzofuran	39001020	pg/g	58%	36	0.33 U	0.26 U	--	--	--	--	--
Pentachlorodibenzodioxin (Total)	36088229	pg/g	53%	36	0.022	0.040	--	--	--	--	--
Pentachlorodibenzofuran (Total)	30402154	pg/g	64%	36	0.23	0.22	--	--	--	--	--
TEQ WHO-98	TEQ	pg/g	92%	36	0.13	0.060	--	--	--	--	--
Tetrachlorodibenzodioxin (Total)	41903575	pg/g	42%	36	0.044	0.040 U	--	--	--	--	--
Tetrachlorodibenzofuran (Total)	55722275	pg/g	81%	36	1.1	1.0	--	--	--	--	--

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM735B2R**	**RM735B3c**	**RM735B3L**	**RM735B3R**	**RM742B1**	**RM742B2**	**RM742B3**
Date Collected:					11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	09-Apr-05	09-Apr-05	09-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1278	1275	1275	1275	1303	1297	1293
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
415.1											
Total organic carbon	E-10195	mg/Kg	98%	63	4,660 J	3,180 J	810 J	5,660 J	3,290 J	771	2,150
CLP TAL TotMetals											
Aluminum	7429905	mg/Kg	100%	63	6,670	5,720	23,100	6,950	18,600	18,600	19,000
Antimony	7440360	mg/Kg	63%	54	14 J	9.6 J	44 J	16 J	48 J	52 J	19 J
Arsenic	7440382	mg/Kg	97%	63	9.3	6.1	36	10	27	25	16
Barium	7440393	mg/Kg	100%	63	512	403	2,250	534	1,750	1,680	1,280
Beryllium	7440417	mg/Kg	100%	63	0.59	0.54 J	1.7	0.57	1.3	1.3	1.2
Cadmium	7440439	mg/Kg	86%	63	3.7	3.7	0.48	4.8	1.4	1.2	1.0
Calcium	7440702	mg/Kg	100%	63	37,400	30,400	80,300	46,100	66,900	63,300	58,700
Chromium	7440473	mg/Kg	100%	63	28	27	145	33	128	123	101
Cobalt	7440484	mg/Kg	100%	63	11	12	57	14	51	49	30
Copper	7440508	mg/Kg	100%	63	328	364	3,290	491	2,350	2,240	1,620
Iron	7439896	mg/Kg	100%	63	40,100	34,600	254,000 D	51,500	211,000 D	187,000 D	197,000 D
Lead	7439921	mg/Kg	100%	63	194	174	535	217	266	231	276
Magnesium	7439954	mg/Kg	100%	63	16,200	13,400	6,200	16,400	8,290	7,070	6,670
Manganese	7439965	mg/Kg	100%	63	642	672	4,780 D	961	3,680 D	3,680 D	3,080
Mercury	7439976	mg/Kg	68%	63	0.14	0.17	0.017 J	0.12 J	0.65	0.030 J	0.028 J
Nickel	7440020	mg/Kg	100%	63	13	11	17	12	12	12	9.3
Potassium	7440097	mg/Kg	100%	63	1,210	1,210	4,730	1,290	3,750	3,610	3,500
Selenium	7782492	mg/Kg	26%	19	3.7 UJ	3.8 UJ	3.3 UJ	3.8 UJ	3.4 U	3.3 UR	3.7 UR
Silver	7440224	mg/Kg	#VALUE!	63	1.1 UJ	1.1 UJ	0.95 UJ	1.1 UJ	0.97 U	0.93 UJ	1.1 UJ
Sodium	7440235	mg/Kg	89%	63	294 J	249 J	2,780	361 J	1,840	1,770	1,300
Thallium	7440280	mg/Kg	5%	63	2.7 U	2.7 U	2.4 U	2.7 U	2.4 U	2.3 UJ	2.7 UJ
Uranium	7440611	mg/Kg	27%	63	21 U	22 U	19 U	22 U	82	84 J	65 J
Vanadium	7440622	mg/Kg	100%	63	26	20	43	23	40	38	37
Zinc	7440666	mg/Kg	100%	63	2,630	2,760	22,200 D	3,910	16,900 J	15,200 D	14,900 D
CLP TCL PAH											
2-Methylnaphthalene	91576	µg/Kg	35%	63	2.0 J	0.70 J	0.20 J	0.60 J	4.0 U	4.0 U	5.0 U
Acenaphthene	83329	µg/Kg	11%	63	5.0 U	2.0 J	0.20 J	5.0 U	4.0 U	4.0 U	5.0 U
Acenaphthylene	208968	µg/Kg	14%	63	2.0 J	6.0 U	4.0 U	5.0 U	4.0 U	4.0 U	5.0 U
Anthracene	120127	µg/Kg	13%	63	1.0 J	2.0 J	4.0 U	5.0 U	4.0 U	4.0 U	5.0 U
Benzo(a)anthracene	56553	µg/Kg	30%	63	8.0	11	0.30 J	0.80 J	4.0 U	4.0 U	5.0 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM735B2R**	**RM735B3c**	**RM735B3L**	**RM735B3R**	**RM742B1**	**RM742B2**	**RM742B3**
Date Collected:					11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	09-Apr-05	09-Apr-05	09-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1278	1275	1275	1275	1303	1297	1293
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Benzo(a)pyrene	50328	µg/Kg	24%	63	12	9.0	4.0 U	5.0 U	4.0 U	4.0 U	5.0 U
Benzo(b)fluoranthene	205992	µg/Kg	24%	63	5.0 U	6.0 U	0.30 J	5.0 U	4.0 U	4.0 U	5.0 U
Benzo(ghi)perylene	191242	µg/Kg	32%	63	9.0	5.0	4.0 U	0.60 J	0.20 J	4.0 U	5.0 U
Benzo(k)fluoranthene	207089	µg/Kg	14%	63	5.0 U	6.0 U	0.50 J	5.0 U	4.0 U	4.0 U	5.0 U
Chrysene	218019	µg/Kg	54%	63	13	14	0.50 J	1.0 J	4.0 U	4.0 U	5.0 U
Dibenzo(a,h)anthracene	53703	µg/Kg	17%	63	3.0 J	3.0 J	4.0 U	5.0 U	4.0 U	4.0 U	5.0 U
Dibenzofuran	132649	µg/Kg	22%	63	2.0 J	0.90 J	4.0 U	0.20 J	4.0 U	4.0 U	5.0 U
Fluoranthene	206440	µg/Kg	48%	63	27	21	0.30 J	1.0 J	4.0 U	4.0 U	5.0 U
Fluorene	86737	µg/Kg	14%	63	3.0 J	2.0 J	4.0 U	5.0 U	4.0 U	4.0 U	5.0 U
Indeno[1,2,3-cd]pyrene	193395	µg/Kg	25%	63	11	7.0	4.0 U	0.60 J	4.0 U	4.0 U	5.0 U
Naphthalene	91203	µg/Kg	16%	63	2.0 J	1.0 J	3.6 U	4.3 U	4.0 U	4.0 U	5.0 U
Phenanthrene	85018	µg/Kg	44%	63	27	22	0.20 J	0.80 J	0.20 J	0.30 J	5.0 U
Pyrene	129000	µg/Kg	48%	63	24	20	0.30 J	1.0 J	4.0 U	4.0 U	5.0 U
CLP TCL PCBs											
PCB-1016	12674112	µg/Kg	0%	63	1.0 U	1.1 U	0.87 U	1.1 U	0.85 U	0.85 UJ	0.96 U
PCB-1221	11104282	µg/Kg	0%	63	4.0 U	4.6 U	3.6 U	4.2 U	3.4 U	3.4 UJ	3.9 U
PCB-1232	11141165	µg/Kg	0%	63	4.0 U	4.6 U	3.6 U	4.2 U	3.4 U	3.4 UJ	3.9 U
PCB-1242	53469219	µg/Kg	0%	63	1.0 U	1.1 U	0.87 U	1.1 U	0.85 U	0.85 UJ	0.96 U
PCB-1248	12672296	µg/Kg	0%	63	1.0 U	1.1 U	0.87 U	1.1 U	0.85 U	0.85 UJ	0.96 U
PCB-1254	11097691	µg/Kg	0%	63	1.0 U	1.1 U	0.87 U	1.1 U	0.85 U	0.85 UJ	0.96 U
PCB-1260	11096825	µg/Kg	0%	63	1.0 U	1.1 U	0.87 U	1.1 U	0.85 U	0.85 UJ	0.96 U
CLP TCL Pesticides											
2,4'-DDD	53190	µg/Kg	0%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.78 U
2,4'-DDE	3424826	µg/Kg	5%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.78 U
2,4'-DDT	789026	µg/Kg	11%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.78 U
4,4'-DDD	72548	µg/Kg	2%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.78 U
4,4'-DDE	72559	µg/Kg	11%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.78 U
4,4'-DDT	50293	µg/Kg	33%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.36 J
Aldrin	309002	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
alpha-BHC	319846	µg/Kg	2%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
alpha-Chlordane	5103719	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
beta-BHC	319857	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
cis-Nonachlor	5103731	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM735B2R**	**RM735B3c**	**RM735B3L**	**RM735B3R**	**RM742B1**	**RM742B2**	**RM742B3**
Date Collected:					11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	09-Apr-05	09-Apr-05	09-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1278	1275	1275	1275	1303	1297	1293
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
delta-BHC	319868	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
Dieldrin	60571	µg/Kg	0%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.78 U
Endosulfan I	959988	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
Endosulfan II	33213659	µg/Kg	0%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.78 U
Endosulfan sulfate	1031078	µg/Kg	0%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.78 U
Endrin	72208	µg/Kg	0%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.78 U
Endrin aldehyde	7421934	µg/Kg	0%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.78 U
Endrin ketone	53494705	µg/Kg	0%	63	0.81 U	0.93 U	0.70 U	0.85 U	0.68 U	0.68 U	0.78 U
gamma-BHC (Lindane)	58899	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
gamma-Chlordane	5566347	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
Heptachlor	76448	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
Heptachlor epoxide	1024573	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
Hexachlorobenzene	118741	µg/Kg	6%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
Hexachlorobutadiene	87683	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
Methoxychlor	72435	µg/Kg	5%	63	4.0 U	4.6 U	3.5 U	4.2 U	3.4 U	3.4 U	3.8 U
Oxychlordane	27304138	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
Toxaphene	8001352	µg/Kg	0%	63	40 U	46 U	35 U	42 U	34 U	34 U	38 U
trans-Nonachlor	39765805	µg/Kg	0%	63	0.40 U	0.46 U	0.35 U	0.42 U	0.34 U	0.34 U	0.38 U
CLP TCL SVOC											
1,1'-Biphenyl	92524	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
1,2,4-Trichlorobenzene	120821	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
1,2-Dichlorobenzene	95501	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
1,3-Dichlorobenzene	541731	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
1,4-Dichlorobenzene	106467	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
2,2'-oxybis(1-chloropropane)	108601	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
2,4,5-Trichlorophenol	95954	µg/Kg	0%	63	260 U	290 U	220 U	270 U	210 U	210 U	240 U
2,4,6-Trichlorophenol	88062	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
2,4-Dichlorophenol	120832	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
2,4-Dimethylphenol	105679	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
2,4-Dinitrophenol	51285	µg/Kg	0%	53	260 U	290 U	220 U	270 U	210 U	210 U	240 U
2,4-Dinitrotoluene	121142	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
2,6-Dinitrotoluene	606202	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
2-Chloronaphthalene	91587	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U

TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM735B2R**	**RM735B3c**	**RM735B3L**	**RM735B3R**	**RM742B1**	**RM742B2**	**RM742B3**
Date Collected:					11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	09-Apr-05	09-Apr-05	09-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1278	1275	1275	1275	1303	1297	1293
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
2-Chlorophenol	95578	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
2-Methylphenol	95487	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
2-Nitroaniline	88744	µg/Kg	0%	63	260 U	290 U	220 U	270 U	210 U	210 U	240 U
2-Nitrophenol	88755	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
3,3'-Dichlorobenzidine	91941	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
3-Nitroaniline	99092	µg/Kg	0%	63	260 U	290 U	220 U	270 U	210 U	210 U	240 U
4,6-Dinitro-2-methylphenol	534521	µg/Kg	0%	63	260 U	290 U	220 U	270 U	210 U	210 U	240 U
4-Bromophenyl-phenylether	101553	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
4-Chloro-3-methylphenol	59507	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
4-Chloroaniline	106478	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
4-Chlorophenyl-phenyl ether	7005723	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
4-Methylphenol	106445	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
4-Nitroaniline	100016	µg/Kg	0%	63	260 U	290 U	220 U	270 U	210 U	210 U	240 U
4-Nitrophenol	100027	µg/Kg	0%	63	260 U	290 U	220 U	270 U	210 U	210 U	240 U
Acetophenone	98862	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Atrazine	1912249	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Benzaldehyde	100527	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Benzoic acid	65850	µg/Kg	0%	46	100 UJ	120 UJ	87 UJ	110 UJ	85 UJ	85 UJ	95 UJ
Benzyl alcohol	100516	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
bis(2-Chloroethoxy)methane	111911	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Bis(2-chloroethyl)ether	111444	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Bis(2-ethylhexyl)phthalate	117817	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Butyl benzyl phthalate	85687	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Caprolactam	105602	µg/Kg	3%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Carbazole	86748	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Di-n-butyl phthalate	84742	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Di-n-octylphthalate	117840	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Diethyl phthalate	84662	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Dimethyl phthalate	131113	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Hexachloroethane	67721	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Isophorone	78591	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
N-Nitrosodi-n-propylamine	621647	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
N-Nitrosodiphenylamine	86306	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Nitrobenzene	98953	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U

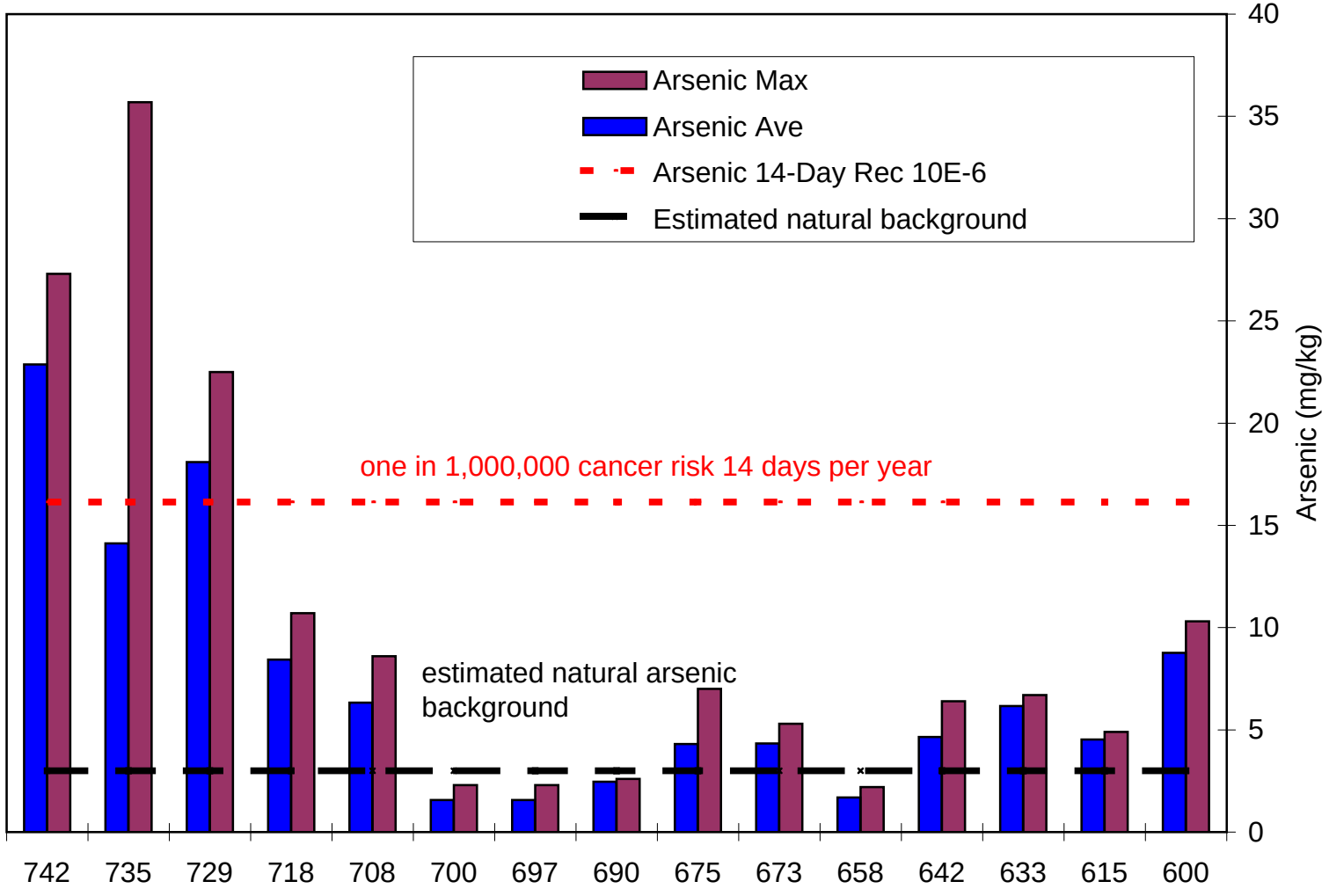
TABLE B-1
Beach Data Listing--UCR 2005 Sediment Sampling Event
Upper Columbia River RI/FS

Station ID:					**RM735B2R**	**RM735B3c**	**RM735B3L**	**RM735B3R**	**RM742B1**	**RM742B2**	**RM742B3**
Date Collected:					11-Apr-05	11-Apr-05	11-Apr-05	11-Apr-05	09-Apr-05	09-Apr-05	09-Apr-05
Sample Type:					Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample	Beach Subsample Composite	Beach Subsample Composite	Beach Subsample Composite
Elevation:					1278	1275	1275	1275	1303	1297	1293
Analyte	**CAS**	**Units**	**Frequency of Detection**	**Number of Samples**							
Pentachlorophenol	87865	µg/Kg	0%	63	260 U	290 U	220 U	270 U	210 U	210 U	240 U
Perchlorocyclopentadiene	77474	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Phenol	108952	µg/Kg	0%	63	100 U	120 U	87 U	110 U	85 U	85 U	95 U
Dioxins and Furans											
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822469	pg/g	47%	36	--	--	--	--	0.31 U	0.23 U	0.38 U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	pg/g	58%	36	--	--	--	--	0.085 U	0.094 U	0.12 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	pg/g	3%	36	--	--	--	--	0.034 U	0.038 U	0.040 U
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227286	pg/g	39%	36	--	--	--	--	0.041 U	0.056 U	0.034 U
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	pg/g	11%	36	--	--	--	--	0.028 U	0.027 U	0.034 U
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653857	pg/g	44%	36	--	--	--	--	0.040 U	0.055 U	0.035 U
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	pg/g	19%	36	--	--	--	--	0.027 U	0.028 U	0.029 U
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408743	pg/g	42%	36	--	--	--	--	0.040 U	0.055 U	0.034 U
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	pg/g	6%	36	--	--	--	--	0.039 U	0.036 U	0.039 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764	pg/g	28%	36	--	--	--	--	0.028 U	0.026 U	0.024 U
1,2,3,7,8-Pentachlorodibenzofuran	57117416	pg/g	19%	36	--	--	--	--	0.021 U	0.019 U	0.034 U
2,3,4,6,7,8-Hexachlorodibenzofuran	60851345	pg/g	17%	36	--	--	--	--	0.026 U	0.027 U	0.029 U
2,3,4,7,8-Pentachlorodibenzofuran	57117314	pg/g	33%	36	--	--	--	--	0.038 U	0.034 U	0.045 U
2,3,7,8-Tetrachlorodibenzodioxin	1746016	pg/g	19%	36	--	--	--	--	0.057 U	0.034 U	0.052 U
2,3,7,8-Tetrachlorodibenzofuran	51207319	pg/g	64%	36	--	--	--	--	0.36	0.43	0.24 J
Heptachlorodibenzodioxin (Total)	37871004	pg/g	83%	36	--	--	--	--	0.65	0.47	0.75
Heptachlorodibenzofuran (Total)	38998753	pg/g	72%	36	--	--	--	--	0.18 J	0.17 J	0.27 J
Hexachlorodibenzodioxin (Total)	34465468	pg/g	81%	36	--	--	--	--	0.053	0.067	0.034 U
Hexachlorodibenzofuran (Total)	55684941	pg/g	86%	36	--	--	--	--	0.10	0.029 U	0.11
Octachlorodibenzodioxin	3268879	pg/g	58%	36	--	--	--	--	1.8 U	1.3 U	2.7 U
Octachlorodibenzofuran	39001020	pg/g	58%	36	--	--	--	--	0.17 U	0.13 U	0.23 U
Pentachlorodibenzodioxin (Total)	36088229	pg/g	53%	36	--	--	--	--	0.028 U	0.026 U	0.024 U
Pentachlorodibenzofuran (Total)	30402154	pg/g	64%	36	--	--	--	--	0.032	0.064	0.020 U
TEQ WHO-98	TEQ	pg/g	92%	36	--	--	--	--	0.036	0 U	0.024
Tetrachlorodibenzodioxin (Total)	41903575	pg/g	42%	36	--	--	--	--	0.057 U	0.034 U	0.052 U
Tetrachlorodibenzofuran (Total)	55722275	pg/g	81%	36	--	--	--	--	0.59	0.74	0.35

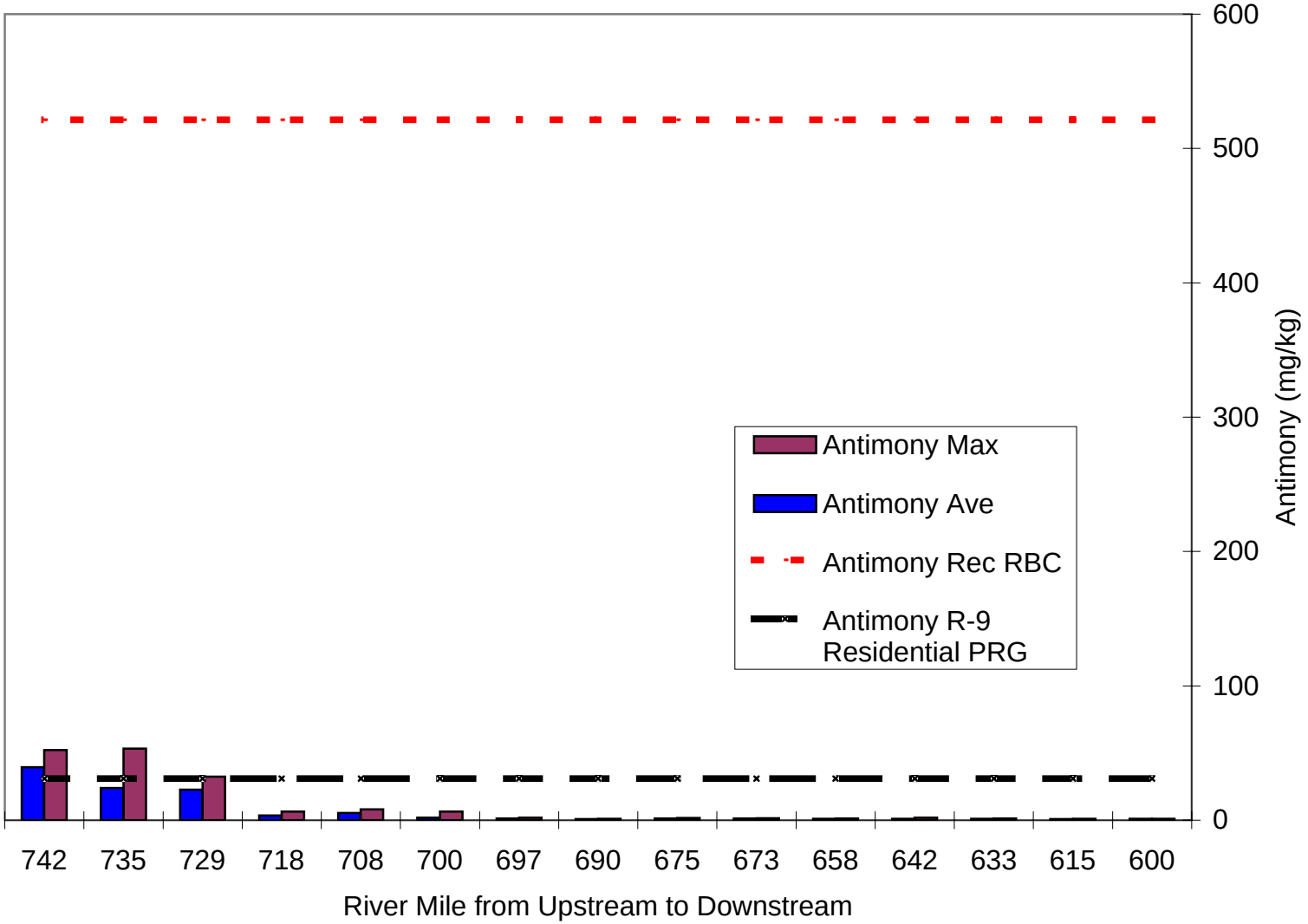
APPENDIX C

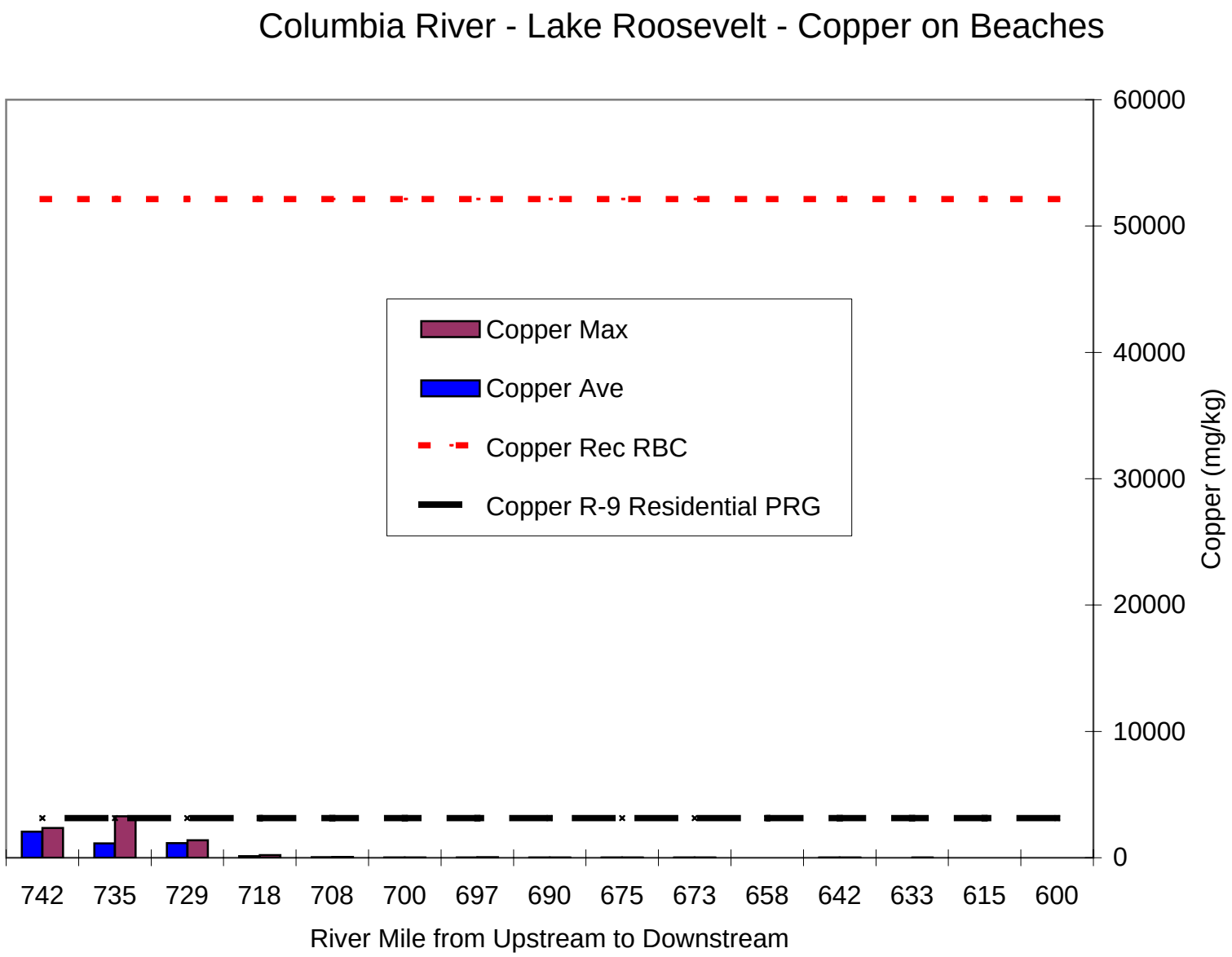
Graphs of Metals of Concern Compared with PRGs

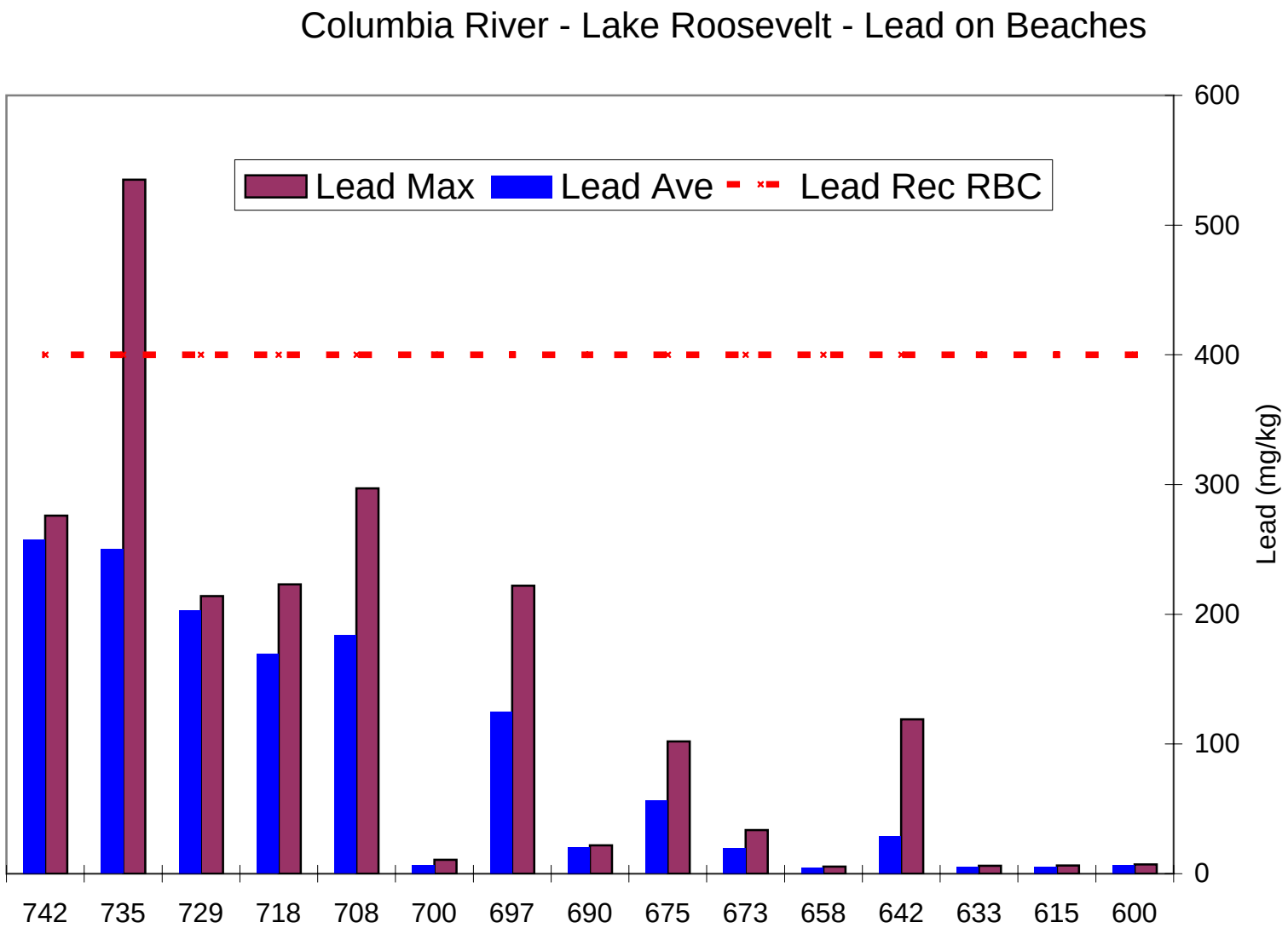
Columbia River - Lake Roosevelt - Arsenic on Beaches

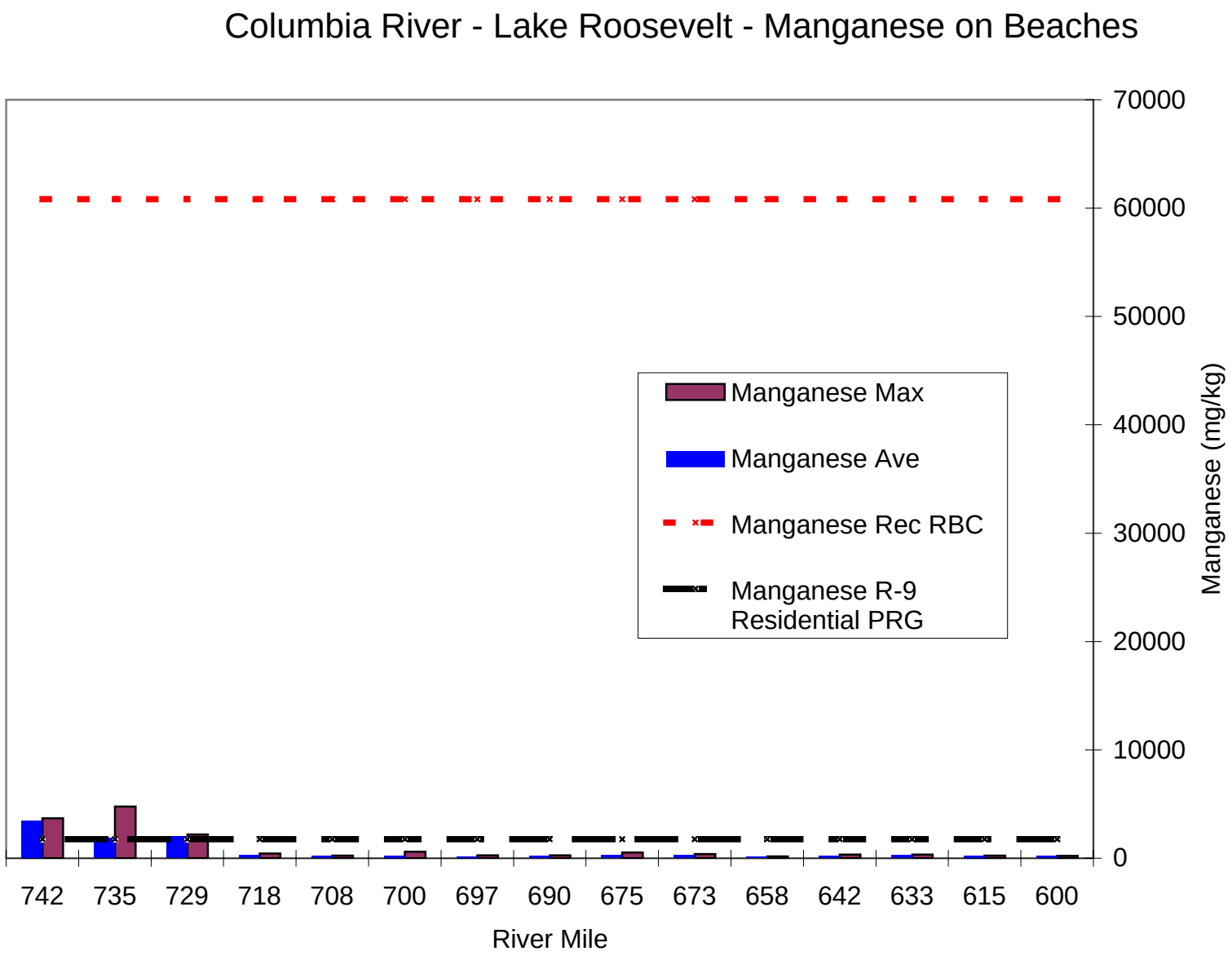


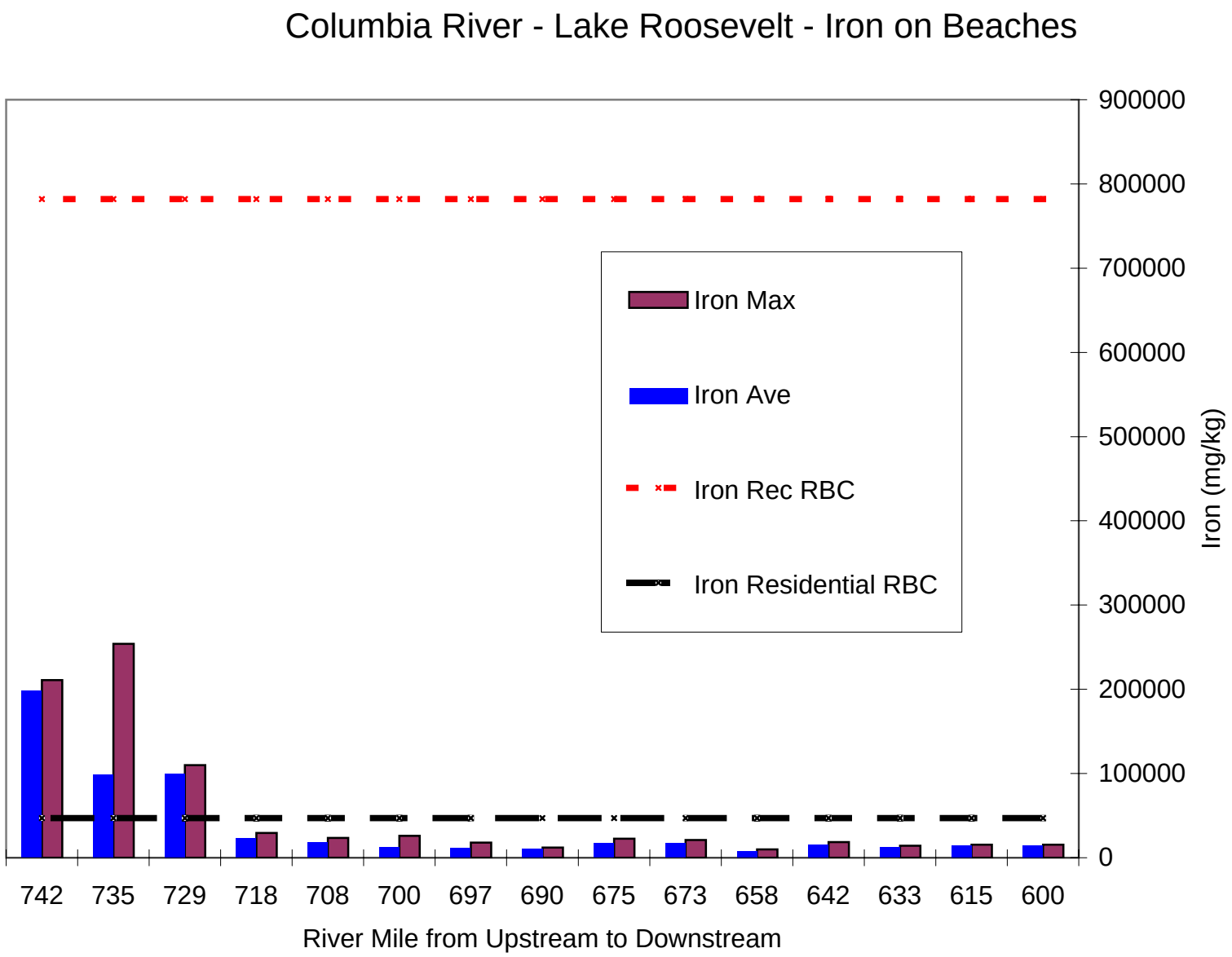
Columbia River - Lake Roosevelt - Antimony on Beaches



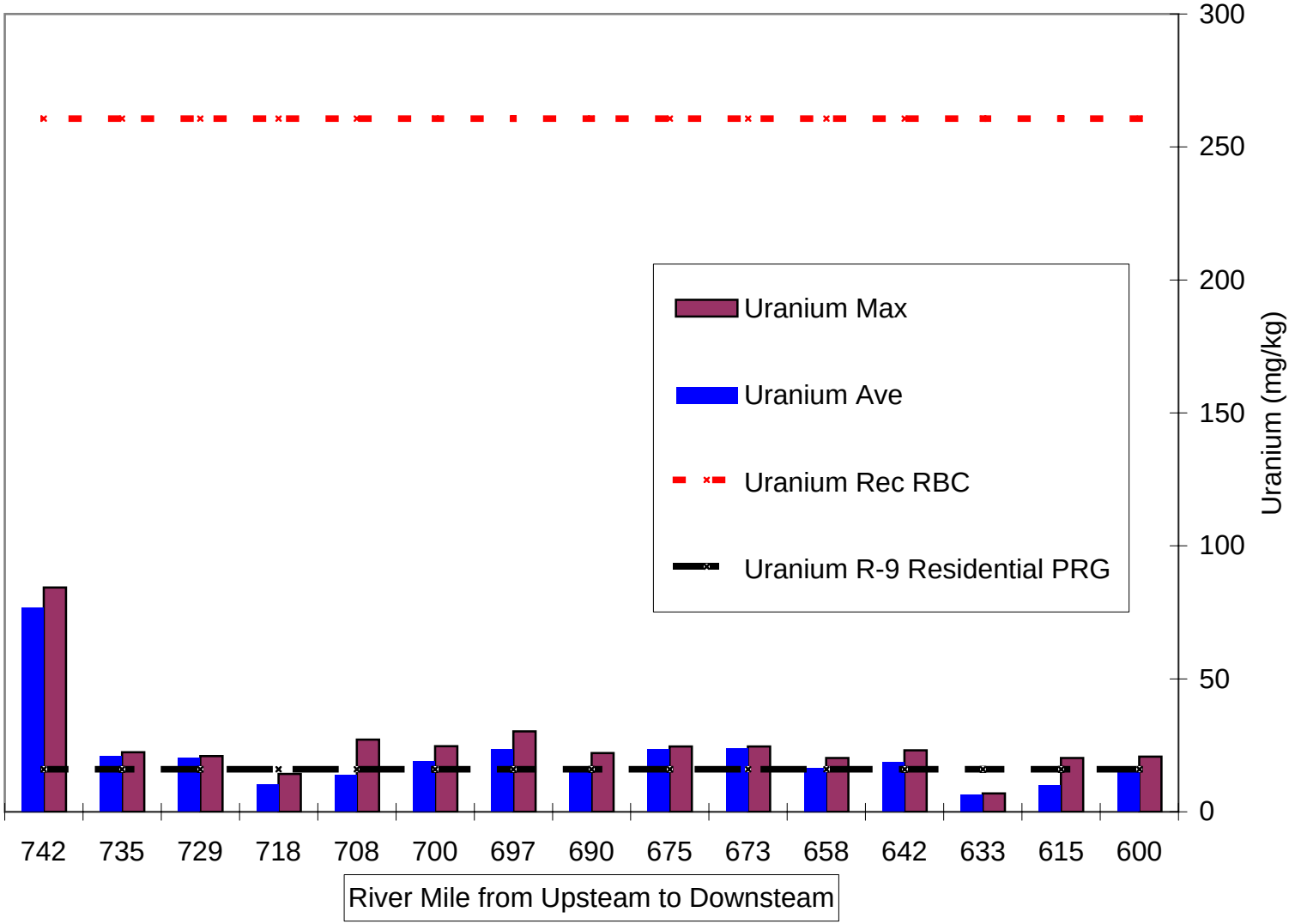

Columbia River - Lake Roosevelt - Copper on Beaches
60000
50000
40000
30000
20000
10000
0
Copper (mg/kg)
Copper Max
Copper Ave
Copper Rec RBC
Copper R-9 Residential PRG
742
735
729
718
708
700
697
690
675
673
658
642
633
615
600
River Mile from Upstream to Downstream


Columbia River - Lake Roosevelt - Lead on Beaches
Lead Max
Lead Ave
Lead Rec RBC
Lead (mg/kg)
600
500
400
300
200
100
0
742
735
729
718
708
700
697
690
675
673
658
642
633
615
600


Columbia River - Lake Roosevelt - Manganese on Beaches
70000
60000
50000
40000
30000
20000
10000
0
Manganese (mg/kg)
Manganese Max
Manganese Ave
Manganese Rec RBC
Manganese R-9 Residential PRG
742
735
729
718
708
700
697
690
675
673
658
642
633
615
600
River Mile


Columbia River - Lake Roosevelt - Iron on Beaches
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Iron (mg/kg)
Iron Max
Iron Ave
Iron Rec RBC
Iron Residential RBC
742
735
729
718
708
700
697
690
675
673
658
642
633
615
600
River Mile from Upstream to Downstream

Columbia River - Lake Roosevelt - Uranium on Beaches



APPENDIX D

Recreational PRG Calculation Worksheets

Pathway	Contact Rate IRS,soil or SA,derm. or IR, water (mg/day)		adherence (mg/cm-2)	Conversion Factor CF (soil - kg/mg)	Event Frequency EF (days/years) or hr/yr H_2O	Duration ED (years)	Body Weight BW (kg)	Averaging Time AT noncarcin. ATn	Averaging Time AT carcinogens ATc	noncarcinogens (child-adult)	Age Adjusted Factors mg-yr / kg-day noncarcinogens child,only	Age Adjusted Factors mg-yr / kg-day carcinogens child-adult
Ingestion Soil	300	child	1	1E-06	14	6	15	2,190	25,550	154	120	154
RECREATIONAL	100	adult	1		14	24	70	8,760				
Dermal Soil	6600	cm^2, child	0.2	1E-06	14	6	15	2,190	25,550	960	528	960
RECREATIONAL	18000	cm^2, adult	0.07		14	24	70	8,760				
Ingestion Soil	200	child	1	1E-06	350	6	15	2,190	25,550	114	80	114
RESIDENTIAL	100	adult	1		350	24	70	8,760				
Dermal Soil	2800	cm^2, child	0.2	1E-06	350	6	15	2,190	25,500	361	224	361
RESIDENTIAL	5700	cm^2, adult	0.07		350	24	70	8,760				

Chemical	Oral Absorp. ABSo	Dermal Absorp. ABSd	Ref. Dose RfD (mg/kg/day)	Hazard Quotient HQ unitless	Target Risk unitless	Slope Factor SF $(mg/kg/day)^{-1}$
Arsenic - cancer	0.6	0.03	0.0003	-	1.E-06	1.5
Arsenic - noncancer	0.6	0.03	0.0003	1		

Chemical	Recreational Soil & Dermal (Integrated Adult-Child) mg/kg	Recreational Soil & derm. Kids only mg/kg		Recreational Soil ing. Kids mg/kg	Residential soil ing. (Integrated Adult-Child) mg/kg	Residential Soil & derm. Kids mg/kg	Residential Soil ing. Kids mg/kg
Arsenic - cancer	16.143609				3.7		
As - noncancer		1339		1418		89	97

Pathway	Contact Rate IRS,soil or SA,derm. or IR, water (mg/day)	Conversion Factor CF (soil - kg/mg)	Event Frequency EF (days/years)	Duration ED (years)	Body Weight BW (kg)	Averaging Time AT noncarcin. ATn	Averaging Time AT carcinogens ATc	Summary Intake Factor (SIF) noncarcinogens (child-adult)	Summary Intake Factor (SIF) noncarcinogens child,only	Summary Intake Factor (SIF) carcinogens child-adult
Ingestion Soil RECREATIONAL	300 child 100 adult	1E-06	14 14	6 24	15 70	2,190 8,760	25,550	1.97E-07	7.67E-07	8.45E-08
Dermal Soil RECREATIONAL	6600 cm^2, child 18000 cm^2, adult	1.00E-06	14 14	6 24	15 70	2,190 8,760	25,550	1.13E-05	1.69E-05	4.83E-06
Ingestion Soil RESIDENTIAL	200 child 100 adult	1.00E-06	350 350	6 24	15 70	2,190 8,760	25,550	3.65E-06	1.28E-05	1.57E-06
Dermal Soil RESIDENTIAL	2800 cm^2, child 5700 cm^2, adult	1.00E-06	350 350	6 24	15 70	2,190 8,760	25,500	9.83E-05	1.79E-04	4.21E-05

Chemical	Oral Absorp. ABSo	Dermal Absorp. ABSd	Adherence Factor (AF) children mg/cm^2	Adherence Factor (AF) adults mg/cm^2	Ref. Dose RfD (mg/kg/day)	Hazard Quotient HQ unitless
Antimony - noncancer	1	0	0.2	0.2	0.0004	1

Chemical	Recreational Soil & derm. Kids only mg/kg	Recreational Soil ing. Kids mg/kg	Residential soil ing. (Integrated Adult-Child) mg/kg	Residential Soil & derm. Kids mg/kg	Residential Soil ing. Kids mg/kg		
Antimony - noncancer	521	521	110	31	31		

Pathway	Contact Rate IRS,soil or SA,derm. or IR, water (mg/day)	Conversion Factor CF (soil - kg/mg)	Event Frequency EF (days/years)	Duration ED (years)	Body Weight BW (kg)	Averaging Time AT noncarcin. ATn	Averaging Time AT carcinogens ATc	Summary Intake Factor (SIF) noncarcinogens (child-adult)	Summary Intake Factor (SIF) noncarcinogens child,only	Summary Intake Factor (SIF) carcinogens child-adult
Ingestion Soil RECREATIONAL	300 child 100 adult	1E-06	14 14	6 24	15 70	2,190 8,760	25,550	1.97E-07	7.67E-07	8.45E-08
Dermal Soil RECREATIONAL	6600 cm^2, child 18000 cm^2, adult	1.00E-06	14 14	6 24	15 70	2,190 8,760	25,550	1.13E-05	1.69E-05	4.83E-06
Ingestion Soil RESIDENTIAL	200 child 100 adult	1.00E-06	350 350	6 24	15 70	2,190 8,760	25,550	3.65E-06	1.28E-05	1.57E-06
Dermal Soil RESIDENTIAL	2800 cm^2, child 5700 cm^2, adult	1.00E-06	350 350	6 24	15 70	2,190 8,760	25,500	9.83E-05	1.79E-04	4.21E-05

Chemical	Oral Absorp. ABSo	Dermal Absorp. ABSd	Adherence Factor (AF) children mg/cm^2	Adherence Factor (AF) adults mg/cm^2	Ref.* Dose RfD (mg/kg/day)	Hazard Quotient HQ unitless
Copper - noncancer	1	0	0.2	0.2	0.040	1

RfD for copper is based on Heast as cited by Region 9 PRG

Chemical	Recreational Soil & derm. Kids only mg/kg	Recreational Soil ing. Kids mg/kg	Residential soil ing. (Integrated Adult-Child) mg/kg	Residential Soil & derm. Kids mg/kg	Residential Soil ing. Kids mg/kg		
Copper - noncancer	52143	52143	10950	3129	3129		

Pathway	Contact Rate IRS,soil or SA,derm. or IR, water (mg/day)	Conversion Factor CF (soil - kg/mg)	Event Frequency EF (days/years)	Duration ED (years)	Body Weight BW (kg)	Averaging Time AT noncarcin. ATn	Averaging Time AT carcinogens ATc	Summary Intake Factor (SIF) noncarcinogens (child-adult)	Summary Intake Factor (SIF) noncarcinogens child,only	Summary Intake Factor (SIF) carcinogens child-adult
Ingestion Soil RECREATIONAL	300 child 100 adult	1E-06	14 14	6 24	15 70	2,190 8,760	25,550	1.97E-07	7.67E-07	8.45E-08
Dermal Soil RECREATIONAL	6600 cm^2, child 18000 cm^2, adult	1.00E-06	14 14	6 24	15 70	2,190 8,760	25,550	1.13E-05	1.69E-05	4.83E-06
Ingestion Soil RESIDENTIAL	200 child 100 adult	1.00E-06	350 350	6 24	15 70	2,190 8,760	25,550	3.65E-06	1.28E-05	1.57E-06
Dermal Soil RESIDENTIAL	2800 cm^2, child 5700 cm^2, adult	1.00E-06	350 350	6 24	15 70	2,190 8,760	25,500	9.83E-05	1.79E-04	4.21E-05

Chemical	Oral Absorp. ABSo	Dermal Absorp. ABSd	Adherence Factor (AF) children mg/cm^2	Adherence Factor (AF) adults mg/cm^2	Ref.* Dose RfD (mg/kg/day)	Hazard Quotient HQ unitless
Iron - noncancer	1	0	0.2	0.2	0.600	1

Chemical	Recreational Soil & derm. Kids only mg/kg	Recreational Soil ing. Kids mg/kg	Residential soil ing. (Integrated Adult-Child) mg/kg	Residential Soil & derm. Kids mg/kg	Residential Soil ing. Kids mg/kg		
Iron - noncancer	782143	782143	164250	46929	46929		

Pathway	Contact Rate IRS,soil or SA,derm. or IR, water (mg/day)	Conversion Factor CF (soil - kg/mg)	Event Frequency EF (days/years)	Duration ED (years)	Body Weight BW (kg)	Averaging Time AT noncarcin. ATn	Averaging Time AT carcinogens ATc	Summary Intake Factor (SIF) noncarcinogens (child-adult)	Summary Intake Factor (SIF) noncarcinogens child,only	Summary Intake Factor (SIF) carcinogens child-adult
Ingestion Soil RECREATIONAL	300 child 100 adult	1E-06	14 14	6 24	15 70	2,190 8,760	25,550	1.97E-07	7.67E-07	8.45E-08
Dermal Soil RECREATIONAL	6600 cm^2, child 18000 cm^2, adult	1.00E-06	14 14	6 24	15 70	2,190 8,760	25,550	1.13E-05	1.69E-05	4.83E-06
Ingestion Soil RESIDENTIAL	200 child 100 adult	1.00E-06	350 350	6 24	15 70	2,190 8,760	25,550	3.65E-06	1.28E-05	1.57E-06
Dermal Soil RESIDENTIAL	2800 cm^2, child 5700 cm^2, adult	1.00E-06	350 350	6 24	15 70	2,190 8,760	25,500	9.83E-05	1.79E-04	4.21E-05

Chemical	Oral Absorp. ABSo	Dermal Absorp. ABSd	Adherence Factor (AF) children mg/cm^2	Adherence Factor (AF) adults mg/cm^2	Ref.* Dose RfD (mg/kg/day)	Hazard Quotient HQ unitless
Manganese - noncancer	1	0	0.2	0.2	0.047	1

*Note: IRIS Mn RfD is 0.14 with a MF of 3 for non-dietary assessments (.14/3 = .047)

Chemical	Recreational Soil & derm. Kids only mg/kg	Recreational Soil ing. Kids mg/kg	Residential soil ing. (Integrated Adult-Child) mg/kg	Residential Soil & derm. Kids mg/kg	Residential Soil ing. Kids mg/kg		
Manganese - noncancer	60833	60833	12775	3650	3650		

Pathway	Contact Rate IRS,soil or SA,derm. or IR, water (mg/day)	Conversion Factor CF (soil - kg/mg)	Event Frequency EF (days/years)	Duration ED (years)	Body Weight BW (kg)	Averaging Time AT noncarcin. ATn	Averaging Time AT carcinogens ATc	Summary Intake Factor (SIF) noncarcinogens (child-adult)	Summary Intake Factor (SIF) noncarcinogens child,only	Summary Intake Factor (SIF) carcinogens child-adult
Ingestion Soil RECREATIONAL	300 child 100 adult	1E-06	14 14	6 24	15 70	2,190 8,760	25,550	1.97E-07	7.67E-07	8.45E-08
Dermal Soil RECREATIONAL	6600 cm^2, child 18000 cm^2, adult	1.00E-06	14 14	6 24	15 70	2,190 8,760	25,550	1.13E-05	1.69E-05	4.83E-06
Ingestion Soil RESIDENTIAL	200 child 100 adult	1.00E-06	350 350	6 24	15 70	2,190 8,760	25,550	3.65E-06	1.28E-05	1.57E-06
Dermal Soil RESIDENTIAL	2800 cm^2, child 5700 cm^2, adult	1.00E-06	350 350	6 24	15 70	2,190 8,760	25,500	9.83E-05	1.79E-04	4.21E-05

Chemical	Oral Absorp. ABSo	Dermal Absorp. ABSd	Adherence Factor (AF) children mg/cm^2	Adherence Factor (AF) adults mg/cm^2	Ref.* Dose RfD (mg/kg/day)	Hazard Quotient HQ unitless
Uranium - noncancer	1	0	0.2	0.2	2.E-04	1

Chemical	Recreational Soil & derm. Kids only mg/kg	Recreational Soil ing. Kids mg/kg	Residential soil ing. (Integrated Adult-Child) mg/kg	Residential Soil & derm. Kids mg/kg	Residential Soil ing. Kids mg/kg		
Uranium - noncancer	261	261	55	16	16		

APPENDIX E

Sample Location Maps

2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1949 NOAA Bathymetry

- 10-foot Bottom Elevation Contours

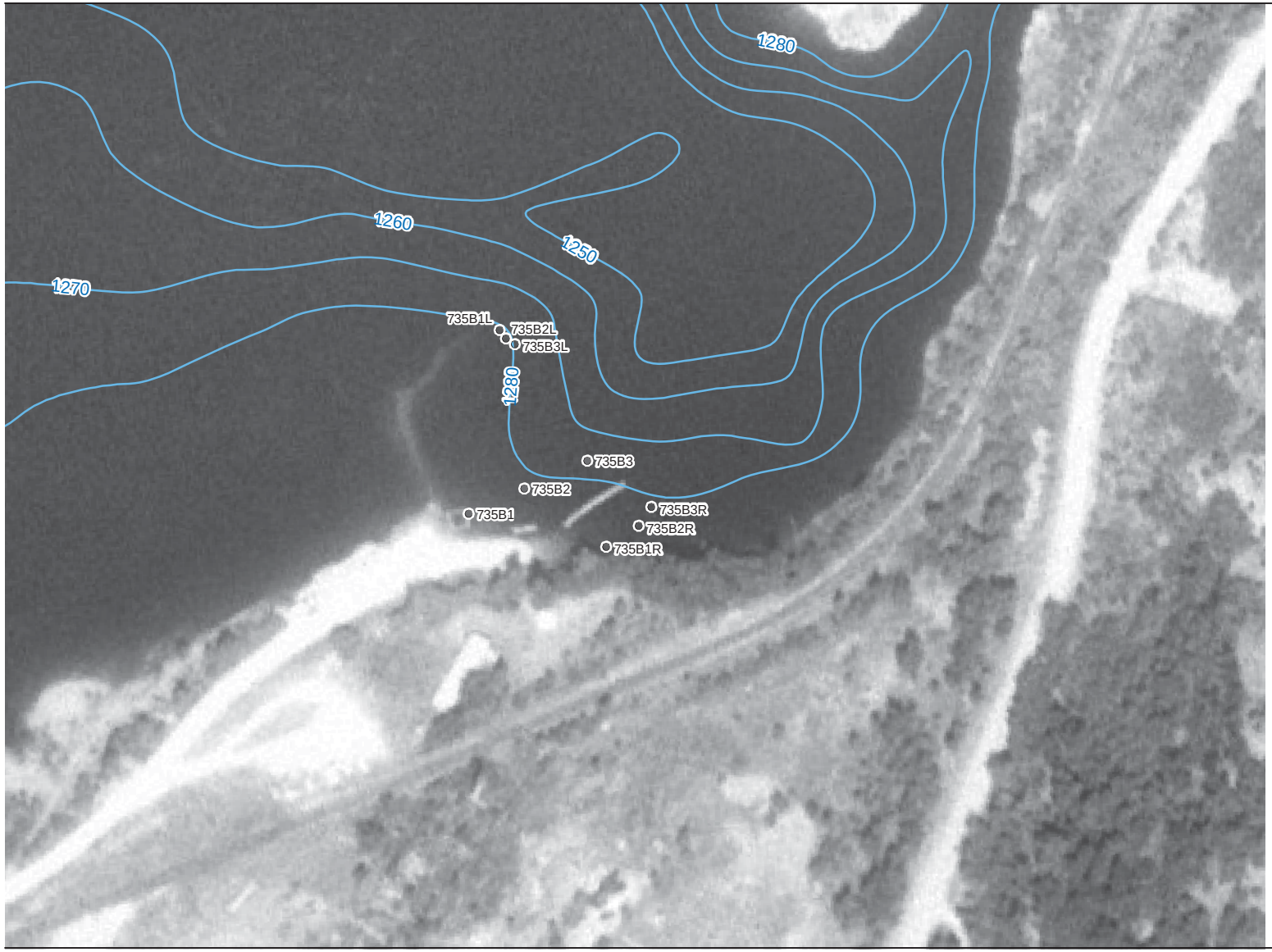
N

0 100 200
Approximate scale in feet

FIGURE 2-13
Black Sand Beach - RM 742
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

File Path: \\bbh\proj\USEnvironmentalProte\315904\GIS\MapDocuments\Mxds\2005 Sediment Sampling\Phase 1 Sediment Data Eval\Phase 1 Sed Data Eval Beaches Figure 2-13 to 2-27.mxd, Date: June 23, 2006 9:32:19 AM



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1949 NOAA Bathymetry

- 10-foot Bottom Elevation Contours

N

0 100 200
Approximate scale in feet

FIGURE 2-14
Northport City Boat Launch
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

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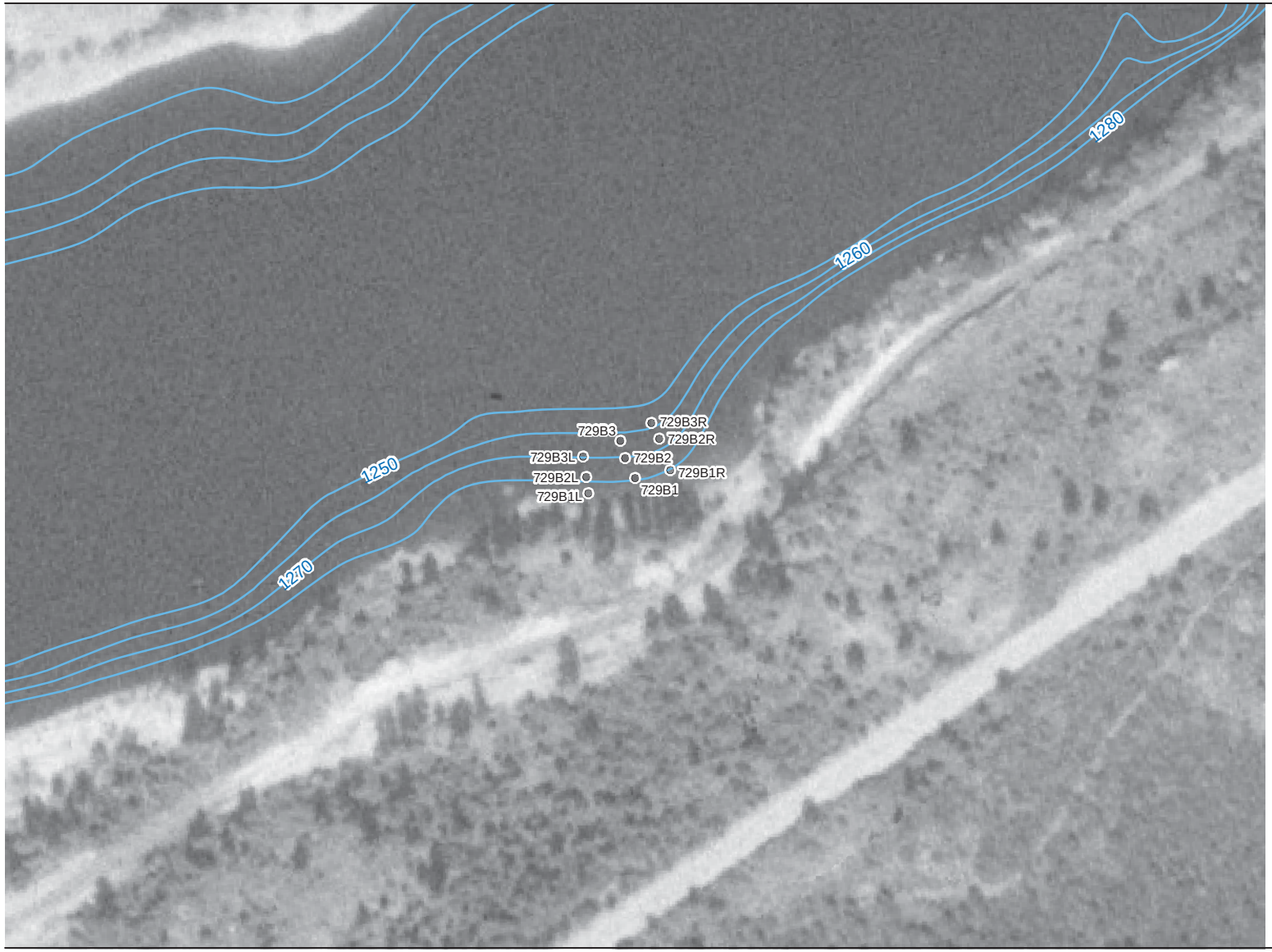

2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1949 NOAA Bathymetry

- 10-foot Bottom Elevation Contours

N

0 100 200
Approximate scale in feet

FIGURE 2-15
Dalles Orchard
2005 Beach Sample Locations
Upper Columbia River RI/FS

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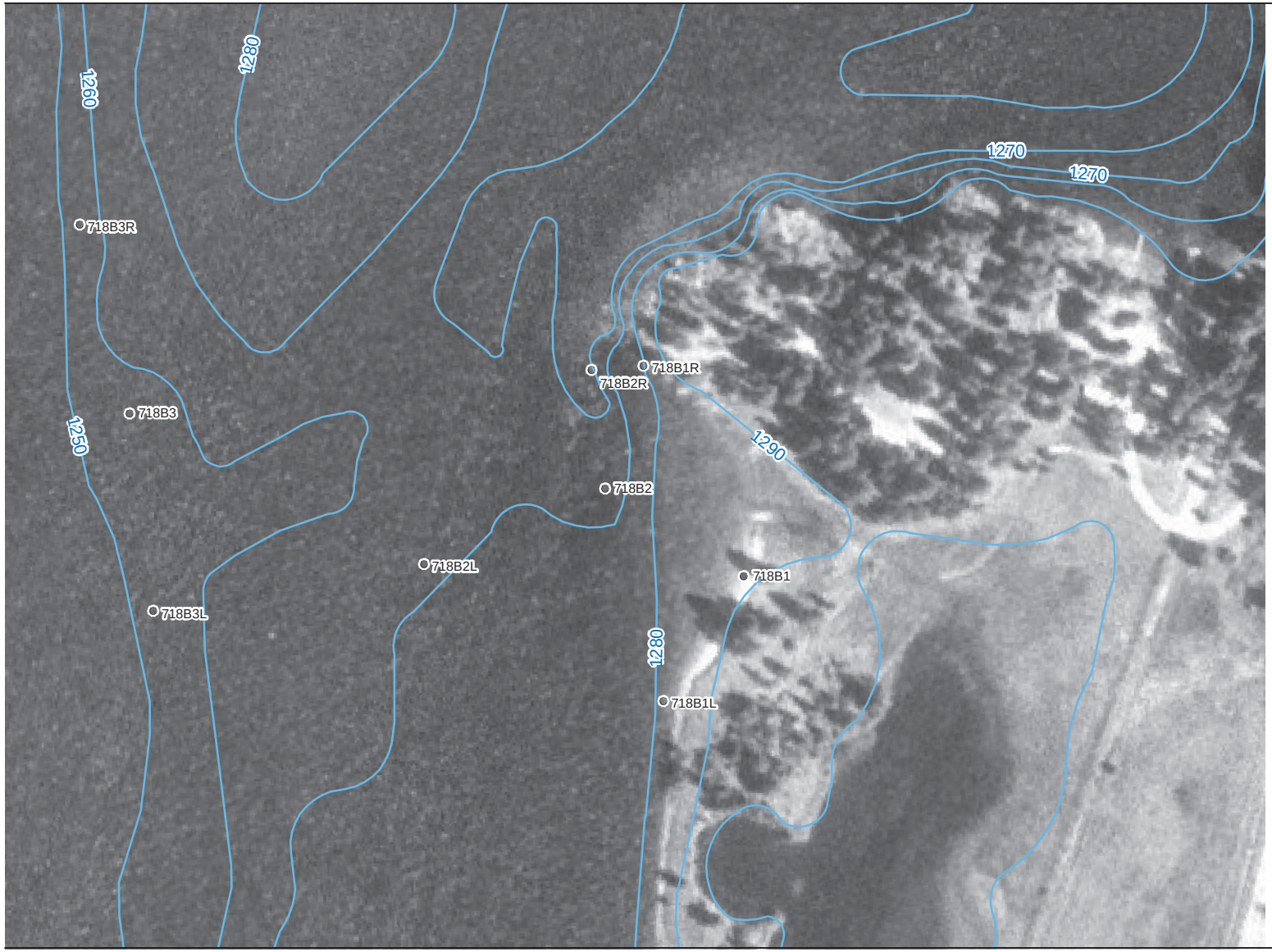

2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

N

0 100 200
Approximate scale in feet

FIGURE 2-16
North Gorge Campground
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

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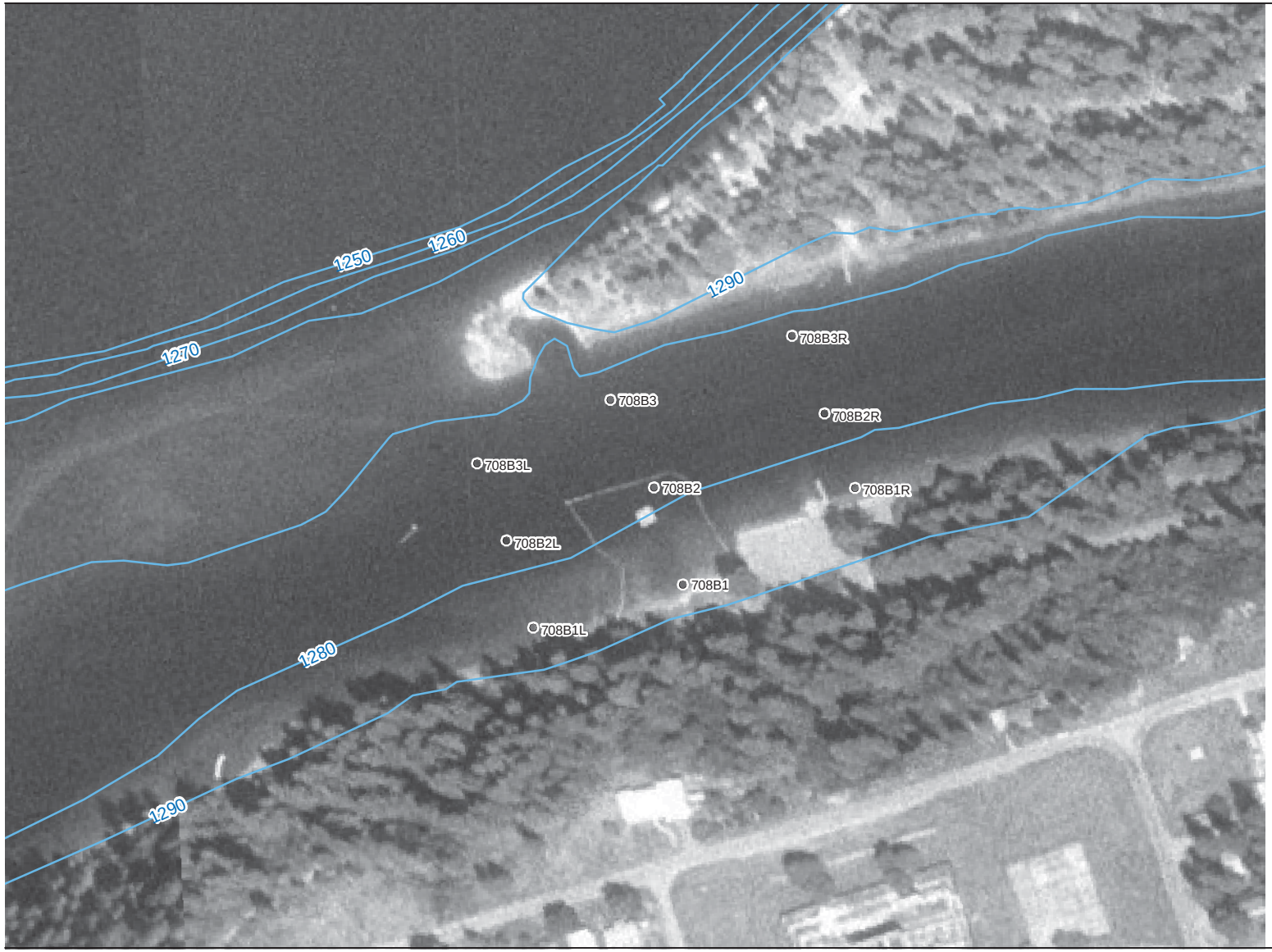

2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

N

0 100 200
Approximate scale in feet

FIGURE 2-17
Marcus Island Campground
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

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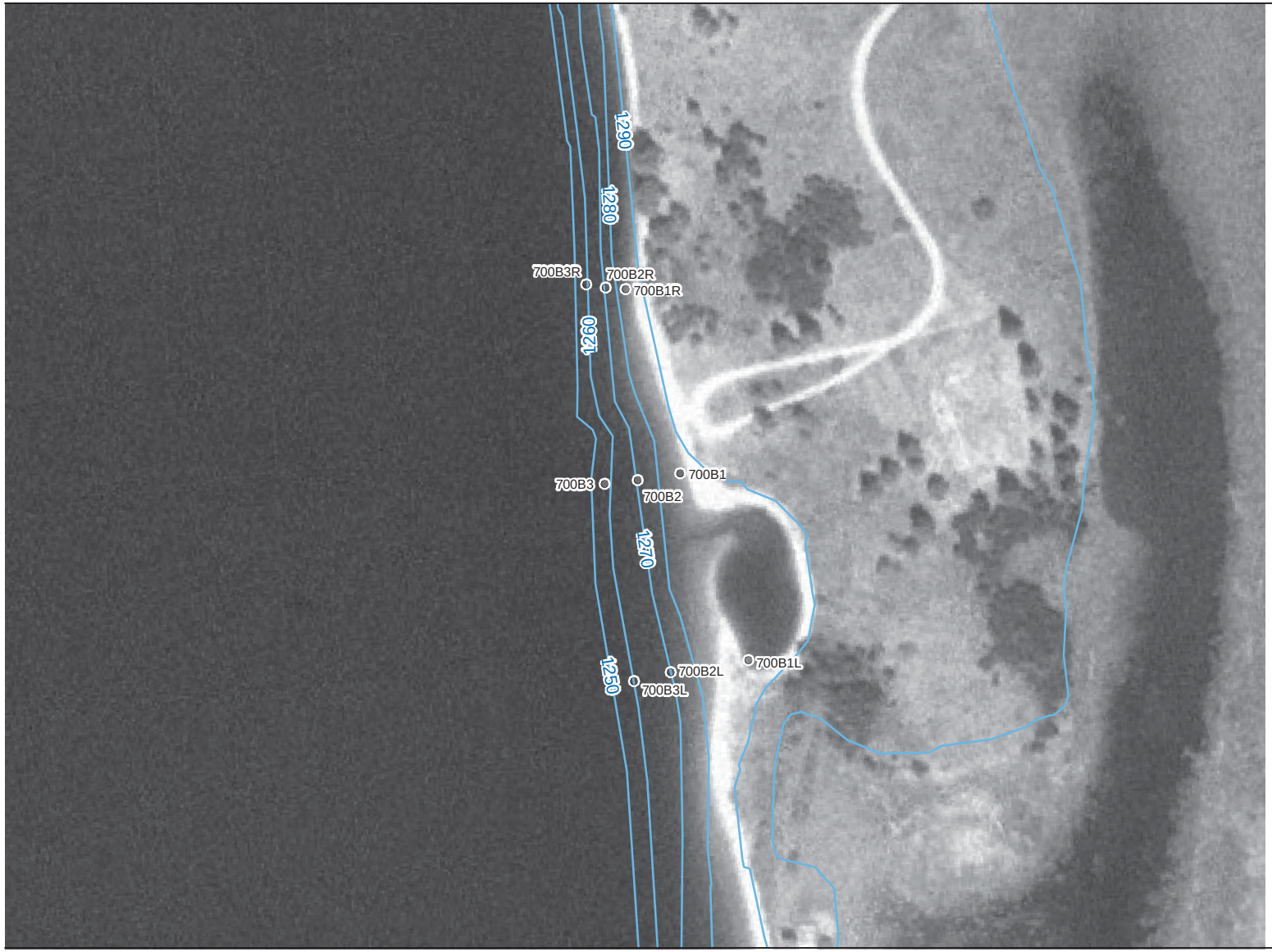

2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

N

0 100 200
Approximate scale in feet

FIGURE 2-18
Kettle Falls Swim Beach
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

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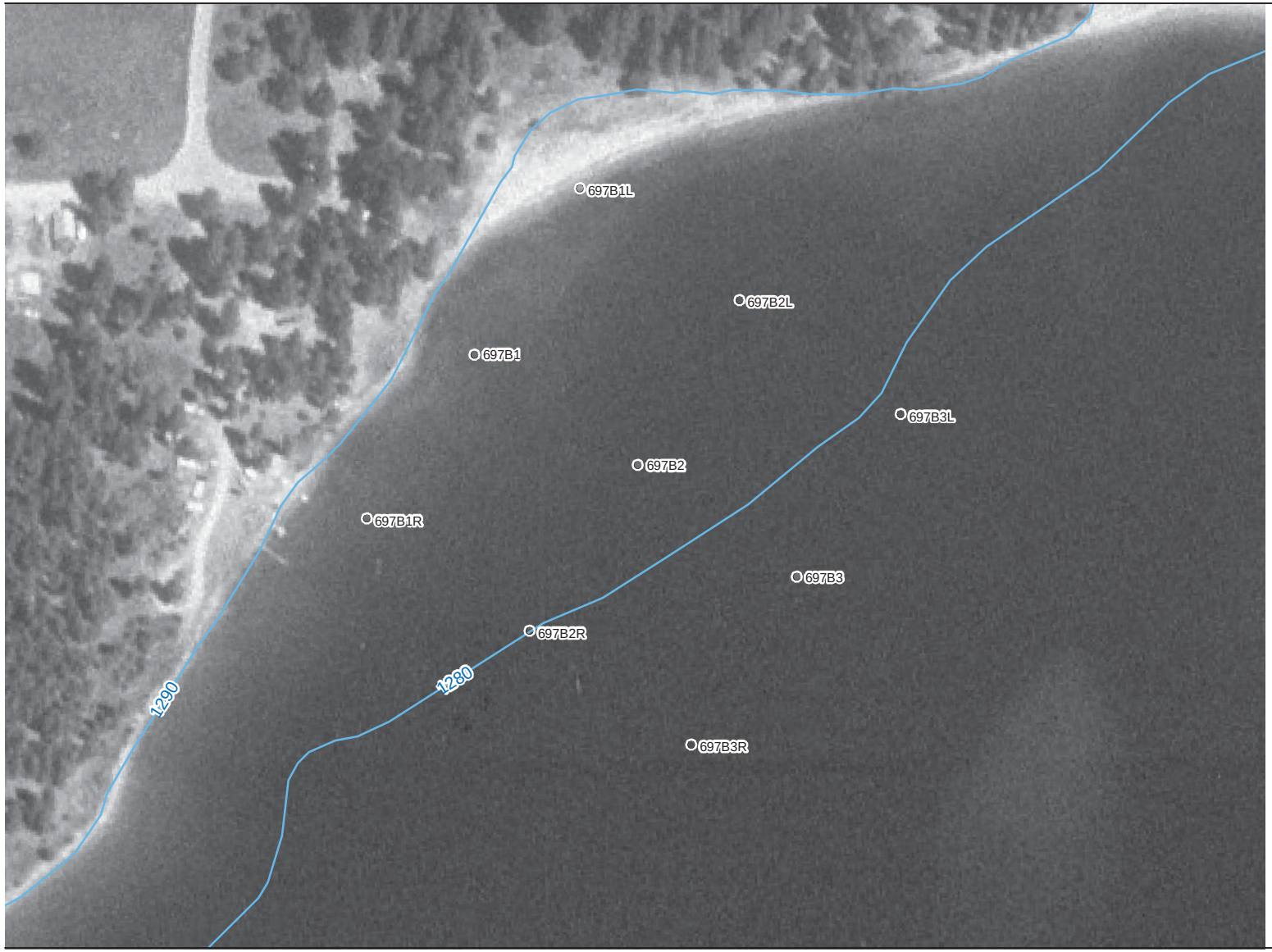


2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

N

0 100 200

Approximate scale in feet

FIGURE 2-19

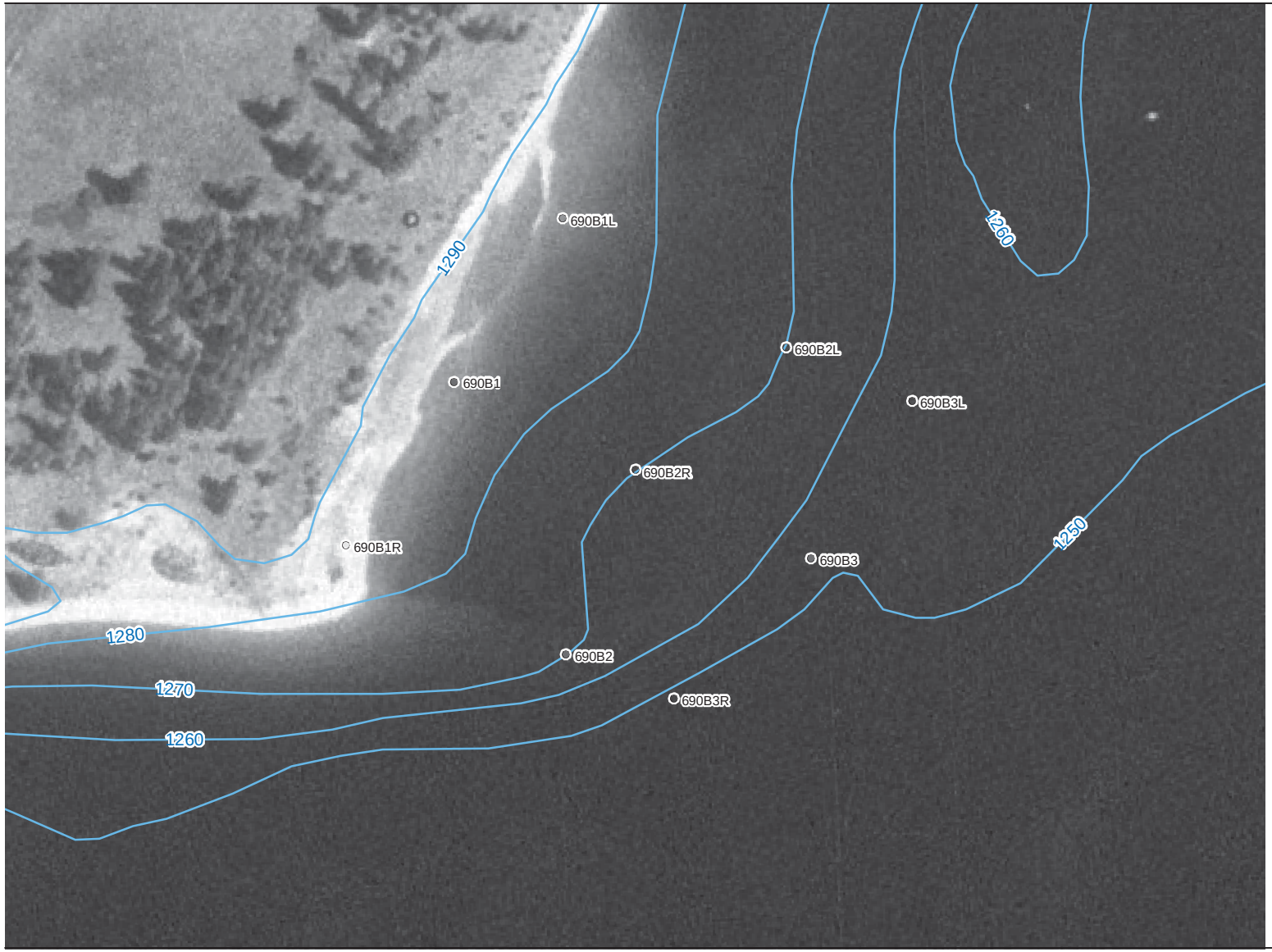
Haag Cove

2005 Beach Sample Locations

Upper Columbia River RI/FS

CH2MHILL

File Path: \\bbh\proj\USEnvironmentalProte\315904\GIS\MapDocuments\Mxds\2005 Sediment Sampling\Phase 1 Sediment Data Eval\Phase 1 Sed Data Eval Beaches Figure 2-13 to 2-27.mxd, Date: June 23, 2006 9:32:19 AM



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

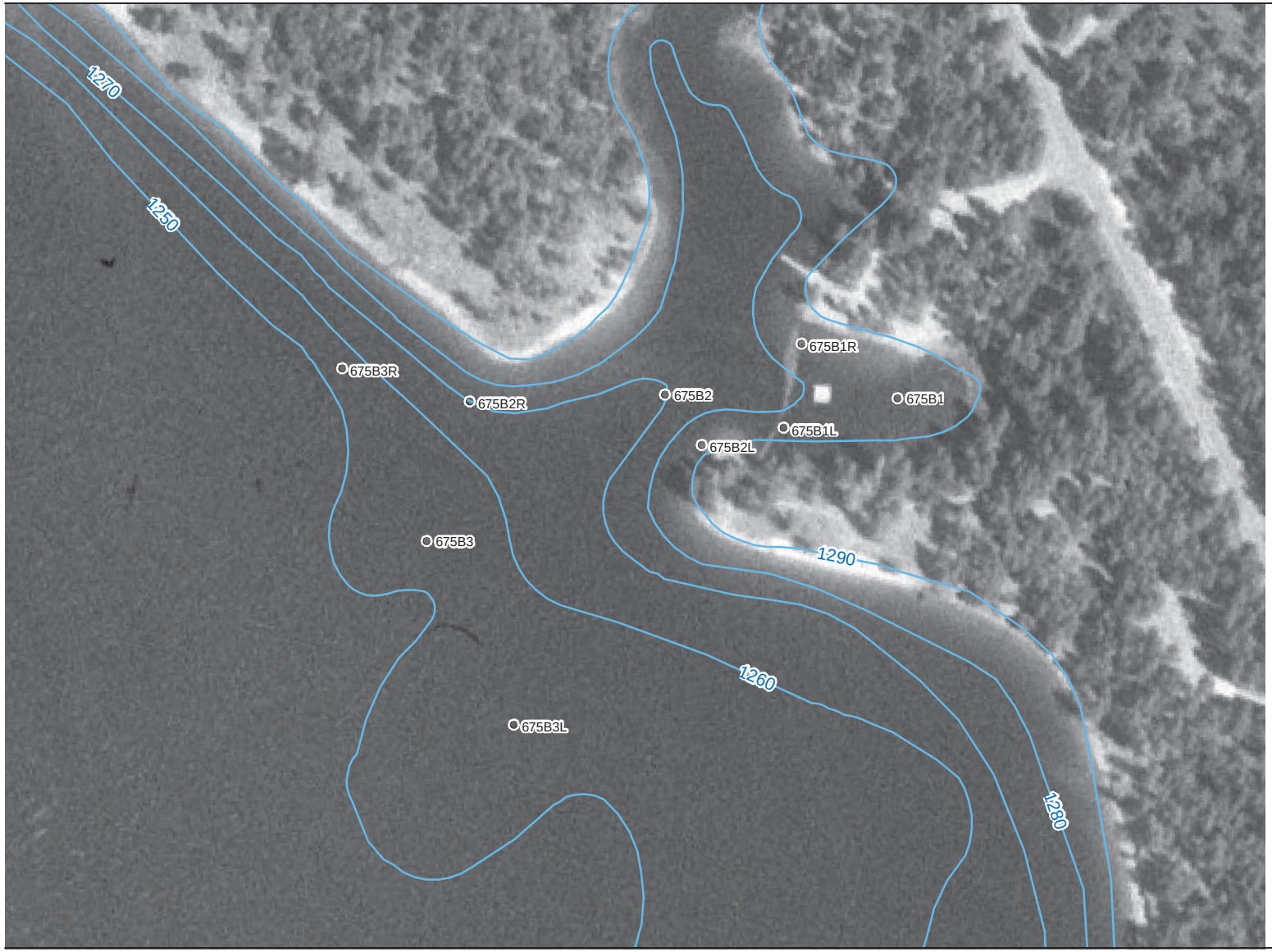
N

0 100 200
Approximate scale in feet

FIGURE 2-20
French Rocks Boat Launch
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

File Path: \\bbh\proj\USEnvironmentalProte\315904\GIS\MapDocuments\Mxds\2005 Sediment Sampling\Phase 1 Sediment Data Eval\Phase 1 Sed Data Eval Beaches Figure 2-13 to 2-27.mxd, Date: June 23, 2006 9:32:19 AM



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

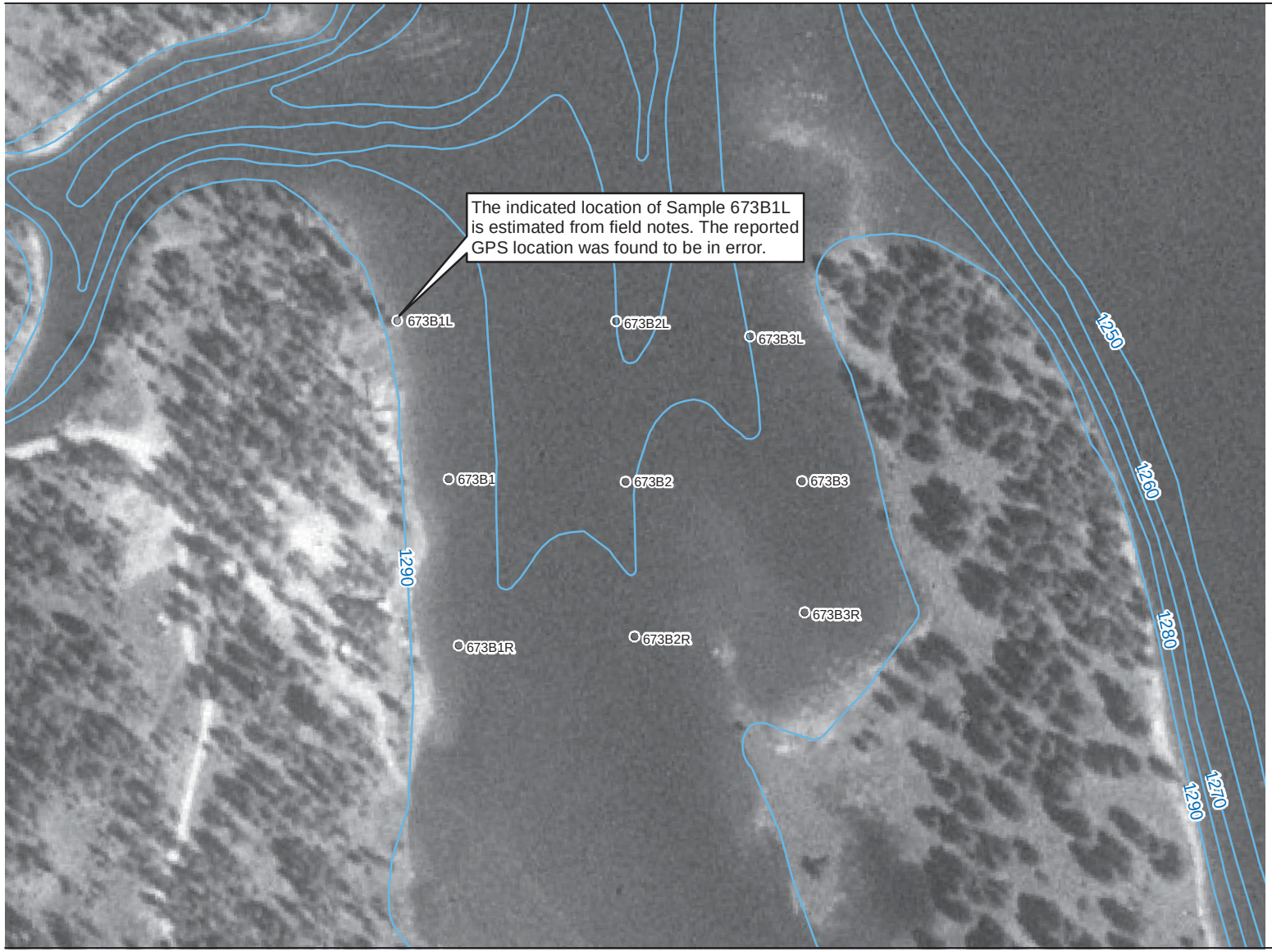
N

0 100 200
Approximate scale in feet

FIGURE 2-21
Cloverleaf Beach
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

File Path: \\bbh\proj\USEnvironmentalProte\315904\GIS\MapDocuments\Mxds\2005 Sediment Sampling\Phase 1 Sediment Data Eval\Phase 1 Sed Data Eval Beaches Figure 2-13 to 2-27.mxd, Date: June 23, 2006 9:32:19 AM



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

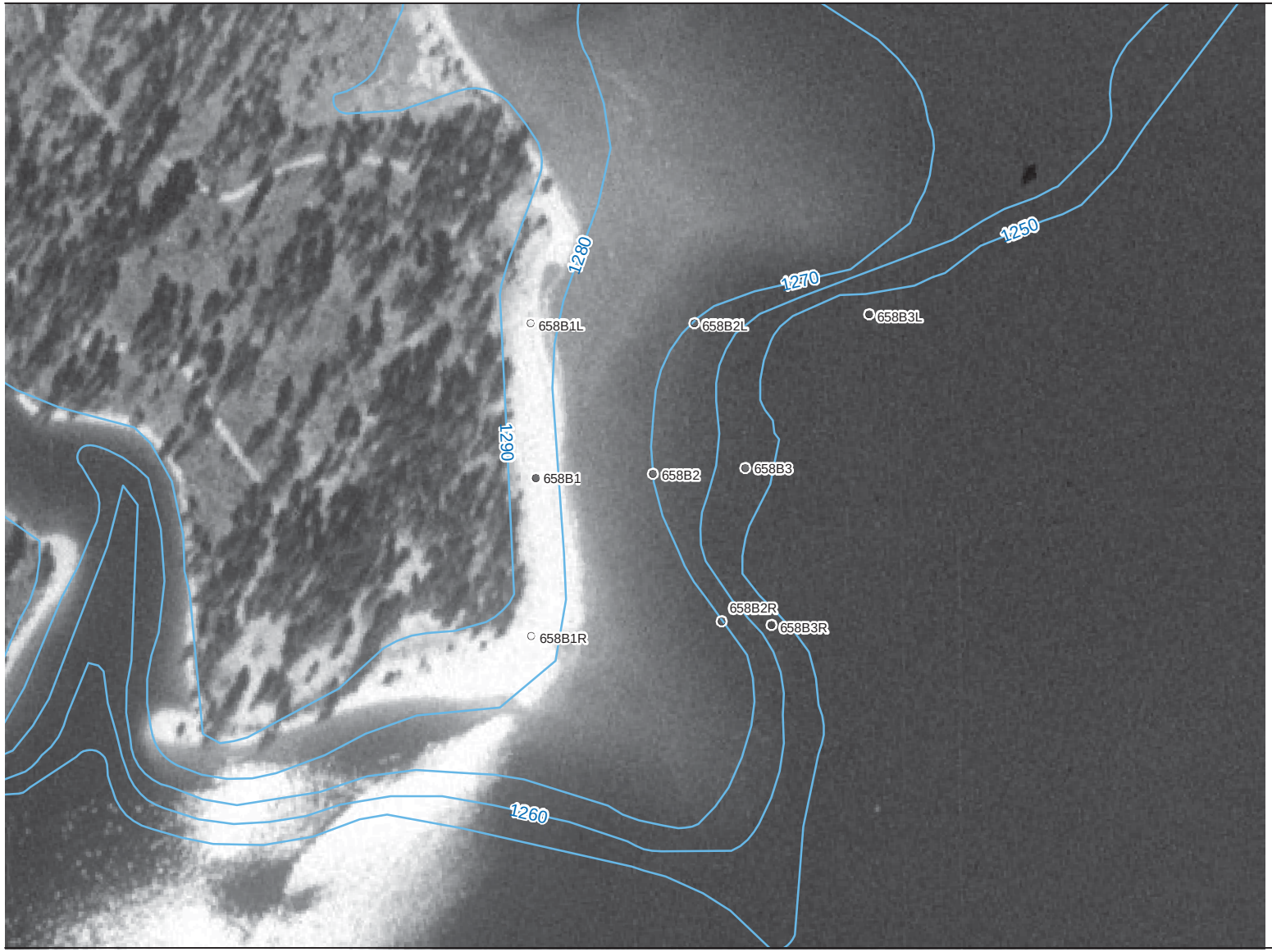
N

0 100 200
Approximate scale in feet

FIGURE 2-22
AA Campground
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

File Path: \\bbh\proj\USEnvironmentalProte\315904\GIS\MapDocuments\Mxds\2005 Sediment Sampling\Phase 1 Sediment Data Eval\Phase 1 Sed Data Eval Beaches Figure 2-13 to 2-27.mxd, Date: June 23, 2006 9:32:19 AM



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

N

0 100 200
Approximate scale in feet

FIGURE 2-23
Rogers Bar Campground
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

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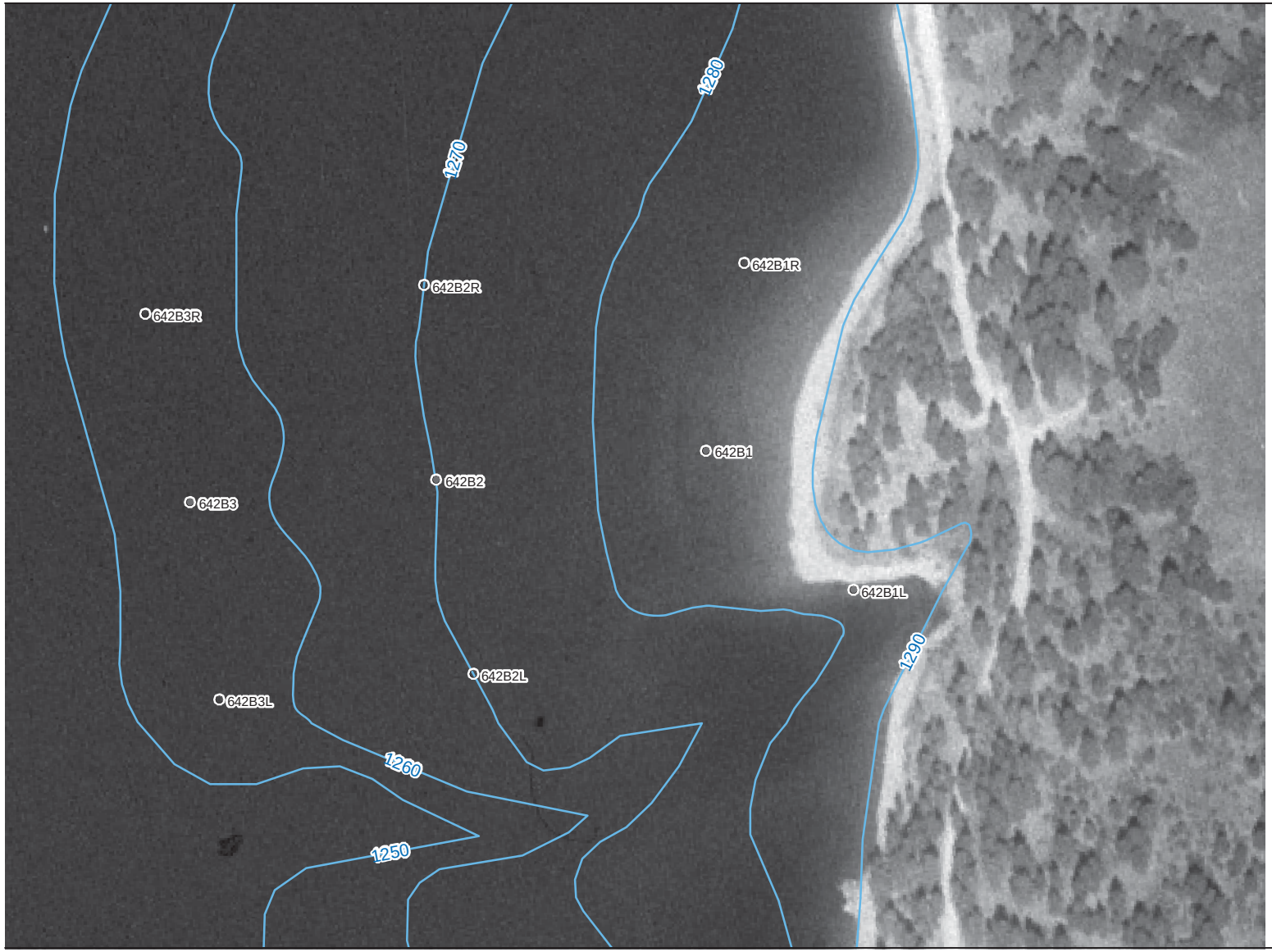

2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

N

0 100 200
Approximate scale in feet

FIGURE 2-24
Columbia Campground
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

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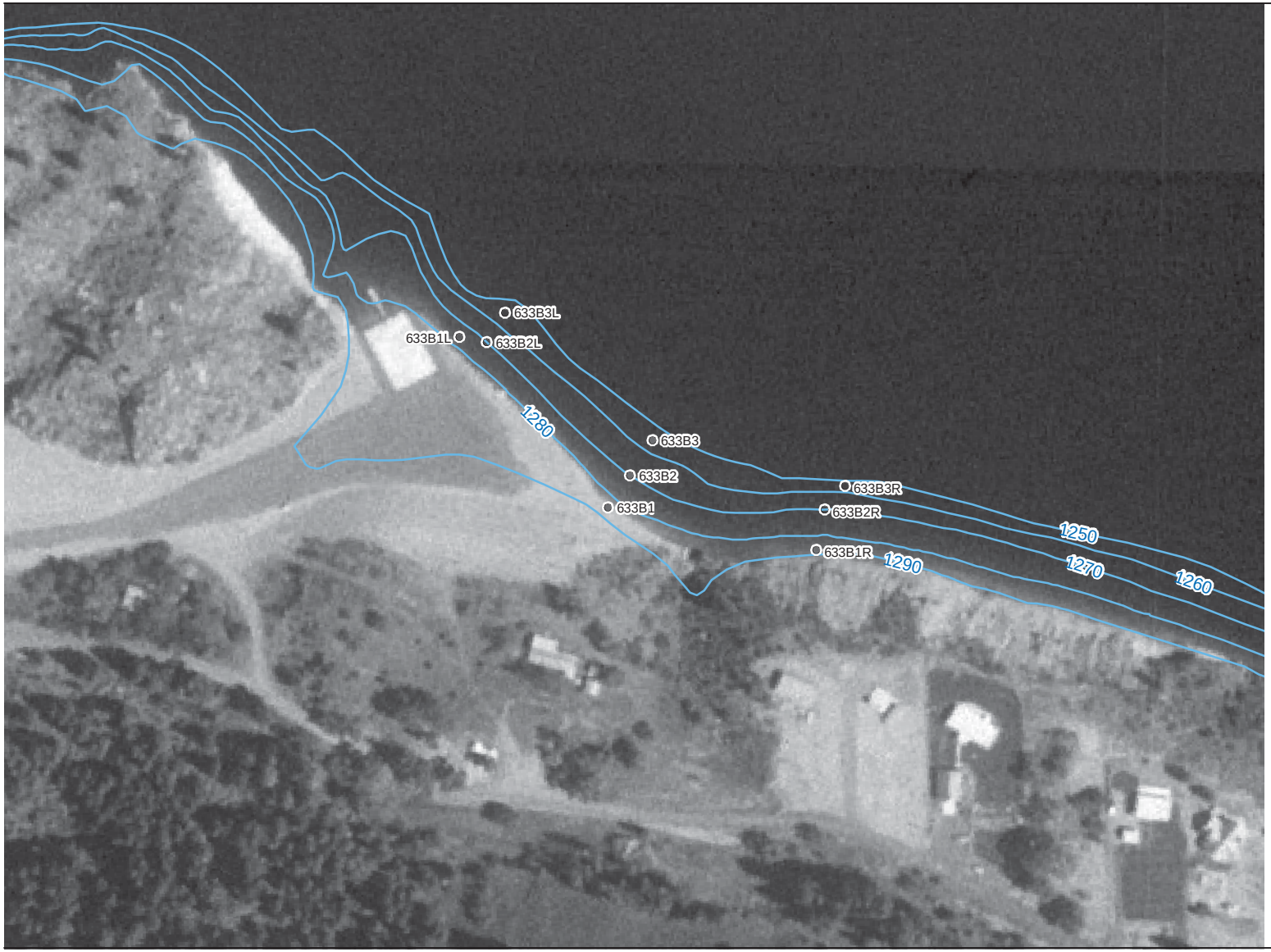

2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

N

0 100 200
Approximate scale in feet

FIGURE 2-25
Lincoln Mill Boat Ramp
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

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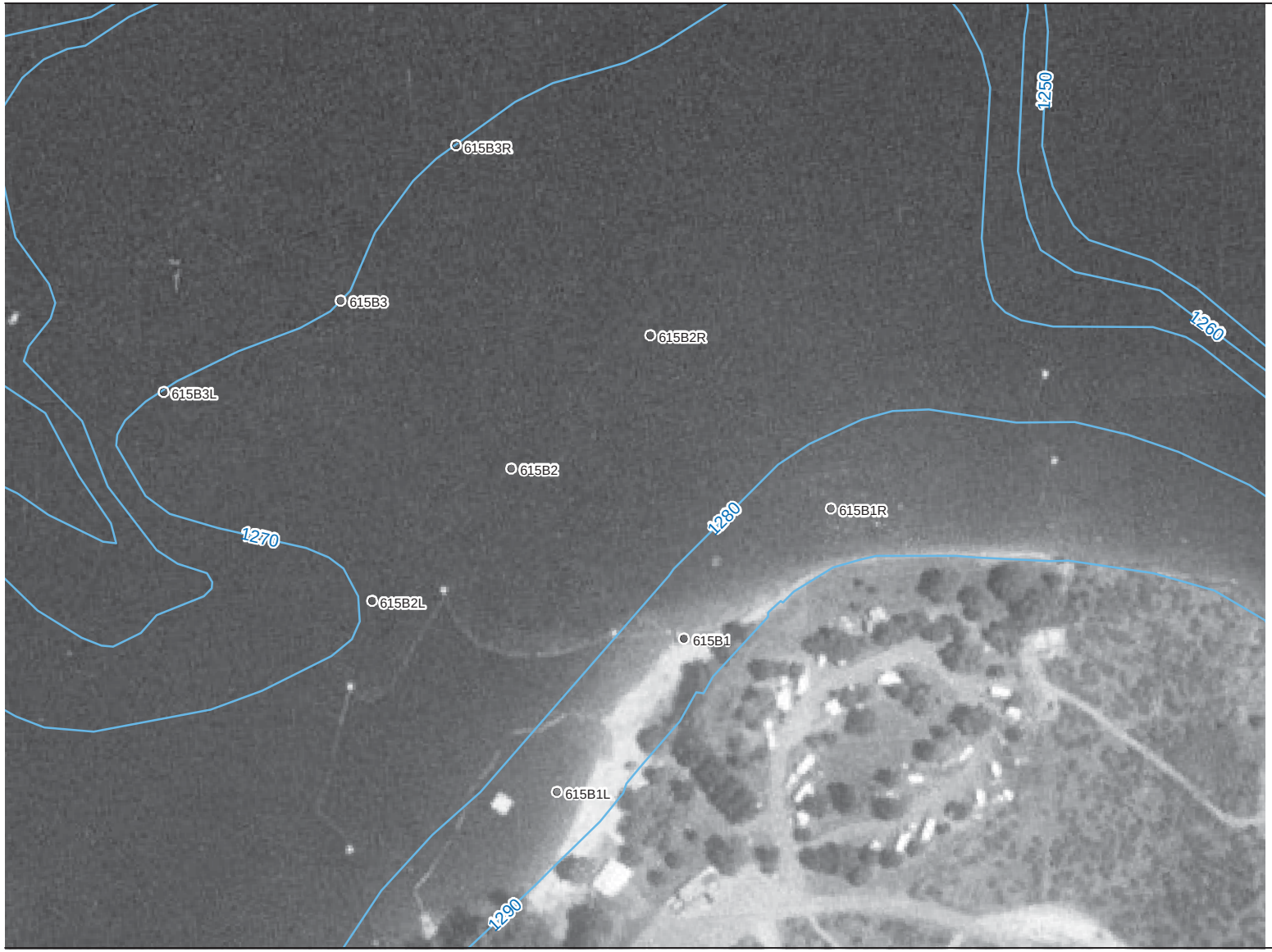


2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

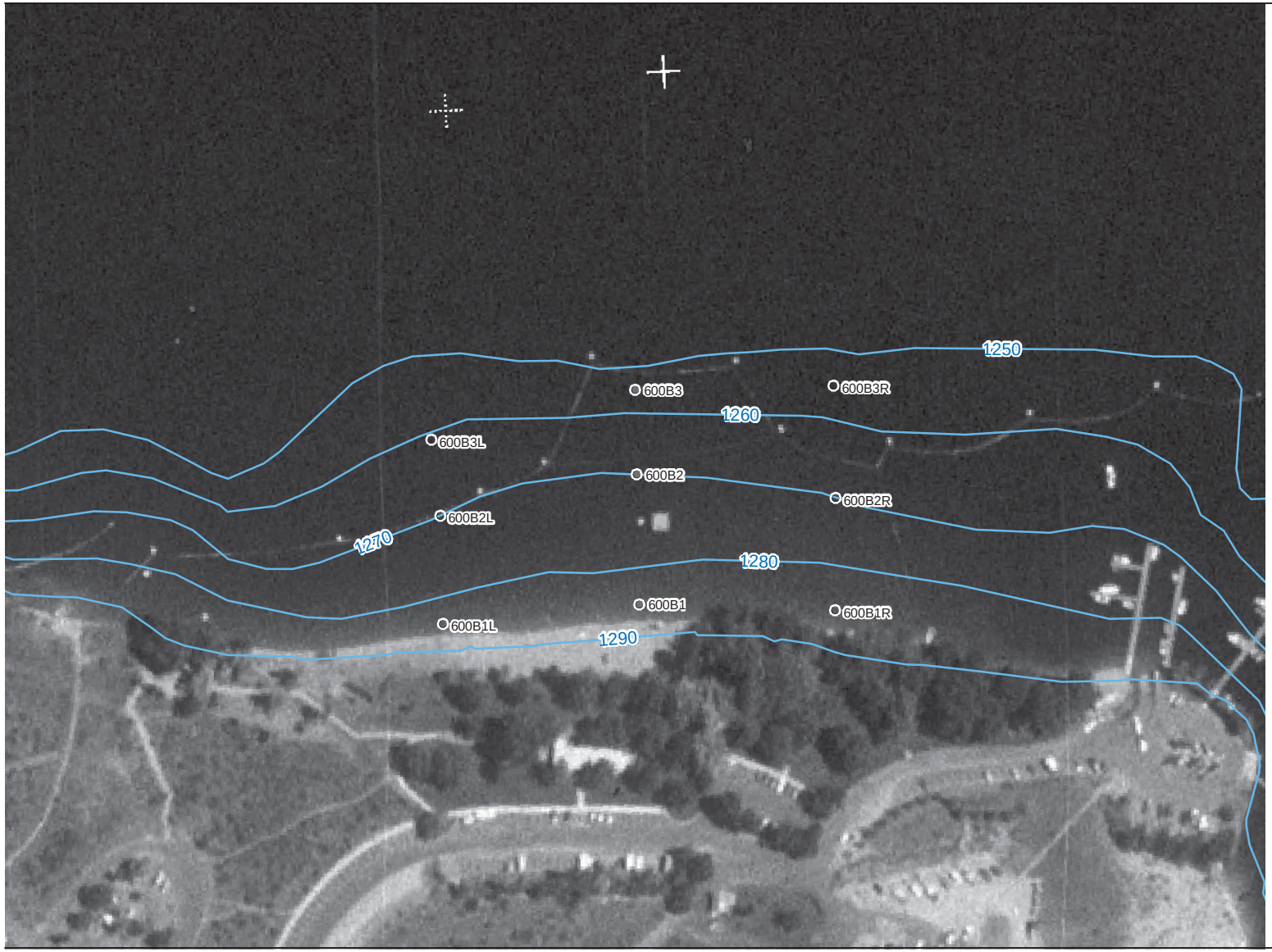
N

0 100 200
Approximate scale in feet

FIGURE 2-26
Kellers Ferry
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

File Path: \\bbh\proj\USEnvironmentalProte\315904\GIS\MapDocuments\Mxds\2005 Sediment Sampling\Phase 1 Sediment Data Eval\Phase 1 Sed Data Eval Beaches Figure 2-13 to 2-27.mxd, Date: June 23, 2006 9:32:19 AM



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

N

0 100 200
Approximate scale in feet

FIGURE 2-27
Spring Canyon Campground
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

File Path: \\bbh\proj\USEnvironmentalProte\315904\GIS\MapDocuments\Mxds\2005 Sediment Sampling\Phase 1 Sediment Data Eval\Phase 1 Sed Data Eval Beaches Figure 2-13 to 2-27.mxd, Date: June 23, 2006 9:32:19 AM