

ZIDELL WATERFRONT PROPERTY, PORTLAND, OREGON
SEDIMENT CAP BOUNDARY REPORT



Prepared for
ZRZ REALTY COMPANY
February 2, 2009
Project No. 8014.01.17

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TABLES



Table Notes
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Ambient levels are from the Sampling and Analysis Plan for Additional Sediment Assessment (MFA, 2007).
Background values are from the Guidance for Assessing Bioaccumulative Chemicals of Concern in Sediment (DEQ, 2007) and the Default Background Concentrations for Metals memorandum (DEQ, 2002).
Cleanup levels are from the Record of Decision (DEQ, 2005).
- = not applicable.
% = percent.
B = blank contamination.
bml = below mudline.
DEQ = Oregon Department of Environmental Quality.
italic font = Analyte not detected. Value shown is one-half the method reporting limit.
J = estimated value.
mg/kg = milligrams per kilogram.
µg/kg = micrograms per kilogram.
NA = not analyzed.
NV = no value.
OC = organic carbon.
PAH = polycyclic aromatic hydrocarbon.
PCB = polychlorinated biphenyl.
PEC = probable effect concentration from Ingersoll et al., 2000.
PECQ = probable effect concentration quotient calculated after Ingersoll et al., 2000.
ppb = parts per billion.
SMA = sediment management area.
U = not detected at method reporting limit.

**Table 2-1
Polychlorinated Biphenyls in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon**

Location	Sample ID	Lab ID	Date Collected	Depth (feet bml)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCBs
Cleanup Level					NV	NV	NV	NV	NV	2	2	NV	NV	676
WRS5	WRS5-0/0.5	K9708066-002	10/29/97	0/0.5	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA	100 U
WRS6	WRS6-0/0.5	K9708066-008	10/28/97	0/0.5	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA	100 U
WRS7	WRS7-0/0.5	K9708066-014	10/28/97	0/0.5	100 U	100 U	100 U	100 U	100 U	100 U	200	NA	NA	200
WRS8	WRS8-0/0.5	K9708066-020	10/28/97	0/0.5	100 U	100 U	100 U	100 U	100 U	100 U	200	NA	NA	200
WRS9	WRS9-0.0'/0.5'	K9807322-001	10/19/98	0.5	100 U	100 U	100 U	100 U	2300 UB	5000	2100	NA	NA	7100
WRS10	WRS10-0.0'/0.4'	K9807322-002	10/19/98	0.4	100 U	100 U	100 U	100 U	600 UB	1700	2600	NA	NA	4300
WRS11	WRS11-0.0'/0.7'	K9807322-004	10/19/98	0.7	100 U	100 U	100 U	100 U	100 U	200	100	NA	NA	300
WRS12	WRS12-0.0'/0.5'	K9807322-009	10/19/98	0.5	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA	100 U
WRS13	WRS13-0.0'/0.8'	K9807322-011	10/19/98	0.8	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA	100 U
WRS15	WRS15-0.1'/0.3'	K9807322-012	10/19/98	0.3	100 U	100 U	100 U	100 U	100 U	100 U	100	NA	NA	100
WRS17	WRS17-0.0'/0.2'	K9807322-014	10/20/98	0.2	100 U	100 U	100 U	100 U	100 U	700	400	NA	NA	1100
WRS18	WRS18-0.0'/0.2'	K9807322-015	10/20/98	0.2	100 U	100 U	100 U	100 U	100 U	300	400	NA	NA	700
WRS19	WRS19-0.0'/0.7'	K9807322-016	10/20/98	0.7	100 U	100 U	100 U	100 U	100 U	600	600	NA	NA	1200
WRS20	WRS20-0.0'/0.6'	K9807322-017	10/20/98	0.6	100 U	100 U	100 U	100 U	100 U	400	300	NA	NA	700
WRS21	WRS21-0.2'/0.8'	K9807322-021	10/20/98	0.8	100 U	100 U	100 U	100 U	100 U	200	100 U	NA	NA	200
WRS22	WRS22-1	92839-01	09/20/00	1	140 U	140 U	140 U	140 U	140 U	140 U	59	140 U	140 U	59 J
WRS23	WRS23-1	92991-02	09/27/00	1	110 U	110 U	110 U	110 U	110 U	110 U	110 U	NA	NA	110 U
WRS24	WRS24-1	92991-04	09/27/00	1	110 U	110 U	110 U	110 U	110 U	110 U	110 U	NA	NA	110 U
WRS25	WRS25-1	92927-01	09/23/00	1	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
WRS26	WRS26-1	92991-06	09/27/00	1	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA	100 U
	WRS26-4	92991-16	09/27/00	1	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA	100 U
WRS27	WRS27-1	92991-08	09/27/00	1	98 U	98 U	98 U	98 U	98 U	98 U	98 U	NA	NA	98 U
WRS28	WRS28-1	92927-06	09/23/00	1	160	160 U	160 U	160 U	160 U	160 U	160	160 U	160 U	160 U
WRS29	WRS29-1	92991-10	09/27/00	1	110	110 U	110 U	110 U	110 U	110 U	110 U	NA	NA	110 U
WRS30	WRS30-1	92991-12	09/27/00	1	110 U	110 U	110 U	110 U	110 U	110 U	110 U	NA	NA	110 U
WRS31	WRS31-1	92923-02	09/25/00	1	180 U	180 U	180 U	180 U	180 U	180 U	180 U	NA	NA	180 U
WRS32	WRS32-1	93030-02	09/28/00	1	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
WRS33	WRS33-1	92991-14	09/27/00	1	160 U	160 U	160 U	160 U	160 U	160 U	160 U	NA	NA	160 U
WRS34	WRS34-1	92923-04	09/25/00	1	200 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	200 U
WRS35	WRS35-1	93030-04	09/28/00	1	180 U	U	180 U	180 U	180 U	110	180 U	180 U	180 U	110 J

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Location	Sample ID	Lab ID	Date Collected	Depth (feet bml)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCBs
Cleanup Level					NV	NV	NV	NV	NV	2	2	NV	NV	676
WRS36	WRS36-1	93030-06	09/28/00	1	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
WRS37	WRS37-1	92923-06	09/25/00	1	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	NA	160 U
WRS38	WRS38-1	93085-06	09/29/00	1	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U
WRS39	WRS39-1	93085-08	09/29/00	1	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
WRS40	WRS40-1	92923-08	09/25/00	0.7	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	NA	150 U
WRS44	WRS44-1	93085-04	09/29/00	1	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
WRS45	WRS45-1	93085-02	09/29/00	1	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
WRS46	WRS46-1	92839-06	09/20/00	1	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
	WRS46-4	93085-10	09/29/00	1	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
WRS-47	WRS-47	0312061-01A	12/09/03	0.5	7.55 U	7.55 U	7.55 U	7.55 U	7.55 U	7.55 U	42.2	NA	NA	42.2
WRS-48	WRS-48	0312061-02A	12/09/03	0.5	8.11 U	8.11 U	8.11 U	8.11 U	8.11 U	8.11 U	68.7	NA	NA	68.7
WRS-49	WRS-49	0312061-03A	12/09/03	0.5	8.75 U	8.75 U	8.75 U	8.75 U	8.75 U	8.75 U	8.75 U	8.75 U	NA	8.75 U
WRS-50	WRS-50	0312061-04A	12/09/03	0.5	7.41 U	7.41 U	7.41 U	7.41 U	7.41 U	7.41 U	11.1	NA	NA	11.1

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Cleanup Level					NV	NV	NV	NV	NV	2	2	NV	NV	676
WRS-51	WRS-51	0312061-05A	12/09/03	0.5	8.03 U	8.03 U	8.03 U	8.03 U	8.03 U	8.03 U	8.03 U	NA	NA	8.03 U
WRS-52	WRS-52	0312061-06A	12/09/03	0.5	5.76 U	5.76 U	5.76 U	5.76 U	5.76 U	5.76 U	5.76 U	NA	NA	5.76 U
WRS-53	WRS-53	0312061-07A	12/10/03	0.5	6.25 U	6.25 U	6.25 U	6.25 U	6.25 U	6.25 U	6.25 U	57.7	NA	57.7
WRS-54	WRS-54	0312061-08A	12/10/03	0.5	8.03 U	8.03 U	8.03 U	8.03 U	8.03 U	8.03 U	8.03 U	97.8	NA	97.8
WRS-55	WRS-55	0709112-01A	09/17/07	0.5	1.24 U	1.24 U	1.24 U	1.24 U	1.24 U	1.24 U	1.24 U	7.52	NA	7.52
WRS-56	WRS-56	0709112-02A	09/17/07	0.5	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	8.67	5.95	NA	14.6
WRS-57	WRS-57	0709112-37A	09/19/07	0.5	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	40.5	23.7	NA	64.2
WRS-58	WRS-58	0709112-35A	09/19/07	0.5	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	NA	1.47 U
WRS-59	WRS-59	0709112-34A	09/19/07	0.5	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.87	4.2	NA	11.1
WRS-60	WRS-60	0709112-33A	09/19/07	0.5	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.27	1.12 U	NA	1.27
WRS-61	WRS-61	0709112-31A	09/19/07	0.5	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	3.25	2.21	NA	5.46
WRS-62	WRS-62	0709112-32A	09/19/07	0.5	1.27 U	1.27 U	1.27 U	1.27 U	1.27 U	1.27 U	1.27 U	1.27 U	NA	1.27 U
WRS-63	WRS-63	0709112-06A	09/17/07	0.5	1.66 U	1.66 U	1.66 U	1.66 U	1.66 U	1.66 U	107	97	NA	204
WRS-64	WRS-64	0709112-05A	09/17/07	0.5	1.27 U	1.27 U	1.27 U	1.27 U	1.27 U	1.27 U	10.5	13.6	NA	24.1
WRS-65	WRS-65	0709112-03A	09/17/07	0.5	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5.8	4.71	NA	10.5
	WRS-65-Dup	0709112-03A	09/17/07	0.5	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	1.21 U	3.22	3.41	NA	6.63
WRS-66	WRS-66	0709112-07A	09/17/07	0.5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	8.05	NA	8.05
WRS-67	WRS-67	0709112-09A	09/17/07	0.5	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	37.1	51.5	NA	88.6
WRS-68	WRS-68	0709112-08A	09/17/07	0.5	1.79 U	1.79 U	1.79 U	1.79 U	1.79 U	1.79 U	1.79 U	1.79 U	NA	1.79 U
WRS-69	WRS-69	0709112-12A	09/18/07	0.5	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	NA	2.4 U
WRS-70	WRS-70	0709112-13A	09/18/07	0.5	2.17 U	2.17 U	2.17 U	2.17 U	2.17 U	2.17 U	2.17 U	11.9 J	NA	11.9 J
	WRS-70-Dup	0709112-13A	09/18/07	0.5	2.19 U	2.19 U	2.19 U	2.19 U	2.19 U	2.19 U	47.8 J	104 J	NA	152 J
WRS-71	WRS-71	0709112-15A	09/18/07	0.5	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	26.7	14.3	NA	41
WRS-72	WRS-72	0709112-40A	09/19/07	0.5	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	21.7	16.9	NA	38.6
WRS-73	WRS-73	0709112-18A	09/18/07	0.5	2.01 U	2.01 U	2.01 U	2.01 U	2.01 U	2.01 U	2.01 U	4.5	NA	4.5
WRS-74	WRS-74	0709112-17A	09/18/07	0.5	1.95 U	1.95 U	1.95 U	1.95 U	1.95 U	1.95 U	1.95 U	4.93	NA	4.93
WRS-75	WRS-75	0709112-39A	09/19/07	0.5	1.19 U	1.19 U	1.19 U	1.19 U	1.19 U	1.19 U	2210	12900	NA	15110
WRS-76	WRS-76	0709112-38A	09/19/07	0.5	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	1.58 U	102	30.8	NA	133
WRS-77	WRS-77	0709112-19A	09/18/07	0.5	1.86 U	1.86 U	1.86 U	1.86 U	1.86 U	1.86 U	1.86 U	5.06	NA	5.06
WRS-78	WRS-78	0709112-20A	09/18/07	0.5	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U	29.8	22.8	NA	52.6

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Cleanup Level					NV	NV	NV	NV	NV	2	2	NV	NV	676
WRS-79	WRS-79	0709112-21A	09/18/07	0.5	1.96 U	1.96 U	1.96 U	1.96 U	1.96 U	1.96 U	6.39	NA	NA	6.39
WRS-80	WRS-80	0709112-22A	09/18/07	0.5	2.06 U	2.06 U	2.06 U	2.06 U	2.06 U	2.06 U	8.58	NA	NA	8.58
WRS-81	WRS-81	0709112-29A	09/18/07	0.5	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	237	84.8	NA	NA	322
WRS-82	WRS-82	0709112-28A	09/18/07	0.5	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U	122	72.7	NA	NA	195
WRS-83	WRS-83	0709112-24A	09/18/07	0.5	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U	10.4	NA	NA	10.4
WRS-84	WRS-84	0709112-23A	09/18/07	0.5	1.83 U	1.83 U	1.83 U	1.83 U	1.83 U	17.9	17.5	NA	NA	35.4
WRS-85	WRS-85	0709112-25A	09/18/07	0.5	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U	7.69	NA	NA	7.69
WRS-86	WRS-86	0709112-26A	09/18/07	0.5	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	104	55.7	NA	NA	160

Table 2-2
Butyltins in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Date Collected	Depth (feet bml)	Monobutyltin	Dibutyltin	Tetrabutyltin
Cleanup Level				NV	NV	NV
WRS5	WRS5-0/0.5	10/29/97	0/0.5	NA	NA	NA
WRS6	WRS6-0/0.5	10/28/97	0/0.5	NA	NA	NA
WRS7	WRS7-0/0.5	10/28/97	0/0.5	NA	NA	NA
WRS8	WRS8-0/0.5	10/28/97	0/0.5	NA	NA	NA
WRS9	WRS9-0.0'/0.5'	10/19/98	0.5	17 UB	6	3 U
WRS10	WRS10-0.0'/0.4'	10/19/98	0.4	4 UB	2	3 U
WRS11	WRS11-0.0'/0.7'	10/19/98	0.7	25	368	3 U
WRS12	WRS12-0.0'/0.5'	10/19/98	0.5	2	2	3 U
WRS13	WRS13-0.0'/0.8'	10/19/98	0.8	3	2	3 U
WRS15	WRS15-0.1'/0.3'	10/19/98	0.3	1140	244	15 U
WRS16	WRS16-0.0'/0.2'	10/19/98	0.2	2	4	3 U
WRS17	WRS17-0.0'/0.2'	10/20/98	0.2	140	95	3 U
WRS18	WRS18-0.0'/0.2'	10/20/98	0.2	8	33	3 U
WRS19	WRS19-0.0'/0.7'	10/20/98	0.7	5 UB	4	3 U
WRS20	WRS20-0.0'/0.6'	10/20/98	0.6	135	254	150 U
WRS21	WRS21-0.2'/0.8'	10/20/98	0.8	3	2	3 U
WRS22	WRS22-1	09/20/00	1	0.77 U	1 U	0.52 U
WRS23	WRS23-1	09/27/00	1	0.59 U	0.78 U	0.37 U
WRS24	WRS24-1	09/27/00	1	0.58 U	0.79 U	0.4 U
WRS25	WRS25-1	09/23/00	1	0.74 U	0.99 U	0.5 U
WRS26	WRS26-1	09/27/00	1	0.85	0.7 U	0.35 U
	WRS26-4	09/27/00	1	0.52 U	0.7 U	0.34 U
WRS27	WRS27-1	09/27/00	1	1.1	6.5	0.35 U
WRS28	WRS28-1	09/23/00	1	0.81	1.1 U	0.54 U
WRS29	WRS29-1	09/27/00	1	0.52 U	0.68 U	0.35 U
WRS30	WRS30-1	09/27/00	1	0.55 U	0.73 U	0.37 U
WRS31	WRS31-1	09/25/00	1	0.85 U	1.1 U	0.57 U
WRS32	WRS32-1	09/28/00	1	0.6 U	0.8 U	0.4 U
WRS33	WRS33-1	09/27/00	1	0.82 U	1.1 U	0.53 U
WRS34	WRS34-1	09/25/00	1	0.99 U	U	0.66 U
WRS35	WRS35-1	09/28/00	1	0.95 U	1.3 U	0.64 U
WRS36	WRS36-1	09/28/00	1	0.59 U	0.79 U	0.4 U
WRS37	WRS37-1	09/25/00	1	0.83 U	1.1 U	0.54 U
WRS38	WRS38-1	09/29/00	1	0.026 U	0.035 U	0.018 U
WRS39	WRS39-1	09/29/00	1	0.0013 U	0.0017 U	0.00088 U
WRS40	WRS40-1	09/25/00	0.7	0.79 U	1 U	0.52 U
WRS44	WRS44-1	09/29/00	1	0.0087 U	0.012 U	0.0058 U
WRS45	WRS45-1	09/29/00	1	0.014 U	0.018 U	0.009 U
WRS46	WRS46-1	09/20/00	1	0.65 U	0.89 U	0.43 U
	WRS46-4	09/29/00	1	0.72 U	0.96 U	0.48 U
WRS-47	WRS-47	12/09/03	0.5	NA	NA	0.19 U

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Location	Sample	Date Collected	Depth (feet bml)	Monobutyltin	Dibutyltin	Tetrabutyltin
Cleanup Level				NV	NV	NV
WRS-48	WRS-48	12/09/03	0.5	NA	NA	0.2 U
WRS-49	WRS-49	12/09/03	0.5	NA	NA	0.22 U
WRS-50	WRS-50	12/09/03	0.5	NA	NA	0.19 U
WRS-51	WRS-51	12/09/03	0.5	NA	NA	0.2 U
WRS-52	WRS-52	12/09/03	0.5	NA	NA	0.14 U
WRS-53	WRS-53	12/10/03	0.5	NA	NA	0.16 U
WRS-54	WRS-54	12/10/03	0.5	NA	NA	0.2 U
WRS-55	WRS-55	09/17/07	0.5	1.3 U	1.3 U	1.3 U
WRS-56	WRS-56	09/17/07	0.5	1.3 U	1.3 U	1.3 U
WRS-57	WRS-57	09/19/07	0.5	1.4 U	1.4 U	1.4 U
WRS-58	WRS-58	09/19/07	0.5	2.3 U	2.3 U	2.3 U
WRS-59	WRS-59	09/19/07	0.5	1.4 U	1.4 U	1.4 U
WRS-60	WRS-60	09/19/07	0.5	1.2 U	1.2 U	1.2 U
WRS-61	WRS-61	09/19/07	0.5	1.3 U	1.3 U	1.3 U
WRS-62	WRS-62	09/19/07	0.5	1.3 U	1.3 U	1.3 U
WRS-63	WRS-63	09/17/07	0.5	1.5 U	2.8	1.5 U
WRS-64	WRS-64	09/17/07	0.5	1.2 U	1.2 U	1.2 U
WRS-65	WRS-65	09/17/07	0.5	1.2 U	1.2 U	1.2 U
	WRS-65-Dup	09/17/07	0.5	1.2 U	1.2 U	1.2 U
WRS-66	WRS-66	09/17/07	0.5	2 U	2 U	2 U
WRS-67	WRS-67	09/17/07	0.5	1.8 U	1.8 U	1.8 U
WRS-68	WRS-68	09/17/07	0.5	1.8 U	1.8 U	1.8 U
WRS-69	WRS-69	09/18/07	0.5	2.4 U	2.4 U	2.4 U
WRS-70	WRS-70	09/18/07	0.5	2.2 U	2.2 U	2.2 U
	WRS-70-Dup	09/18/07	0.5	2.1 U	2.1 U	2.1 U
WRS-71	WRS-71	09/18/07	0.5	1.8 U	1.8 U	1.8 U
WRS-72	WRS-72	09/19/07	0.5	1.6 U	4.2	1.6 U
WRS-73	WRS-73	09/18/07	0.5	1.9 U	1.9 U	1.9 U
WRS-74	WRS-74	09/18/07	0.5	1.9 U	1.9 U	1.9 U
WRS-75	WRS-75	09/19/07	0.5	2.9	10	1.2 U
WRS-76	WRS-76	09/19/07	0.5	1.6 U	1.8	1.6 U
WRS-77	WRS-77	09/18/07	0.5	1.8 U	1.8 U	1.8 U
WRS-78	WRS-78	09/18/07	0.5	1.7 U	2.5	1.7 U
WRS-79	WRS-79	09/18/07	0.5	1.9 U	1.9 U	1.9 U
WRS-80	WRS-80	09/18/07	0.5	2.2	1.9 U	1.9 U
WRS-81	WRS-81	09/18/07	0.5	1.8 U	3.7	1.8 U
WRS-82	WRS-82	09/18/07	0.5	1.8 U	3.9	1.8 U
WRS-83	WRS-83	09/18/07	0.5	1.8 U	1.8 U	1.8 U
WRS-84	WRS-84	09/18/07	0.5	1.8 U	1.8 U	1.8 U
WRS-85	WRS-85	09/18/07	0.5	1.8 U	3.5	1.8 U
WRS-86	WRS-86	09/18/07	0.5	2.2	12	1.6 U

Table 2-2
Butyltins in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Date Collected	Depth (feet bml)	Tributyltin	Tributyltin OC-normalized
Cleanup Level				2.3	6,000
WRS5	WRS5-0/0.5	10/29/97	0/0.5	180	7,059
WRS6	WRS6-0/0.5	10/28/97	0/0.5	8	314
WRS7	WRS7-0/0.5	10/28/97	0/0.5	190	28,701
WRS8	WRS8-0/0.5	10/28/97	0/0.5	8	784
WRS9	WRS9-0.0'/0.5'	10/19/98	0.5	4	641
WRS10	WRS10-0.0'/0.4'	10/19/98	0.4	7	673
WRS11	WRS11-0.0'/0.7'	10/19/98	0.7	20	1,923
WRS12	WRS12-0.0'/0.5'	10/19/98	0.5	34	6,250
WRS13	WRS13-0.0'/0.8'	10/19/98	0.8	5	481
WRS15	WRS15-0.1'/0.3'	10/19/98	0.3	8	471
WRS16	WRS16-0.0'/0.2'	10/19/98	0.2	40	2,353
WRS17	WRS17-0.0'/0.2'	10/20/98	0.2	6	894
WRS18	WRS18-0.0'/0.2'	10/20/98	0.2	2	298
WRS19	WRS19-0.0'/0.7'	10/20/98	0.7	4	596
WRS20	WRS20-0.0'/0.6'	10/20/98	0.6	1990	296,572
WRS21	WRS21-0.2'/0.8'	10/20/98	0.8	3	447
WRS22	WRS22-1	09/20/00	1	0.77 U	64 U
WRS23	WRS23-1	09/27/00	1	0.59 U	1,595 U
WRS24	WRS24-1	09/27/00	1	0.58 U	1,611 U
WRS25	WRS25-1	09/23/00	1	0.74 U	75 U
WRS26	WRS26-1	09/27/00	1	0.53 U	482 U
	WRS26-4	09/27/00	1	0.52 U	605 U
WRS27	WRS27-1	09/27/00	1	0.52 U	693 U
WRS28	WRS28-1	09/23/00	1	0.81 U	45 U
WRS29	WRS29-1	09/27/00	1	0.52 U	839 U
WRS30	WRS30-1	09/27/00	1	0.55 U	663 U
WRS31	WRS31-1	09/25/00	1	0.85 U	61 U
WRS32	WRS32-1	09/28/00	1	0.6 U	150 U
WRS33	WRS33-1	09/27/00	1	0.82 U	171 U
WRS34	WRS34-1	09/25/00	1	0.99 U	58 U
WRS35	WRS35-1	09/28/00	1	0.95 U	68 U
WRS36	WRS36-1	09/28/00	1	0.59 U	268 U
WRS37	WRS37-1	09/25/00	1	0.83 U	52 U
WRS38	WRS38-1	09/29/00	1	0.026 U	1 U
WRS39	WRS39-1	09/29/00	1	0.0013 U	1 U
WRS40	WRS40-1	09/25/00	0.7	0.79 U	79 U
WRS44	WRS44-1	09/29/00	1	0.0087 U	1 U
WRS45	WRS45-1	09/29/00	1	0.014 U	1 U
WRS46	WRS46-1	09/20/00	1	0.65 U	43 U
	WRS46-4	09/29/00	1	0.72 U	313 U
WRS-47	WRS-47	12/09/03	0.5	0.19 U	6 U

Table 2-2
Butyltins in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Date Collected	Depth (feet bml)	Tributyltin	Tributyltin OC-normalized
Cleanup Level				2.3	6,000
WRS-48	WRS-48	12/09/03	0.5	0.2 U	7 U
WRS-49	WRS-49	12/09/03	0.5	0.22 U	11 U
WRS-50	WRS-50	12/09/03	0.5	0.19 U	17 U
WRS-51	WRS-51	12/09/03	0.5	0.2 U	14 U
WRS-52	WRS-52	12/09/03	0.5	0.14 U	13 U
WRS-53	WRS-53	12/10/03	0.5	0.16 U	26 U
WRS-54	WRS-54	12/10/03	0.5	0.2 U	10 U
WRS-55	WRS-55	09/17/07	0.5	1.3 U	302 U
WRS-56	WRS-56	09/17/07	0.5	1.3 U	380 U
WRS-57	WRS-57	09/19/07	0.5	1.4 U	236 U
WRS-58	WRS-58	09/19/07	0.5	2.3 U	344 U
WRS-59	WRS-59	09/19/07	0.5	1.4 U	170 U
WRS-60	WRS-60	09/19/07	0.5	1.2 U	87 U
WRS-61	WRS-61	09/19/07	0.5	1.3 U	83 U
WRS-62	WRS-62	09/19/07	0.5	1.3 U	120 U
WRS-63	WRS-63	09/17/07	0.5	3.4	514
WRS-64	WRS-64	09/17/07	0.5	1.2 U	117 U
WRS-65	WRS-65	09/17/07	0.5	1.2 U	92 U
	WRS-65-Dup	09/17/07	0.5	1.2 U	146 U
WRS-66	WRS-66	09/17/07	0.5	2 U	248 U
WRS-67	WRS-67	09/17/07	0.5	1.8 U	212 U
WRS-68	WRS-68	09/17/07	0.5	1.8 U	218 U
WRS-69	WRS-69	09/18/07	0.5	2.4 U	94 U
WRS-70	WRS-70	09/18/07	0.5	2.2 U	95 U
	WRS-70-Dup	09/18/07	0.5	2.1 U	113 U
WRS-71	WRS-71	09/18/07	0.5	1.8 U	165 U
WRS-72	WRS-72	09/19/07	0.5	12	1,154
WRS-73	WRS-73	09/18/07	0.5	1.9 U	157 U
WRS-74	WRS-74	09/18/07	0.5	1.9 U	140 U
WRS-75	WRS-75	09/19/07	0.5	39	17,031
WRS-76	WRS-76	09/19/07	0.5	7.9	1,452
WRS-77	WRS-77	09/18/07	0.5	1.8 U	271 U
WRS-78	WRS-78	09/18/07	0.5	3.9	232
WRS-79	WRS-79	09/18/07	0.5	1.9 U	146 U
WRS-80	WRS-80	09/18/07	0.5	1.9 U	239 U
WRS-81	WRS-81	09/18/07	0.5	1.8 U	344 U
WRS-82	WRS-82	09/18/07	0.5	6	1,258
WRS-83	WRS-83	09/18/07	0.5	1.8 U	258 U
WRS-84	WRS-84	09/18/07	0.5	1.8 U	178 U
WRS-85	WRS-85	09/18/07	0.5	5.5	751
WRS-86	WRS-86	09/18/07	0.5	47	4,476

Table 2-3
Polycyclic Aromatic Hydrocarbons in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Sampling Date	Depth (feet bml)	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)-anthracene	Benzo(a)-pyrene
Cleanup Level				NV	NV	NV	NV	211	21
WRS5	WRS5-0/0.5	10/29/97	0/0.5	5 U	5 U	5 U	5 U	5 U	5
WRS6	WRS6-0/0.5	10/28/97	0/0.5	5 U	5 U	5 U	5 U	8	8
WRS7	WRS7-0/0.5	10/28/97	0/0.5	6	5 U	5 U	11	43	49
WRS8	WRS8-0/0.5	10/28/97	0/0.5	12	5 U	5 U	5 U	17	21
WRS9	WRS9-0.0'/0.5'	10/19/98	0.5	23	48	22	79	340	350
WRS10	WRS10-0.0'/0.4'	10/19/98	0.4	29	11	5 U	21	80	70
WRS11	WRS11-0.0'/0.7'	10/19/98	0.7	5 U	11	5 U	12	38	42
WRS12	WRS12-0.0'/0.5'	10/19/98	0.5	7	29	5 U	10	27	18
WRS13	WRS13-0.0'/0.8'	10/19/98	0.8	5	5 U	5 U	5 U	8	9
WRS15	WRS15-0.1'/0.3'	10/19/98	0.3	110	240	94	340	2400	1300
WRS16	WRS16-0.0'/0.2'	10/19/98	0.2	200	1100	130	460	3000	1200
WRS17	WRS17-0.0'/0.2'	10/20/98	0.2	5 U	5 U	5 U	5 U	22	29
WRS18	WRS18-0.0'/0.2'	10/20/98	0.2	5	14	9	22	150	200
WRS19	WRS19-0.0'/0.7'	10/20/98	0.7	76	12	9	53	140	210
WRS20	WRS20-0.0'/0.6'	10/20/98	0.6	8	21	5 U	46	540	590
WRS21	WRS21-0.2'/0.8'	10/20/98	0.8	6	6	5	7	43	60
WRS22	WRS22-1	09/20/00	1	5 U	5 U	5 U	5.6	10	12
WRS23	WRS23-1	09/27/00	1	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
WRS24	WRS24-1	09/27/00	1	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
WRS25	WRS25-1	09/23/00	1	7	5 U	15	6.5	19	25
WRS26	WRS26-1	09/27/00	1	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	2.9
	WRS26-4	09/27/00	1	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
WRS27	WRS27-1	09/27/00	1	3.6	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
WRS28	WRS28-1	09/23/00	1	5.4	5.4 U	5.4 U	5.4 U	14	16
WRS29	WRS29-1	09/27/00	1	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
WRS30	WRS30-1	09/27/00	1	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
WRS31	WRS31-1	09/25/00	1	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U
WRS32	WRS32-1	09/28/00	1	4 U	4 U	4 U	4 U	5.2	11

Table 2-3
Polycyclic Aromatic Hydrocarbons in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Sampling Date	Depth (feet bml)	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)-anthracene	Benzo(a)-pyrene
Cleanup Level				NV	NV	NV	NV	211	21
WRS33	WRS33-1	09/27/00	1	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U
WRS34	WRS34-1	09/25/00	1	6.3 U	U	6.3 U	6.3 U	13	16
WRS35	WRS35-1	09/28/00	1	6.3 U	6.3 U	6.3 U	6.3 U	7.4	6.3 U
WRS36	WRS36-1	09/28/00	1	4 U	4 U	4 U	4 U	4 U	4 U
WRS37	WRS37-1	09/25/00	1	77	120	24	450	500	190
WRS38	WRS38-1	09/29/00	1	0.18 U	0.18 U	0.18 U	0.18 U	0.3	0.3
WRS39	WRS39-1	09/29/00	1	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.011	0.0097
WRS40	WRS40-1	09/25/00	0.7	5.2 U	5.2 U	5.2 U	5.2 U	14	15
WRS44	WRS44-1	09/29/00	1	0.057 U	0.057 U	0.057 U	0.057 U	0.12	0.17
WRS45	WRS45-1	09/29/00	1	0.094 U	0.094 U	0.094 U	0.094 U	0.21	0.22
WRS46	WRS46-1	09/20/00	1	35	4.8 U	4.8 U	14	48	42
	WRS46-4	09/29/00	1	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
WRS-47	WRS-47	12/09/03	0.5	NA	12.6 U	12.6 U	12.6 U	30.2	36.5
WRS-48	WRS-48	12/09/03	0.5	NA	13.5 U	13.5 U	13.5 U	52.7	55.4
WRS-49	WRS-49	12/09/03	0.5	NA	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U
WRS-50	WRS-50	12/09/03	0.5	NA	12.4 U	12.4 U	48.1	223	215
WRS-51	WRS-51	12/09/03	0.5	NA	13.4 U	13.4 U	13.4 U	13.4 U	13.4 U
WRS-52	WRS-52	12/09/03	0.5	NA	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
WRS-53	WRS-53	12/10/03	0.5	NA	10.4 U	10.4 U	10.4 U	25	38.5
WRS-54	WRS-54	12/10/03	0.5	NA	13.4 U	13.4 U	13.4 U	64.3	85.7
WRS-55	WRS-55	9/17/2007	0.5	NA	8.29 U	8.29 U	8.29 U	8.29 U	14.1
WRS-56	WRS-56	9/17/2007	0.5	NA	7.99 U	7.99 U	7.99 U	7.99 U	7.99 U
WRS-57	WRS-57	9/19/2007	0.5	NA	10.1 U	10.1 U	10.1 U	10.1 U	10.1
WRS-58	WRS-58	9/19/2007	0.5	NA	9.79 U	9.79 U	9.79 U	9.79 U	9.79 U
WRS-59	WRS-59	9/19/2007	0.5	NA	8.03 U	8.03 U	8.03 U	8.03 U	8.03 U
WRS-60	WRS-60	9/19/2007	0.5	NA	7.49 U	7.49 U	7.49 U	7.49 U	7.49 U
WRS-61	WRS-61	9/19/2007	0.5	NA	8 U	8 U	8 U	8 U	8 U
WRS-62	WRS-62	9/19/2007	0.5	NA	8.49 U	8.49 U	8.49 U	8.49 U	8.49 U
WRS-63	WRS-63	9/17/2007	0.5	NA	11.1 U	11.1 U	11.1 U	28.8	33.2

Table 2-3
Polycyclic Aromatic Hydrocarbons in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Sampling Date	Depth (feet bml)	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)-anthracene	Benzo(a)-pyrene
Cleanup Level				NV	NV	NV	NV	211	21
WRS-64	WRS-64	9/17/2007	0.5	NA	8.48 U	8.48 U	8.48 U	8.48 U	8.48 U
WRS-65	WRS-65	9/17/2007	0.5	NA	8.01 U	8.01 U	8.01 U	8.01 U	8.01 U
	WRS-65-Dup	9/17/2007	0.5	NA	8.05 U	8.05 U	8.05 U	8.05 U	8.05 U
WRS-66	WRS-66	9/17/2007	0.5	NA	13.3 U	13.3 U	13.3 U	13.3	13.3 U
WRS-67	WRS-67	9/17/2007	0.5	NA	11.6 U	11.6 U	11.6 U	20.9	23.2
WRS-68	WRS-68	9/17/2007	0.5	NA	12 U	12 U	12 U	12 U	12 U
WRS-69	WRS-69	9/18/2007	0.5	NA	16 U	16 U	16 U	16 U	16 U
WRS-70	WRS-70	9/18/2007	0.5	NA	14.5 U	14.5 U	14.5 U	14.5 U	14.5 U
	WRS-70-Dup	9/18/2007	0.5	NA	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U
WRS-71	WRS-71	9/18/2007	0.5	NA	12 U	12 U	12 U	12	13.2
WRS-72	WRS-72	9/19/2007	0.5	NA	123	22.1	106	250	164
WRS-73	WRS-73	9/18/2007	0.5	NA	13.4 U	13.4 U	13.4 U	16.1	13.4 U
WRS-74	WRS-74	9/18/2007	0.5	NA	13 U	13 U	13 U	13 U	13 U
WRS-75	WRS-75	9/19/2007	0.5	NA	75.5	31.8	112	375	419
WRS-76	WRS-76	9/19/2007	0.5	NA	10.6 U	14.8	11.6	65.4	72.8
WRS-77	WRS-77	9/18/2007	0.5	NA	12.4 U	12.4 U	12.4 U	12.4 U	12.4 U
WRS-78	WRS-78	9/18/2007	0.5	NA	11 U	16.4	39.5	179	164
WRS-79	WRS-79	9/18/2007	0.5	NA	13.1 U	13.1 U	13.1 U	13.1 U	13.1 U
WRS-80	WRS-80	9/18/2007	0.5	NA	13.8 U	13.8 U	13.8 U	31.6	34.4
WRS-81	WRS-81	9/18/2007	0.5	NA	15.2	15.2	46.8	160	164
WRS-82	WRS-82	9/18/2007	0.5	NA	12.9 U	12.9 U	18.1	111	103
WRS-83	WRS-83	9/18/2007	0.5	NA	12.3 U	12.3 U	12.3 U	35.5	36.8
WRS-84	WRS-84	9/18/2007	0.5	NA	12.2 U	12.2 U	12.2 U	12.2	12.2 U
WRS-85	WRS-85	9/18/2007	0.5	NA	12.3 U	12.3 U	12.3 U	13.6	14.8
WRS-86	WRS-86	9/18/2007	0.5	NA	11.7 U	11.7 U	14	46.8	48

Table 2-3
Polycyclic Aromatic Hydrocarbons in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Sampling Date	Depth (feet bml)	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluoranthene
Cleanup Level				211	NV	2106	21062	21	NV
WRS5	WRS5-0/0.5	10/29/97	0/0.5	7	7	5 U	7	5 U	11
WRS6	WRS6-0/0.5	10/28/97	0/0.5	9	10	9	13	5 U	19
WRS7	WRS7-0/0.5	10/28/97	0/0.5	56	41	52	60	8	90
WRS8	WRS8-0/0.5	10/28/97	0/0.5	23	20	19	29	5 U	38
WRS9	WRS9-0.0'/0.5'	10/19/98	0.5	350	370	290	460	88	500
WRS10	WRS10-0.0'/0.4'	10/19/98	0.4	79	85	67	98	20	150
WRS11	WRS11-0.0'/0.7'	10/19/98	0.7	43	57	35	69	11	76
WRS12	WRS12-0.0'/0.5'	10/19/98	0.5	22	19	20	32	5 U	73
WRS13	WRS13-0.0'/0.8'	10/19/98	0.8	9	16	7	16	5 U	21
WRS15	WRS15-0.1'/0.3'	10/19/98	0.3	1700	460	1100	2600	180	5300
WRS16	WRS16-0.0'/0.2'	10/19/98	0.2	1700	470	1500	3300	190	4000
WRS17	WRS17-0.0'/0.2'	10/20/98	0.2	44	48	30	46	9	26
WRS18	WRS18-0.0'/0.2'	10/20/98	0.2	150	210	120	220	26	270
WRS19	WRS19-0.0'/0.7'	10/20/98	0.7	200	190	190	220	48	250
WRS20	WRS20-0.0'/0.6'	10/20/98	0.6	570	340	520	620	83	660
WRS21	WRS21-0.2'/0.8'	10/20/98	0.8	58	47	44	83	11	89
WRS22	WRS22-1	09/20/00	1	18	13	12	13	5 U	23
WRS23	WRS23-1	09/27/00	1	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
WRS24	WRS24-1	09/27/00	1	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
WRS25	WRS25-1	09/23/00	1	24	24	8	15	5 U	30
WRS26	WRS26-1	09/27/00	1	3.6 U	2.9	3.6 U	3.6 U	2.9	3.6 U
	WRS26-4	09/27/00	1	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
WRS27	WRS27-1	09/27/00	1	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
WRS28	WRS28-1	09/23/00	1	17	5.4 U	7.6	16	5.4 U	23
WRS29	WRS29-1	09/27/00	1	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
WRS30	WRS30-1	09/27/00	1	2.2	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
WRS31	WRS31-1	09/25/00	1	5.9 U	5.9 U	7.6	5.9 U	5.9 U	8.1
WRS32	WRS32-1	09/28/00	1	18	7.6	8.4	12	4 U	13

Table 2-3
Polycyclic Aromatic Hydrocarbons in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Sampling Date	Depth (feet bml)	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluoranthene
Cleanup Level				211	NV	2106	21062	21	NV
WRS33	WRS33-1	09/27/00	1	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U
WRS34	WRS34-1	09/25/00	1	19	17	14	6.3 U	7	19
WRS35	WRS35-1	09/28/00	1	17	14	15	13	6.3 U	18
WRS36	WRS36-1	09/28/00	1	4 U	4 U	4 U	4	4 U	4 U
WRS37	WRS37-1	09/25/00	1	260	72	120	430	19	1800
WRS38	WRS38-1	09/29/00	1	0.49	0.18 U	0.18 U	0.3	0.18 U	0.41
WRS39	WRS39-1	09/29/00	1	0.013	0.015	0.0097	0.015	0.0088 U	0.0088 U
WRS40	WRS40-1	09/25/00	0.7	19	11	11	16	5.2 U	30
WRS44	WRS44-1	09/29/00	1	0.32	0.12	0.11	0.13	0.057 U	0.31
WRS45	WRS45-1	09/29/00	1	0.29	0.22	0.12	0.29	0.094 U	0.38
WRS46	WRS46-1	09/20/00	1	35	4.8 U	17	56	4.8 U	69
	WRS46-4	09/29/00	1	0.012	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
WRS-47	WRS-47	12/09/03	0.5	47.8	23.9	16.4	30.2	12.6 U	56.6
WRS-48	WRS-48	12/09/03	0.5	71.7	25.7	24.3	52.7	13.5 U	100
WRS-49	WRS-49	12/09/03	0.5	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	20.4
WRS-50	WRS-50	12/09/03	0.5	283	84	101	175	38.3	415
WRS-51	WRS-51	12/09/03	0.5	13.4 U	13.4 U	13.4 U	13.4 U	13.4 U	13.4 U
WRS-52	WRS-52	12/09/03	0.5	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
WRS-53	WRS-53	12/10/03	0.5	39.6	25	15.6	26	10.4 U	54.2
WRS-54	WRS-54	12/10/03	0.5	104	52.2	34.8	62.9	17.4	102
WRS-55	WRS-55	9/17/2007	0.5	9.94	14.1	9.94	14.9	8.29 U	8.29 U
WRS-56	WRS-56	9/17/2007	0.5	7.99 U	7.99 U	7.99 U	7.99 U	7.99 U	7.99 U
WRS-57	WRS-57	9/19/2007	0.5	10.1 U	10.1 U	10.1 U	10.1 U	10.1 U	14.2
WRS-58	WRS-58	9/19/2007	0.5	9.79 U	9.79 U	9.79 U	9.79 U	9.79 U	9.79 U
WRS-59	WRS-59	9/19/2007	0.5	8.03 U	8.03 U	8.03 U	8.03 U	8.03 U	8.03 U
WRS-60	WRS-60	9/19/2007	0.5	7.49 U	7.49 U	7.49 U	7.49 U	7.49 U	7.49 U
WRS-61	WRS-61	9/19/2007	0.5	8 U	8 U	8 U	8 U	8 U	8 U
WRS-62	WRS-62	9/19/2007	0.5	8.49 U	8.49 U	8.49 U	8.49 U	8.49 U	8.49 U
WRS-63	WRS-63	9/17/2007	0.5	27.7	22.1	23.2	36.5	11.1 U	74.2

Table 2-3
Polycyclic Aromatic Hydrocarbons in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Sampling Date	Depth (feet bml)	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluoranthene
Cleanup Level				211	NV	2106	21062	21	NV
WRS-64	WRS-64	9/17/2007	0.5	8.48 U	8.48 U	8.48 U	8.48 U	8.48 U	8.48 U
WRS-65	WRS-65	9/17/2007	0.5	8.01 U	8.01 U	8.01 U	8.01 U	8.01 U	8.01 U
	WRS-65-Dup	9/17/2007	0.5	8.05 U	8.05 U	8.05 U	8.05 U	8.05 U	8.05 U
WRS-66	WRS-66	9/17/2007	0.5	13.3 U	13.3 U	13.3 U	20	13.3 U	16
WRS-67	WRS-67	9/17/2007	0.5	18.5	12.7	19.7	24.3	11.6 U	38.2
WRS-68	WRS-68	9/17/2007	0.5	12 U	12 U	12 U	12 U	12 U	15.5
WRS-69	WRS-69	9/18/2007	0.5	16 U	16 U	16 U	16 U	16 U	17.6
WRS-70	WRS-70	9/18/2007	0.5	14.5 U	14.5 U	14.5 U	14.5 U	14.5 U	15.9
	WRS-70-Dup	9/18/2007	0.5	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U
WRS-71	WRS-71	9/18/2007	0.5	12	12 U	12 U	15.6	12 U	18
WRS-72	WRS-72	9/19/2007	0.5	169	88.2	178	416	28.1	1590
WRS-73	WRS-73	9/18/2007	0.5	13.4 U	13.4 U	13.4 U	13.4 U	13.4 U	13.4 U
WRS-74	WRS-74	9/18/2007	0.5	13 U	13 U	13 U	13 U	13 U	18.2
WRS-75	WRS-75	9/19/2007	0.5	374	199	356	508	62.8	880
WRS-76	WRS-76	9/19/2007	0.5	49.6	44.3	50.6	64.3	11.6	121
WRS-77	WRS-77	9/18/2007	0.5	12.4 U	12.4 U	12.4 U	12.4 U	12.4 U	13.6
WRS-78	WRS-78	9/18/2007	0.5	103	94.3	93.2	207	25.2	345
WRS-79	WRS-79	9/18/2007	0.5	13.1 U	13.1 U	13.1 U	13.1 U	13.1 U	36.7
WRS-80	WRS-80	9/18/2007	0.5	33	24.7	28.9	38.5	13.8 U	78.4
WRS-81	WRS-81	9/18/2007	0.5	136	90.9	123	182	27.5	383
WRS-82	WRS-82	9/18/2007	0.5	108	72.2	104	138	21.9	264
WRS-83	WRS-83	9/18/2007	0.5	31.9	25.7	28.2	41.7	12.3 U	79.7
WRS-84	WRS-84	9/18/2007	0.5	12.2 U	12.2 U	12.2 U	14.7	12.2 U	20.8
WRS-85	WRS-85	9/18/2007	0.5	12.3 U	12.3 U	12.3 U	16	12.3 U	30.8
WRS-86	WRS-86	9/18/2007	0.5	42.1	31.6	38.6	53.8	11.7 U	113

Table 2-3
Polycyclic Aromatic Hydrocarbons in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Sampling Date	Depth (feet bml)	Fluorene	Indeno(1,2,3-cd)-pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Cleanup Level				NV	211	NV	NV	NV	22800
WRS5	WRS5-0/0.5	10/29/97	0/0.5	5 U	5 U	5 U	7	12	56
WRS6	WRS6-0/0.5	10/28/97	0/0.5	5 U	8	5 U	9	19	112
WRS7	WRS7-0/0.5	10/28/97	0/0.5	6	35	11	60	106	634
WRS8	WRS8-0/0.5	10/28/97	0/0.5	5 U	15	9	27	46	276
WRS9	WRS9-0.0'/0.5'	10/19/98	0.5	69	480	21	330	520	4340
WRS10	WRS10-0.0'/0.4'	10/19/98	0.4	7	100	16	120	120	1073
WRS11	WRS11-0.0'/0.7'	10/19/98	0.7	15	57	5	56	97	624
WRS12	WRS12-0.0'/0.5'	10/19/98	0.5	20	24	5	65	69	440
WRS13	WRS13-0.0'/0.8'	10/19/98	0.8	5 U	12	6	17	22	148
WRS15	WRS15-0.1'/0.3'	10/19/98	0.3	220	630	110	1900	6500	25184
WRS16	WRS16-0.0'/0.2'	10/19/98	0.2	530	630	210	1700	3500	23820
WRS17	WRS17-0.0'/0.2'	10/20/98	0.2	5	44	5 U	13	38	354
WRS18	WRS18-0.0'/0.2'	10/20/98	0.2	17	240	6	130	380	2169
WRS19	WRS19-0.0'/0.7'	10/20/98	0.7	21	240	35	170	320	2384
WRS20	WRS20-0.0'/0.6'	10/20/98	0.6	18	530	8	210	620	5384
WRS21	WRS21-0.2'/0.8'	10/20/98	0.8	6	55	7	52	110	689
WRS22	WRS22-1	09/20/00	1	5 U	13	5 U	13	23	155.6
WRS23	WRS23-1	09/27/00	1	3.7 U	3.7 U	3.7 U	3.7 U	1.9	1.9
WRS24	WRS24-1	09/27/00	1	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
WRS25	WRS25-1	09/23/00	1	6.5	20	37	30	43	310
WRS26	WRS26-1	09/27/00	1	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	8.7
	WRS26-4	09/27/00	1	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
WRS27	WRS27-1	09/27/00	1	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
WRS28	WRS28-1	09/23/00	1	5.4 U	12	5.4 U	14	27	146.6
WRS29	WRS29-1	09/27/00	1	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
WRS30	WRS30-1	09/27/00	1	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	2.2
WRS31	WRS31-1	09/25/00	1	5.9 U	5.9 U	5.9 U	5.9 U	8.1	23.8
WRS32	WRS32-1	09/28/00	1	4 U	4 U	4 U	6.4	9.2	90.8

Table 2-3
Polycyclic Aromatic Hydrocarbons in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Sampling Date	Depth (feet bml)	Fluorene	Indeno(1,2,3-cd)-pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Cleanup Level				NV	211	NV	NV	NV	22800
WRS33	WRS33-1	09/27/00	1	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U
WRS34	WRS34-1	09/25/00	1	6.3 U	20	6.3 U	6.3 U	20	145
WRS35	WRS35-1	09/28/00	1	6.3 U	6.3 U	6.3 U	8.7	17	110.1
WRS36	WRS36-1	09/28/00	1	4 U	4 U	4 U	4 U	4 U	4
WRS37	WRS37-1	09/25/00	1	190	83	150	1400	1500	7385
WRS38	WRS38-1	09/29/00	1	0.18 U	0.24	0.18 U	0.18 U	0.38	2.42
WRS39	WRS39-1	09/29/00	1	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0734
WRS40	WRS40-1	09/25/00	0.7	5.2 U	9.4	5.2 U	13	28	166.4
WRS44	WRS44-1	09/29/00	1	0.057 U	0.12	0.057 U	0.11	0.31	1.82
WRS45	WRS45-1	09/29/00	1	0.094 U	0.16	0.094 U	0.13	0.35	2.37
WRS46	WRS46-1	09/20/00	1	4.8 U	4.8 U	18	33	120	487
	WRS46-4	09/29/00	1	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.012
WRS-47	WRS-47	12/09/03	0.5	12.6 U	20.1	12.6 U	31.4	54.1	347.2
WRS-48	WRS-48	12/09/03	0.5	13.5 U	21.6	13.5 U	31.1	90.6	525.89
WRS-49	WRS-49	12/09/03	0.5	14.6 U	14.6 U	14.6 U	14.6 U	20.4	40.8
WRS-50	WRS-50	12/09/03	0.5	13.6	86.4	12.4 U	159	335	2176.4
WRS-51	WRS-51	12/09/03	0.5	13.4 U	13.4 U	13.4 U	13.4 U	13.4 U	13.4 U
WRS-52	WRS-52	12/09/03	0.5	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6
WRS-53	WRS-53	12/10/03	0.5	10.4 U	18.8	10.4 U	24	62.5	329.2
WRS-54	WRS-54	12/10/03	0.5	13.4 U	41.5	13.4 U	48.2	104	717
WRS-55	WRS-55	9/17/2007	0.5	8.29 U	8.29 U	8.29 U	8.29 U	11.6	74.58
WRS-56	WRS-56	9/17/2007	0.5	7.99 U	7.99 U	7.99 U	7.99 U	7.99 U	7.99 U
WRS-57	WRS-57	9/19/2007	0.5	10.1 U	10.1 U	10.1 U	10.1 U	17.2	41.5
WRS-58	WRS-58	9/19/2007	0.5	9.79 U	9.79 U	9.79 U	9.79 U	9.79 U	9.79 U
WRS-59	WRS-59	9/19/2007	0.5	8.03 U	8.03 U	8.03 U	8.03 U	8.03 U	8.03 U
WRS-60	WRS-60	9/19/2007	0.5	7.49 U	7.49 U	7.49 U	7.49 U	7.49 U	7.49 U
WRS-61	WRS-61	9/19/2007	0.5	8 U	8 U	8 U	8 U	8 U	8 U
WRS-62	WRS-62	9/19/2007	0.5	8.49 U	8.49 U	8.49 U	8.49 U	8.49 U	8.49 U
WRS-63	WRS-63	9/17/2007	0.5	11.1 U	17.7	24.4	44.3	88.6	420.7

Table 2-3
Polycyclic Aromatic Hydrocarbons in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon

Location	Sample	Sampling Date	Depth (feet bml)	Fluorene	Indeno(1,2,3-cd)-pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs
Cleanup Level				NV	211	NV	NV	NV	22800
WRS-64	WRS-64	9/17/2007	0.5	8.48 U	8.48 U	8.48 U	8.48 U	8.48 U	8.48 U
WRS-65	WRS-65	9/17/2007	0.5	8.01 U	8.01 U	8.01 U	8.01 U	8.01 U	8.01 U
	WRS-65-Dup	9/17/2007	0.5	8.05 U	8.05 U	8.05 U	8.05 U	8.05 U	8.05 U
WRS-66	WRS-66	9/17/2007	0.5	13.3 U	13.3 U	13.3 U	13.3 U	16	65.3
WRS-67	WRS-67	9/17/2007	0.5	11.6 U	11.6 U	11.6 U	18.5	46.3	222.3
WRS-68	WRS-68	9/17/2007	0.5	12 U	12 U	12 U	12 U	17.9	33.4
WRS-69	WRS-69	9/18/2007	0.5	16 U	16 U	16 U	16 U	22.4	40
WRS-70	WRS-70	9/18/2007	0.5	14.5 U	14.5 U	14.5 U	14.5 U	20.2	36.1
	WRS-70-Dup	9/18/2007	0.5	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U
WRS-71	WRS-71	9/18/2007	0.5	12 U	12 U	12 U	12 U	19.2	90
WRS-72	WRS-72	9/19/2007	0.5	128	78.2	38.1	1040	1120	5538.7
WRS-73	WRS-73	9/18/2007	0.5	13.4 U	13.4 U	13.4 U	13.4 U	13.4 U	16.1
WRS-74	WRS-74	9/18/2007	0.5	13 U	13 U	13 U	13 U	18.2	36.4
WRS-75	WRS-75	9/19/2007	0.5	67.5	179	81	487	900	5107.6
WRS-76	WRS-76	9/19/2007	0.5	11.6	35.9	23.2	61.2	114	751.9
WRS-77	WRS-77	9/18/2007	0.5	12.4 U	12.4 U	12.4 U	12.4 U	14.9	28.5
WRS-78	WRS-78	9/18/2007	0.5	20.8	78.9	12.1	251	436	2065.4
WRS-79	WRS-79	9/18/2007	0.5	13.1 U	13.1 U	13.1 U	17	30.1	83.8
WRS-80	WRS-80	9/18/2007	0.5	13.8 U	20.6	13.8 U	27.5	71.5	389.1
WRS-81	WRS-81	9/18/2007	0.5	19.3	77.1	19.3	200	399	2058.3
WRS-82	WRS-82	9/18/2007	0.5	12.9 U	61.9	12.9 U	120	240	1362.1
WRS-83	WRS-83	9/18/2007	0.5	12.3 U	22.1	17.2	30.6	68.6	418
WRS-84	WRS-84	9/18/2007	0.5	12.2 U	12.2 U	12.2 U	12.2 U	20.8	68.5
WRS-85	WRS-85	9/18/2007	0.5	12.3 U	12.3 U	12.3 U	13.6	29.6	118.4
WRS-86	WRS-86	9/18/2007	0.5	11.7 U	26.9	23.4	72.5	104	614.7

**Table 2-4
Metals in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon**

Location	Sample ID	Date Collected	Depth (feet bml)	Antimony	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
Cleanup Level				3	4.98	111	149	128	0.2	48.6	459
Background Value				4	1	42	36	17	0.07	38	86
WRS5	WRS5-0/0.5	10/29/97	0/0.5	10 U	1 U	22	30	20 U	0.2 U	24	315
WRS6	WRS6-0/0.5	10/28/97	0/0.5	10 U	1 U	25	41	20 U	0.2 U	26	247
WRS7	WRS7-0/0.5	10/28/97	0/0.5	10 U	1 U	29	63	119	0.4	28	581
WRS8	WRS8-0/0.5	10/28/97	0/0.5	10 U	1 U	28	45	20 U	0.2 U	29	382
WRS9	WRS9-0.0'/0.5'	10/19/98	0.5	25	6	94	1210	1910	0.9	108	1640
WRS10	WRS10-0.0'/0.4'	10/19/98	0.4	287	3	48	233	303	1.3	65	712
WRS11	WRS11-0.0'/0.7'	10/19/98	0.7	10 U	1 U	16	47	316	0.3	17	227
WRS12	WRS12-0.0'/0.5'	10/19/98	0.5	10 U	1 U	30	35	25	0.2 U	29	132
WRS13	WRS13-0.0'/0.8'	10/19/98	0.8	10 U	1 U	25	36	34	0.2 U	24	139
WRS15	WRS15-0.1'/0.3'	10/19/98	0.3	10 U	1 U	31	80	542	0.2 U	28	207
WRS16	WRS16-0.0'/0.2'	10/19/98	0.2	NA	NA	NA	NA	NA	0.2 U	NA	NA
WRS17	WRS17-0.0'/0.2'	10/20/98	0.2	NA	NA	NA	NA	NA	0.4	NA	NA
WRS18	WRS18-0.0'/0.2'	10/20/98	0.2	14	1 U	54	712	2290	0.3	75	454
WRS19	WRS19-0.0'/0.7'	10/20/98	0.7	10 U	3	44	148	126	0.3	68	477
WRS20	WRS20-0.0'/0.6'	10/20/98	0.6	10 U	1 U	71	191	143	0.2 U	46	293
WRS21	WRS21-0.2'/0.8'	10/20/98	0.8	10 U	1 U	19	237	388	0.2 U	21	212
WRS22	WRS22-1	09/20/00	1	14 U	3.7	34	38	21	0.06	25	110
WRS23	WRS23-1	09/27/00	1	11 U	1.1 U	16	15	5.8	0.021 U	15	46
WRS24	WRS24-1	09/27/00	1	11 U	1.1 U	17	17	2.1 U	0.022 U	20	44
WRS25	WRS25-1	09/23/00	1	14 U	2.9	30	28	13	0.13	22	74
WRS26	WRS26-1	09/27/00	1	10 U	1 U	15	14	2.5	0.02 U	15	42
	WRS26-4	09/27/00	1	9.1	0.91 U	14	14	2	1.4	15	41
WRS27	WRS27-1	09/27/00	1	11	1.1 U	12	12	2.1 U	0.02 U	12	35
WRS28	WRS28-1	09/23/00	1	16 U	4.1	38	62	36	0.48	24	290
WRS29	WRS29-1	09/27/00	1	10 U	1 U	12	14	2.1	0.018 U	14	47
WRS30	WRS30-1	09/27/00	1	9.9 U	0.99 U	22	20	160	0.016 U	18	58
WRS31	WRS31-1	09/25/00	1	16 U	1.7	42	40	9.6	0.05	29	90
WRS32	WRS32-1	09/28/00	1	12 U	3.8	24	18	8.5	0.034	16	51
WRS33	WRS33-1	09/27/00	1	14 U	U	31	22	5.6	0.26	21	70
WRS34	WRS34-1	09/25/00	1	17 U	1.8	46	44	9.4	0.065	31	96

**Table 2-4
Metals in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon**

Location	Sample ID	Date Collected	Depth (feet bml)	Antimony	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
Cleanup Level				3	4.98	111	149	128	0.2	48.6	459
Background Value				4	1	42	36	17	0.07	38	86
WRS35	WRS35-1	09/28/00	1	16 U	6	37	49	27	0.18	24	390
WRS36	WRS36-1	09/28/00	1	10 U	3.7	24	19	4.1	0.023 U	18	53
WRS37	WRS37-1	09/25/00	1	16 U	1.6	41	41	24	0.066	29	120
WRS38	WRS38-1	09/29/00	1	18 U	6.5	45	52	29	0.2	27	340
WRS39	WRS39-1	09/29/00	1	11 U	3.6	23	17	5.2	0.024	18	55
WRS40	WRS40-1	09/25/00	0.7	14 U	1.5	40	33	12	0.069	27	90
WRS44	WRS44-1	09/29/00	1	14 U	5.7	45	46	41	0.14	26	98
WRS45	WRS45-1	09/29/00	1	15 U	6	46	44	20	0.083	27	110
WRS46	WRS46-1	09/21/00	1	13 U	3.8	32	29	11	0.078	22	130
	WRS46-4	09/29/00	1	12 U	3.6	24	17	7	0.04	16	51
WRS-47	WRS-47	12/09/03	0.5	3.14 U	0.157 U	23.2	35.7	24.7	NA	18.5	110
WRS-48	WRS-48	12/09/03	0.5	3.27 U	0.164 U	24.2	18.2	5.56	NA	20	116
WRS-49	WRS-49	12/09/03	0.5	3.91 U	0.195 U	25.8	19.5	3.91 U	NA	20.3	86.4
WRS-50	WRS-50	12/09/03	0.5	3.19 U	0.16 U	16.5	1.6 U	3.19 U	NA	14	55.2
WRS-51	WRS-51	12/09/03	0.5	3.14 U	0.157 U	21.2	1.57 U	3.14 U	NA	20.3	67.6
WRS-52	WRS-52	12/09/03	0.5	2.48 U	0.124 U	11.2	12.6	2.48 U	NA	11.5	46.6
WRS-53	WRS-53	12/10/03	0.5	2.89 U	0.145 U	16.2	35.1	47.2	NA	13.8	98.4
WRS-54	WRS-54	12/10/03	0.5	3.14 U	0.157 U	26.3	71	78.2	NA	22.4	192
WRS-55	WRS-55	09/17/07	0.5	0.058 UJ	0.127	7.81 J	13.8 J	21 J	0.0195 U	9.01 J	73.3 J
WRS-56	WRS-56	09/17/07	0.5	0.046 UJ	0.0922 U	8.17 J	1090 J	245 J	0.0158 U	8.65 J	53.6 J
WRS-57	WRS-57	09/19/07	0.5	0.068 UJ	0.135	18.2 J	13.9 J	11.3 J	0.023 U	15.6 J	307 J
WRS-58	WRS-58	09/19/07	0.5	0.052 UJ	0.105 U	1.24 J	1.05 UJ	2.1 U	0.0153 U	0.524 UJ	3.27 J
WRS-59	WRS-59	09/19/07	0.5	0.059 UJ	0.118 U	5.56 J	12.1 J	7.98 J	0.014 U	6.11 J	39.4 J
WRS-60	WRS-60	09/19/07	0.5	0.056 UJ	0.112 U	8.15	5.51	2.65	0.0134 U	8.33	30.9
WRS-61	WRS-61	09/19/07	0.5	0.057 UJ	0.113 U	12.3	7.97	4.52	0.0188 U	7.61	40.3 J
WRS-62	WRS-62	09/19/07	0.5	0.046 UJ	0.0922 U	7.91	7.2	1.84 U	0.0199 U	6.76	34.3 J
WRS-63	WRS-63	09/17/07	0.5	0.11 J	0.141 U	16.1	22.9	8.87	0.23	13.2	76.5
WRS-64	WRS-64	09/17/07	0.5	0.28 J	0.112 U	10.7	30.7	24.6	0.0402	10.4	64
WRS-65	WRS-65	09/17/07	0.5	2.2 J	0.153	20.3 J	88 J	45.5 J	0.0256	14.4 J	102 J
	WRS-65-Dup	09/17/07	0.5	0.084 J	0.0863 U	7.65 J	8.61 J	14 J	0.019	5.15 J	35.1 J

**Table 2-4
Metals in Surface Sediment
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon**

Location	Sample ID	Date Collected	Depth (feet bml)	Antimony	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
Cleanup Level				3	4.98	111	149	128	0.2	48.6	459
Background Value				4	1	42	36	17	0.07	38	86
WRS-66	WRS-66	09/17/07	0.5	0.093 UJ	0.185 U	26.9	27.4	4.41	0.0334 U	21.3	87.1
WRS-67	WRS-67	09/17/07	0.5	0.13 J	0.147	23.1	69.4	14.5	0.0357	17.9	96.8
WRS-68	WRS-68	09/17/07	0.5	0.079 UJ	0.157 U	24.7	24.5	6.68	0.03 U	20.5	86.2
WRS-69	WRS-69	09/18/07	0.5	0.12 UJ	0.231 U	30.6	32.8	4.62 U	0.0401 U	21.9	93.8
WRS-70	WRS-70	09/18/07	0.5	0.097 UJ	0.194 U	27.8	31.5	3.87 U	0.0362 U	20.5	85.1
	WRS-70-Dup	09/18/07	0.5	0.1 UJ	0.199 U	26	28.2	3.98 U	0.0228 U	19.1	81.3
WRS-71	WRS-71	09/18/07	0.5	0.068 UJ	0.15	25.2	23.1	5.24	0.0226 U	20.4	82.1
WRS-72	WRS-72	09/19/07	0.5	9 J	1.55	51.1 J	312 J	1860 J	0.313	50.4 J	1310 J
WRS-73	WRS-73	09/18/07	0.5	0.082 UJ	0.165 U	29.7	29.2	5	0.024 U	22.8	90.7
WRS-74	WRS-74	09/18/07	0.5	0.09 UJ	0.18 U	24.9	25.5	5.3	0.0287 U	20.6	129 J
WRS-75	WRS-75	09/19/07	0.5	36.3 J	0.658	114 J	102 J	655 J	0.125	61.2 J	869 J
WRS-76	WRS-76	09/19/07	0.5	0.77 J	0.201	19.7 J	34.4 J	15.4 J	0.029	17.5 J	99.3 J
WRS-77	WRS-77	09/18/07	0.5	0.069 UJ	0.153	22.3	23	3.05	0.0194 U	18.1	74.7 J
WRS-78	WRS-78	09/18/07	0.5	0.11 J	0.228	20.6	23.3	16.8	0.0362	17.1	110 J
WRS-79	WRS-79	09/18/07	0.5	0.073 UJ	0.191	24.6	24.3	5.34	0.0234 U	19.7	87.5 J
WRS-80	WRS-80	09/18/07	0.5	0.083 UJ	0.183	25.1	25.9	8.78	0.0448	20	99.6 J
WRS-81	WRS-81	09/18/07	0.5	1.5 J	0.324	26	44.5	36.6	0.0745	18.4	181 J
WRS-82	WRS-82	09/18/07	0.5	3.5 J	0.35	27.6	45.4	32.7	0.0776	24.3	190 J
WRS-83	WRS-83	09/18/07	0.5	0.07 UJ	0.181	23.3	23	8.48	0.0261	19.4	91.8 J
WRS-84	WRS-84	09/18/07	0.5	0.073 UJ	0.174	23.2	26.1	14.5	0.27	19.2	138 J
WRS-85	WRS-85	09/18/07	0.5	0.073 UJ	0.191	25	25.3	11.2	0.0236	20.4	96.1 J
WRS-86	WRS-86	09/18/07	0.5	0.27 J	0.331	25.8	50.9	51.3	0.0511	20.8	146 J

**Table 3-1
Mean Probable Effects Concentration and Toxicity Results
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon**

Sample ID	Date	Depth (feet bml)	Cadmium		Chromium		Copper		Lead		Nickel		Zinc		Mean Metals PECO	Total PAHs		Total PCBs		Mean PECO	Toxicity Results
			mg/kg	PECO	mg/kg	PECO	mg/kg	PECO	mg/kg	PECO	mg/kg	PECO	mg/kg	PECO		µg/kg	PECO	µg/kg	PECO		
Reliable PEC			4.98		111		149		128		48.6		459		NV	22800		676		NV	
Threshold Level			NV		NV		NV		NV		NV		NV		0.29	1		1		0.25	
WRS5-0/0.5	10/29/1997	0/0.5	0.5	0.10	22	0.20	30	0.20	10	0.08	24	0.49	315	0.69	0.29	56	0.00	100	0.15	0.24	NA
WRS6-0/0.5	10/28/1997	0/0.5	0.5	0.10	25	0.23	41	0.28	10	0.08	26	0.53	247	0.54	0.29	112	0.00	100	0.15	0.24	NA
WRS7-0/0.5	10/28/1997	0/0.5	0.5	0.10	29	0.26	63	0.42	119	0.93	28	0.58	581	1.27	0.59	634	0.03	200	0.30	0.48	NA
WRS8-0/0.5	10/28/1997	0/0.5	0.5	0.10	28	0.25	45	0.30	10	0.08	29	0.60	382	0.83	0.36	276	0.01	200	0.30	0.31	NA
WRS9-0.0'/0.5'	10/19/1998	0.5	6	1.20	94	0.85	1210	8.12	1910	14.92	108	2.22	1640	3.57	5.15	4340	0.19	7100	10.50	5.20	NA
WRS10-0.0'/0.4'	10/19/1998	0.4	3	0.60	48	0.43	233	1.56	303	2.37	65	1.34	712	1.55	1.31	1073	0.05	4300	6.36	1.78	NA
WRS11-0.0'/0.7'	10/19/1998	0.7	0.5	0.10	16	0.14	47	0.32	316	2.47	17	0.35	227	0.49	0.65	624	0.03	300	0.44	0.54	NA
WRS12-0.0'/0.5'	10/19/1998	0.5	0.5	0.10	30	0.27	35	0.23	25	0.20	29	0.60	132	0.29	0.28	440	0.02	100	0.15	0.23	NA
WRS13-0.0'/0.8'	10/19/1998	0.8	0.5	0.10	25	0.23	36	0.24	34	0.27	24	0.49	139	0.30	0.27	148	0.01	100	0.15	0.22	NA
WRS15-0.1'/0.3'	10/19/1998	0.3	0.5	0.10	31	0.28	80	0.54	542	4.23	28	0.58	207	0.45	1.03	25184	1.10	100	0.15	0.93	NA
WRS16-0.0'/0.2'	10/19/1998	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23820	1.04	NA	NA	1.04	NA
WRS17-0.0'/0.2'	10/20/1998	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	354	0.02	1100	1.63	0.82	NA
WRS18-0.0'/0.2'	10/20/1998	0.2	0.5	0.10	54	0.49	712	4.78	2290	17.89	75	1.54	454	0.99	4.30	2169	0.10	700	1.04	3.36	NA
WRS19-0.0'/0.7'	10/20/1998	0.7	3	0.60	44	0.40	148	0.99	126	0.98	68	1.40	477	1.04	0.90	2384	0.10	1200	1.78	0.91	NA
WRS20-0.0'/0.6'	10/20/1998	0.6	0.5	0.10	71	0.64	191	1.28	143	1.12	46	0.95	293	0.64	0.79	5384	0.24	700	1.04	0.75	NA
WRS21-0.2'/0.8'	10/20/1998	0.8	0.5	0.10	19	0.17	237	1.59	388	3.03	21	0.43	212	0.46	0.96	689	0.03	200	0.30	0.76	NA
WRS22-1	09/20/00	1	3.7	0.74	34	0.31	38	0.26	21	0.16	25	0.51	110	0.24	0.37	155.6	0.01	59	0.09	0.29	NA
WRS23-1	09/27/00	1	0.55	0.11	16	0.14	15	0.10	5.8	0.05	15	0.31	46	0.10	0.13	1.9	0.00	110	0.16	0.12	NA
WRS24-1	09/27/00	1	0.55	0.11	17	0.15	17	0.11	1.05	0.01	20	0.41	44	0.10	0.15	3.6	0.00	110	0.16	0.13	NA
WRS25-1	09/23/00	1	2.9	0.58	30	0.27	28	0.19	13	0.10	22	0.45	74	0.16	0.29	310	0.01	150	0.22	0.25	hit
WRS26-1	09/27/00	1	0.5	0.10	15		14	0.09	2.5	0.02	15	0.31	42	0.09	0.12	8.7	0.00	100	0.15	0.11	no-hit
WRS26-4	09/27/00	1	0.455	0.09	14		14	0.09	2	0.02	15	0.31	41	0.09	0.12	3.6	0.00	100	0.15	0.11	NA
WRS27-1	09/27/00	1	0.55	0.11	12	0.11	12	0.08	1.05	0.01	12	0.25	35	0.08	0.11	3.6	0.00	98	0.14	0.10	NA
WRS28-1	09/23/00	1	4.1	0.82	38	0.34	62	0.42	36	0.28	24	0.49	290	0.63	0.50	146.6	0.01	160	0.24	0.40	NA
WRS29-1	09/27/00	1	0.5		12	0.11	14	0.09	2.1	0.02	14	0.29	47	0.10	0.12	3.5	0.00	110	0.16	0.11	no-hit
WRS30-1	09/27/00	1	0.495	0.10	22	0.20	20	0.13	160	1.25	18	0.37	58	0.13	0.36	2.2	0.00	110	0.16	0.29	NA
WRS31-1	09/25/00	1	1.7	0.34	42	0.38	40	0.27	9.6	0.08	29	0.60	90	0.20	0.31	23.8	0.00	100	0.15	0.25	no-hit
WRS32-1	09/28/00	1	3.8	0.76	24	0.22			8.5	0.07	16	0.33	51	0.11	0.30	90.8	0.00	120	0.18	0.24	NA
WRS33-1	09/27/00	1	0.7	0.14	31	0.28	22	0.15	5.6	0.04	21	0.43	70	0.15	0.20	5.3	0.00	160	0.24	0.18	NA
WRS34-1	09/25/00	1	1.8	0.36	46	0.41	44	0.30	9.4	0.07	31	0.64	96	0.21	0.33	145	0.01	200	0.30	0.29	NA
WRS35-1	09/28/00	1	6	1.20	37	0.33	49	0.33	27	0.21	24	0.49	390	0.85	0.57	110.1	0.00	110	0.16	0.45	hit
WRS36-1	09/28/00	1	3.7	0.74	24	0.22	19	0.13	4.1	0.03	18	0.37	53	0.12	0.27	4	0.00	110	0.16	0.22	NA
WRS37-1	09/25/00	1	1.6	0.32	41	0.37	41	0.28	24	0.19	29	0.60	120	0.26	0.34	7385	0.32	160	0.24	0.32	no-hit
WRS38-1	09/29/00	1	6.5	1.31	45	0.41	52	0.35	29	0.23	27	0.56	340	0.74	0.60	2.42	0.00	5.1	0.01	0.45	NA
WRS39-1	09/29/00	1	3.6	0.72	23	0.21	17	0.11	5.2	0.04	18	0.37	55	0.12	0.26	0.0734	0.00	0.24	0.00	0.20	NA
WRS40-1	09/25/00	0.7	1.5	0.30	40	0.36	33	0.22	12	0.09	27	0.56	90	0.20	0.29	166.4	0.01	150	0.22	0.24	NA
WRS44-1	09/29/00	1	5.7	1.14	45	0.41	46	0.31	41	0.32	26	0.53	98	0.21	0.49	1.82	0.00	1.7	0.00	0.37	NA
WRS45-1	09/29/00	1	6	1.20	46	0.41	44	0.30	20	0.16	27	0.56	110	0.24	0.48	2.37	0.00	2.9	0.00	0.36	NA
WRS46-1	09/21/00	1	3.8	0.76	32	0.29	29	0.19	11	0.09	22	0.45	130	0.28	0.34	487	0.02	150	0.22	0.29	hit
WRS46-4	09/29/00	1	3.6	0.72	24	0.22	17	0.11	7	0.05	16	0.33	51	0.11	0.26	0.012	0.00	0.32	0.00	0.19	NA
WRS-47	12/09/03	0.5	0.0785	0.02	23.2	0.21	35.7	0.24	24.7	0.19	18.5	0.38	110	0.24	0.21	347.2	0.02	42.20	0.06	0.17	no-hit
WRS-48	12/09/03	0.5	0.082	0.02	24.2	0.22	18.2	0.12	5.56	0.04	20	0.41	116	0.25	0.18	525.9	0.02	68.70	0.10	0.15	no-hit
WRS-49	12/09/03	0.5	0.0975	0.02	25.8	0.23	19.5	0.13	1.955	0.02	20.3	0.42	86.4	0.19	0.17	40.8	0.00	8.75	0.01	0.13	NA
WRS-50	12/09/03	0.5	0.08	0.02	16.5	0.15	0.8	0.01	1.595	0.01	14	0.29	55.2	0.12	0.10	2176.4	0.10	11.10	0.02	0.09	NA
WRS-51	12/09/03	0.5	0.0785	0.02	21.2	0.19	0.785	0.01	1.57	0.01	20.3	0.42	67.6	0.15	0.13	13.4	0.00	8.03	0.01	0.10	NA

**Table 3-1
Mean Probable Effects Concentration and Toxicity Results
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon**

Sample ID	Date	Depth (feet bml)	Cadmium		Chromium		Copper		Lead		Nickel		Zinc		Mean Metals	Total PAHs		Total PCBs		Mean PECO	Toxicity Results
			mg/kg	PECO	mg/kg	PECO	mg/kg	PECO	mg/kg	PECO	mg/kg	PECO	mg/kg	PECO	mg/kg	PECO	PECO	µg/kg	PECO		
Reliable PEC			4.98		111		149		128		48.6		459		NV	22800		676		NV	
Threshold Level			NV		NV		NV		NV		NV		NV		0.29	1		1		0.25	
WRS-52 (WRS-28)	12/09/03	0.5	0.062	0.01	11.2	0.10	12.6	0.08	1.24	0.01	11.5	0.24	46.6	0.10	0.09	9.6	0.00	5.76	0.01	0.07	no-hit
WRS-53	12/10/03	0.5	0.0725	0.01	16.2	0.15	35.1	0.24	47.2	0.37	13.8	0.28	98.4	0.21	0.21	329.2	0.01	57.70	0.09	0.17	NA
WRS-54	12/10/03	0.5	0.0785	0.02	26.3	0.24	71	0.48	78.2	0.61	22.4	0.46	192	0.42	0.37	717.0	0.03	97.80	0.14	0.30	no-hit
WRS-55	9/17/2007	0.5	0.127	0.03	7.81	0.07	13.8	0.09	21	0.16	9.01	0.19	73.3	0.16	0.12	74.58	0.00	7.52	0.01	0.09	NA
WRS-56	9/17/2007	0.5	0.0461	0.01	8.17	0.07	1090	7.32	245	1.91	8.65	0.18	53.6	0.12	1.60	7.99	0.00	14.62	0.02	1.20	NA
WRS-57	9/19/2007	0.5	0.135	0.03	18.2	0.16	13.9	0.09	11.3	0.09	15.6	0.32	307	0.67	0.23	41.5	0.00	64.2	0.09	0.18	NA
WRS-58	9/19/2007	0.5	0.0525	0.01	1.24	0.01	0.525	0.00	1.05	0.01	0.262	0.01	3.27	0.01	0.01	9.79	0.00	1.47	0.00	0.01	NA
WRS-59	9/19/2007	0.5	0.059	0.01	5.56	0.05	12.1	0.08	7.98	0.06	6.11	0.13	39.4	0.09	0.07	8.03	0.00	11.07	0.02	0.05	NA
WRS-60	9/19/2007	0.5	0.056	0.01	8.15	0.07	5.51	0.04	2.65	0.02	8.33	0.17	30.9	0.07	0.06	7.49	0.00	1.27	0.00	0.05	NA
WRS-61	9/19/2007	0.5	0.0565	0.01	12.3	0.11	7.97	0.05	4.52	0.04	7.61	0.16	40.3	0.09	0.08	8	0.00	5.46	0.01	0.06	NA
WRS-62	9/19/2007	0.5	0.0461	0.01	7.91	0.07	7.2	0.05	0.92	0.01	6.76	0.14	34.3	0.07	0.06	8.49	0.00	1.27	0.00	0.04	NA
WRS-63	9/17/2007	0.5	0.0705	0.01	16.1	0.15	22.9	0.15	8.87	0.07	13.2	0.27	76.5	0.17	0.14	420.7	0.02	204	0.30	0.14	NA
WRS-64	9/17/2007	0.5	0.056	0.01	10.7	0.10	30.7	0.21	24.6	0.19	10.4	0.21	64	0.14	0.14	8.48	0.00	24.1	0.04	0.11	NA
WRS-65	9/17/2007	0.5	0.153	0.03	20.3	0.18	88	0.59	45.5	0.36	14.4	0.30	102	0.22	0.28	8.01	0.00	10.51	0.02	0.21	NA
WRS-65	9/17/2007	0.5	0.04315	0.01	7.65	0.07	8.61	0.06	14	0.11	5.15	0.11	35.1	0.08	0.07	8.05	0.00	6.63	0.01	0.05	NA
WRS-66	9/17/2007	0.5	0.0925	0.02	26.9	0.24	27.4	0.18	4.41	0.03	21.3	0.44	87.1	0.19	0.18	65.3	0.00	8.05	0.01	0.14	NA
WRS-67	9/17/2007	0.5	0.147	0.03	23.1	0.21	69.4	0.47	14.5	0.11	17.9	0.37	96.8	0.21	0.23	222.3	0.01	88.6	0.13	0.19	NA
WRS-68	9/17/2007	0.5	0.0785	0.02	24.7	0.22	24.5	0.16	6.68	0.05	20.5	0.42	86.2	0.19	0.18	33.4	0.00	1.79	0.00	0.13	NA
WRS-69	9/18/2007	0.5	0.1155	0.02	30.6	0.28	32.8	0.22	2.31	0.02	21.9	0.45	93.8	0.20	0.20	40	0.00	2.4	0.00	0.15	NA
WRS-70	9/18/2007	0.5	0.097	0.02	27.8	0.25	31.5	0.21	1.935	0.02	20.5	0.42	85.1	0.19	0.18	36.1	0.00	11.9	0.02	0.14	NA
WRS-70	9/18/2007	0.5	0.0995	0.02	26	0.23	28.2	0.19	1.99	0.02	19.1	0.39	81.3	0.18	0.17	14.6	0.00	151.8	0.22	0.16	NA
WRS-71	9/18/2007	0.5	0.15	0.03	25.2	0.23	23.1	0.16	5.24	0.04	20.4	0.42	82.1	0.18	0.18	90	0.00	41	0.06	0.14	NA
WRS-72	9/19/2007	0.5	1.55	0.31	51.1	0.46	312	2.09	1860	14.53	50.4	1.04	1310	2.85	3.55	5538.7	0.24	38.6	0.06	2.70	NA
WRS-73	9/18/2007	0.5	0.0825	0.02	29.7	0.27	29.2	0.20	5	0.04	22.8	0.47	90.7	0.20	0.20	16.1	0.00	4.5	0.01	0.15	NA
WRS-74	9/18/2007	0.5	0.09	0.02	24.9	0.22	25.5	0.17	5.3	0.04	20.6	0.42	129	0.28	0.19	36.4	0.00	4.93	0.01	0.15	NA
WRS-75	9/19/2007	0.5	0.658	0.13	114	1.03	102	0.68	655	5.12	61.2	1.26	869	1.89	1.69	5107.6	0.22	15110	22.35	4.09	NA
WRS-76	9/19/2007	0.5	0.201	0.04	19.7	0.18	34.4	0.23	15.4	0.12	17.5	0.36	99.3	0.22	0.19	751.9	0.03	132.8	0.20	0.17	NA
WRS-77	9/18/2007	0.5	0.153	0.03	22.3	0.20	23	0.15	3.05	0.02	18.1	0.37	74.7	0.16	0.16	28.5	0.00	5.06	0.01	0.12	NA
WRS-78	9/18/2007	0.5	0.228	0.05	20.6	0.19	23.3	0.16	16.8	0.13	17.1	0.35	110	0.24	0.19	2065.4	0.09	52.6	0.08	0.16	NA
WRS-79	9/18/2007	0.5	0.191	0.04	24.6	0.22	24.3	0.16	5.34	0.04	19.7	0.41	87.5	0.19	0.18	83.8	0.00	6.39	0.01	0.13	NA
WRS-80	9/18/2007	0.5	0.183	0.04	25.1	0.23	25.9	0.17	8.78	0.07	20	0.41	99.6	0.22	0.19	389.1	0.02	8.58	0.01	0.15	NA
WRS-81	9/18/2007	0.5	0.324	0.07	26	0.23	44.5	0.30	36.6	0.29	18.4	0.38	181	0.39	0.28	2058.3	0.09	321.8	0.48	0.28	NA
WRS-82	9/18/2007	0.5	0.35	0.07	27.6	0.25	45.4	0.30	32.7	0.26	24.3	0.50	190	0.41	0.30	1362.1	0.06	194.7	0.29	0.27	NA
WRS-83	9/18/2007	0.5	0.181	0.04	23.3	0.21	23	0.15	8.48	0.07	19.4	0.40	91.8	0.20	0.18	418	0.02	10.4	0.02	0.14	NA
WRS-84	9/18/2007	0.5	0.174	0.03	23.2	0.21	26.1	0.18	14.5	0.11	19.2	0.40	138	0.30	0.20	68.5	0.00	35.4	0.05	0.16	NA
WRS-85	9/18/2007	0.5	0.191	0.04	25	0.23	25.3	0.17	11.2	0.09	20.4	0.42	96.1	0.21	0.19	118.4	0.01	7.69	0.01	0.15	NA
WRS-86	9/18/2007	0.5	0.331	0.07	25.8	0.23	50.9	0.34	51.3	0.40	20.8	0.43	146	0.32	0.30	614.7	0.03	159.7	0.24	0.26	NA

**Table 3-2
Summary of Capping Scenarios
Zidell Waterfront Property
ZRZ Realty Company
Portland, Oregon**

Scenario	Cap Area (Acres)	Area Weighted Average PCBs			PCB Reduction (Compared to "No Cap" Scenario)	
		Cap Replacement Value = 1 ppb (ppb)	Cap Replacement Value = 10 ppb (ppb)	PCBs Remaining Outside the Cap (ppb)	Cap Replacement Value = 1 ppb	Cap Replacement Value = 10 ppb
No Cap	0.0	220.2	220.2	220.2	-	-
April Cap	9.0	20.0	22.5	27.5	90.9%	89.8%
Scenario A	9.8	19.1	22.0	27.4	91.3%	90.0%
Selected Cap	11.7	17.5	20.8	27.3	92.1%	90.5%
Scenario B	10.7	18.6	21.7	27.7	91.5%	90.2%
Scenario C	12.2	16.7	20.2	26.8	92.4%	90.8%
Scenario D	13.3	16.0	19.8	27.4	92.7%	91.0%
DEQ SMA	17.3	14.5	19.5	31.3	93.4%	91.2%