

APPENDIX I

STORM DRAIN AND CSO SOLIDS DATA

Appendix I –

Storm Drain and CSO Solids Data

Introduction:

This appendix presents Storm Drain and CSO solids data that have been used in source tracing efforts by the Port, County and City. The three types of samples that have been collected are Inline sediment traps, inline sediment grab samples and catch basin grab samples. All three types have been used to characterize storm drain solids while just the first two have been used to characterize combined sewer system solids. The Storm drain and CSO solids data presented in this appendix include the complete dataset for the EW COCs; i.e., all the source solids data collected through August 2010. Stormwater solids are presented in Table I-1 and CSO solids in Table I-2. Three maps have been included to show the sample locations for the source tracing solids data included in this appendix. Each map is labeled with the Locator ID. Map I-1 include all the CSO solids sampling locations as well as the catch basin and right of way catch basin sampling locations from within CSO basin but that represent storm drain solids into the combined sewer system. Storm drain solids sampling locations from S. Lander St SD are shown in Map I-2 and nearshore SDs, S. Hinds St SD and bridges are shown on Map I-3. Table 9-15 in Section 9.4.3.3.3 summarizes a subset of the data presented in this appendix.

There are no regulatory standards for solids collected from storm drain or CSO conveyance systems. State and local source control programs typically use the SMS as benchmarks to provide a rough indication of overall storm drain and CSO solids quality. Comparison of solids data in this appendix to SMS values are provided as “screening levels” for source tracing purposes. It should be emphasized that none of these values are applied as cleanup levels to storm drain or combined sewer solids. It is important to note that any comparison of this kind is most likely conservative given that sediments discharged from storm drains and CSOs are highly dispersed in the receiving environment and mixed with the natural sedimentation taking place in the system (Ecology and SAIC 2011). In addition, for CSOs, the majority of combined sanitary and stormwater flows are conveyed to the wastewater treatment plant. Source control investigations are typically conducted for COCs that were greater than the 2LAET in storm drain solids and greater than two times the 2LAET for combined sewer lines.

Text References:

This appendix was referenced in the following Sections of the *East Waterway Operable Unit Revised Draft Supplemental Remedial Investigation Report – Section 9: Source and Pathway Characterization*:

Section 9.4.3.3.3 – Summaries of Storm and CSO Solids Source-Tracing Data

Table Reference:

Table 9-15 – Source-Tracing Results for Direct Discharges – Solids Data Summary

Map Reference:

This appendix was referenced in the following Maps of the *East Waterway Operable Unit Revised Draft Supplemental Remedial Investigation Report – Section 9: Source and Pathway Characterization*:

Map 9-13 – Source Tracing Results, Arsenic

Map 9-14 – Source Tracing Results, Mercury

Map 9-15 – Source Tracing Results, HPAH

Map 9-16 – Source Tracing Results, BEHP

Map 9-17 – Source Tracing Results, 1,4-Dichlorobenzene

Map 9-18 – Source Tracing Results, PCBs

Map 9-19 – Dioxin/Furan TEQ Data

Table I-1: SW Solids data

Provider	Sample/Locator	Type	Outfall	Sample Date SOS/LAET CSL/2LAET	TOC (%)	Arsenic (mg/kg dw) 57 93	Mercury (mg/kg dw) 0.41 0.59	Cadmium (mg/kg dw) 5.1 6.7	Zinc (mg/kg dw) 410 960	2-Methyl- naphthalene (µg/kg dw) 670 670	Acenaphthene (µg/kg dw) 500 500	Anthracene (µg/kg dw) 960 960	Benzo(a) anthracene (µg/kg dw) 1300 1600	Benzo(a) pyrene (µg/kg dw) 1600 1600	Benzo(g,h,i) perylene (µg/kg dw) 670 720	Total Benzo- fluoranthenes (µg/kg dw) 3200 3600	Chrysene (µg/kg dw) 1400 2800	Dibenzo(a,h) anthracene (µg/kg dw) 230 230	Dibenzo- furan (µg/kg dw) 540 540	Fluoranthene (µg/kg dw) 1700 2500	Fluorene (µg/kg dw) 540 540	Indeno (1,2,3-cd) pyrene (µg/kg dw) 600 690	Phenanthrene (µg/kg dw) 1500 1500	Pyrene (µg/kg dw) 2600 3300	Total HPAH (µg/kg dw) 12000 17000	Total LPAH (µg/kg dw) 5200 5220
SPU	CB27A-081210	CB CS	Hanford/Lander/Diag CSO	8/12/2010	17.30	3.3	0.1		613	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,600 J	1,500 J	2,000 U	2,000 U	2,300	2,000 U	2,000 U	2,000 U	1,200 J	7,600 J	2,000 U
SPU	CB27B-081210	CB CS	Hanford/Lander/Diag CSO	8/12/2010	26.20	5	0.1 U		594	2,100 U	2,100 U	2,100 U	1,200 J	1,400 J	2,100 U	4,800	3,000	2,100 U	2,100 U	6,700	2,100 U	2,100 U	2,400	3,800	20,900 J	2,400
SPU	EWWS14G-033009	Inline SD	S Lander St CSO/SD	3/30/2009	1.30	6	0.05		204	77 U	77 U	77 U	73 J	93	77 U	250	120	77 U	77 U	120	77 U	56 J	39 J	140	917 J	39 J
SPU	RCB26-042104	RCB CS	Hanford/Lander/Diag CSO	4/21/2004	6.66	6 U	0.06 U		85	520	240 U	240 U	240 U	240 U	240 U	240 U	500	240 U	240 U	280	240 U	240 U	590	390	1,170	590
SPU	CB133-012009	CB SD	S Hinds St CSO/SD	1/20/2009	0.46	6 UJ	0.04 U		44 UJ	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
SPU	RCB166-041009	RCB SD	S Lander St CSO/SD	4/10/2009	8.40	6 U	0.03 U		599	20 J	39 U	58	130	240	140	670	520	39 U	39 U	640	39 U	83	250	650	3,073	334 J
SPU	EWWS15-040208	Trap SD	S Lander St CSO/SD	4/2/2008	3.96 J	6 U	0.09		187	59 U	59 U	48 J	240	290	66	750	390	59 U	59 U	840	59 U	81	400	640	3,297	486 J
SPU	RCB22-041604	RCB SD	S Lander St CSO/SD	4/16/2004	4.69	6 U	0.06 U		176	78 U	78 U	78 U	81	89	78 U	196	170	78 U	78 U	220	78 U	78 U	100	250	1,006	100
Port	EW10-B18-MH01	Inline sd	Port Nearshore SD	4/22/2010	3.58	6 U	0.02 U	0.4	782	39 U	39 U	39 U	39 U	40	37 J	99	39 U	39 U	78	39 U	39 U	30 J	68	394 J	30 J	
Port	EW10-B13-MH01	Inline sd	Port Nearshore SD	4/22/2010	2.19	6 U	0.02 U	0.3 U	200	39 U	39 U	39 U	39 U	22 J	21 J	50 J	38 J	39 U	39 U	30 J	39 U	39 U	39 U	30 J	191 J	39 U
SPU	EWWS14G-040208	Inline SD	S Lander St CSO/SD	4/2/2008	0.63 J	6 U	0.12		181	59 U	59 U	59 U	59 U	59 U	59 U	59 U	49 J	59 U	59 U	72	59 U	59 U	59 U	59	180 J	59 U
SPU	CB126-091608	CB SD	S Lander St CSO/SD	9/16/2008	4.00 J	6 U	0.05 U		287	140 U	140 U	140 U	140 U	140 U	140 U	140 U	150	140 U	140 U	140 U	140 U	140 U	140 U	140 J	290 J	140 U
SPU	CB164-082510	CB CS	Hanford #2 CSO	8/25/2010	5.60	6	0.07		339	120 U	120 U	140 U	320	190	190	640	830	120 U	1,000	2,000	130	140	1,000	1,400	5,710	1,370
SPU	CB135-032709	CB SD	S Hinds St CSO/SD	3/27/2009	6.41	6 U	0.06 U		505	59 U	59 U	39 J	61	48 J	45 J	178	200	59 U	59 U	210	59 U	36 J	320	160	938 J	392 J
SPU	RCB6-030304	RCB CS	Hanford/Lander/Diag CSO	3/3/2004	4.70	7 U	0.06 U		176	42 U	42 U	42 U	43	47	42 U	127	97	42 U	42 U	170	42 U	42 U	93	150	634	93
SPU	RCB3-020204	RCB CS	Hanford/Lander/Diag CSO	2/2/2004	5.20	7	0.07 U		179	79 U	79 U	79 U	76 J	95	40 J	198	130	79 U	79 U	220	79 U	79 U	120	220	979 J	120
SPU	RCB21-041604	RCB CS	Hanford/Lander/Diag CSO	4/16/2004	6.11	7 U	0.07 U		132	120 U	120 U	120 U	120 U	120 U	120 U	120 U	160	120 U	120 U	220	120 U	120 U	140	250	630	140
SPU	CB18-021204	CB CS	Hanford/Lander/Diag CSO	2/12/2004	8.90	7 U	0.22		359	190 U	190 U	190 U	190 U	190 U	190 U	200	190 U	190 U	190 U	190 U	190 U	190 U	190 U	290	490	190 U
SPU	CB134-032709	CB SD	S Hinds St CSO/SD	3/27/2009	3.80	7 U	0.06 U		1,420	69 J	110 U	96 J	110 U	110 U	110 U	124 J	130	110 U	110 U	270	110 U	110 U	270	170	624 J	576 J
SPU	RCB27-042104	RCB CS	Hanford/Lander/Diag CSO	4/21/2004	5.97	7 U	0.06 U		335	270 U	270 U	270 U	280	290	280	580 J	510	270 U	1,400 U	860	270 U	270 U	560	980	3,780 J	560
Port	EW10-B27-MH01	Inline sd	Port Nearshore SD	6/3/2010	4.43	7	0.08 J	0.4	2,120 J	120 U	120 U	69 J	140	200	140	340	330	120 U	120 U	440	120	89 J	370	370	2,050 J	560 J
Port	EW08-B26-CB-	CB sd	Port Nearshore SD	12/8/2008	10.3	7	0.05	1.7	1,510	110	45 J	520	730	810	360	1,200	810	44	72	1,700	160	190	860	1,700	7,500	1,680 J
Port	EW08-B24-CB-	CB sd	Port Nearshore SD	12/7/2008	10.6	7 U	0.08 U	1.2	1,720	130	49 J	71 J	94 J	660 J	400 J	890 J	1,300 J	68 J	62 J	1,300	200	120 J	1,200	1,600	6,400 J	1,600 J
SPU	CB115-041008	CB SD	S Lander St CSO/SD	4/10/2008	4.46	7 U	0.06 U		572	180 U	180 U	180 U	300	190	180 U	540	520	180 U	180 U	520	180 U	180 U	410	640	2,710	410
SPU	RCB187-050510	RCB CS	Hanford #2 CSO	5/5/2010	2.28	7 U	0.04	0.8	267	100 U	100 U	100 U	150	280	150	580	430	100 U	100 U	690	100 U	73 J	300	470	2,823 J	300
SPU	MH104-072709	Inline SD	S Hinds St CSO/SD	7/27/2009	5.58	7	0.12		230	58 U	86	660	460	670 J	58 UJ	1,520 J	1,400	58 UJ	75	3,000	190	58 UJ	1,400	2,200	9,250 J	2,410
SPU	RCB188-050510	RCB CS	Hanford #2 CSO	5/5/2010	1.76	7 U	0.06	1.1	427	150 U	150 U	150 U	260	360	240	900	270	83 J	150 U	1,200	150 U	170	460	710	4,193 J	460
SPU	RCB167-041009	RCB SD	S Lander St CSO/SD	4/10/2009	4.38	7 U	0.03 U		348	35 U	26 J	87	420	500	200	1,450	760	36	24 J	1,600	41	190	590	1,400	6,556	786 J
SPU	MH31-052505	Inline SD	Port SD B-13	5/25/2005	1.42	7	0.06		280	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
SPU	CB151-111209	CB SD	S Lander St CSO/SD	11/12/2009	5.61	7	0.07 J		560	310 U	2,200	8,000	31,000	34,000	10,000 J	84,000	38,000	3,400 J	1,700	83,000	2,900	11,000 J	46,000	64,000	358,400 J	59,100
SPU	CB125-091608	CB SD	S Lander St CSO/SD	9/16/2008	6.57 J	7.3	0.26		1,310	330 U	330 U	360	890	930	630	1,840	1,100	330 U	330 U	2,500	330 U	540	2,000	2,600 J	11,030 J	2,360
SPU	CB65-112910	CB SD	Port SD B-11	1/29/2010	17.40	7.7	0.23		1,100	230 U	230 U	230 U	180 J	580	230 J	710	230 U	230 U	700	230 U	150 J	420	510	3,060 J	420	
Port	EW08-B23-CB-	CB sd	Port Nearshore SD	12/7/2008	14.3	8 U	0.08	1.3	2,190	180	180 U	320 J	360 J	420 J	340 J	910 J	1,600 J	100 J	180 U	1,300	140 J	180 U	950	1,900	6,900 J	1,580 J
Port	EW08-B32-CB03	CB sd	Port Nearshore SD	12/9/2008	8.6	8	0.08	1.8	1,990 J																	
SPU	CB21-030204	CB CS	Hanford/Lander/Diag CSO	3/2/2004	4.80	8	0.06 U		305	2,800	400	270	570	500	140	1,300	700	100 U	180	1,400	630	130	1,900	1,300	6,040	3,760
SPU	RCB163-031309	RCB SD	S Lander St CSO/SD	3/13/2009	7.56 J	8 U	0.06		213	61 U	61 U	31 J	48 J	88 J	100 J	400 J	380	61 UJ	61 U	300	61 U	65 J	190	480	1,861 J	221 J
Port	EW10-B17-MH01 \	Inline sd	Port Nearshore SD	4/22/2010	6.03	8	0.05	1.8	1,300	84 U	84 U	44 J	130	460	190	510	540	84 U	84 U	480	84 U	81 J	210	250	2,620 J	300 J
Port	EW08-B18-CB-	CB sd	Port Nearshore SD	12/7/2008	12	8 U	0.09	1.4	1,990	7,000	300 J	1,100 J	240 J	540 J	370 J	995 J	1,300 J	200 J	410	1,100 J	1,500	160 J	2,100	2,300 J	7,100 J	6,700 J
Port	EW10-B14-MH01	Inline sd	Port Nearshore SD	4/22/2010	1.1	8	0.03 U	0.3 U	47	39 U	39 U	39 U	24 J	20 J	22 J	48 J	25 J	39 UJ	39 U	48	39 U	39 UJ	39 U	39	226 J	39 U
Port	EW08-B30-CB-	CB sd	Port Nearshore SD	12/9/2008	5.87	8	0.09	2.3	1,550	790	85	250	270 J	420	320	1,080	1,200 J	52 J	84	2,100	230	140	1,400	1,600	7,200 J	2,200
SPU	CB118-052308	CB SD	S Lander St CSO/SD	5/23/2008	2.99	8 U	0.07 U		299	250	210 U	210 U	110 J	110 J	210 U	370	280	210 U	210 U	420	210 U	210 U	300	540	1,830 J	300
Port	EW08-B7-CB-COMP01	CB sd	Port Nearshore SD	12/7/2008	17.5	8 U	0.1	1.7	1,660	400 J	260 UJ	660 J	1,800 J	1,000 J	960 J	3,000 J	1,800 J	59 U	190 J	3,100 J	510 J	430 J	2,900 J	5,200 J	17,300 J	4,500 J
SPU	CB71-052505	CB SD	Port SD B-16	5/25/2005	5.58	8	0.07		1,370	220 U	220 U	220 U	220 U	220 U	220 U	270	390	220 U	220 U	730	220 U	220 U	400	440	1,830	400
SPU	EWWS12-040208	Trap SD	S Lander St CSO/SD	4/2/2008	4.69 J	8 U	0.13		446	160 U	160 U	110 J	480	520	190	1,370	800	160 U	160 U	1,600	160 U	180	560	980	6,120	670 J
Port	EW10-B32-CBC01	CB sd	Port Nearshore SD	6/3/2010		8 U	0.18 J	12.1	1,140 J	210	200 U	180 J	970	1,600	1,200	2,600	2,600	260	200 U	2,600	110 J	790	1,000	1,800	14,400	1,400 J
SPU	EWWS15-092508	Trap SD	S Lander St CSO/SD	9/25/2008	6.65	9 U	0.18		514	180 U	180 U	180 U	120 J	220	100 J	570	400	180 U	180 U	500	180 U	180 U	230	420	2,330 J	230
Port	EW08-B27-CB-	CB sd	Port Nearshore SD	12/8/2008	9.9	9 U	0.12	1.8	1,490	150 J	98 J	260	620	1,100	940	2,700	2,000	62 J	120 J	3,100	260	550	1,800	2,600	13,700 J	2,500 J
SPU	EWWS15-100209	Trap SD	S Lander St CSO																							

Table I-1: SW Solids data

Provider	Sample/Locator	Type	Outfall	Sample Date SOS/LAET CSL/2LAET	Total cPAH (µg/kg dw) N/A N/A	Bis(2-ethylhexyl) phthalate (µg/kg dw) 1300 3100	Butyl benzyl phthalate (µg/kg dw) 63 900	di-n-butyl phthalate (µg/kg dw) 1400 5100	1,4-Dichloro- benzene (µg/kg dw) 110 110	2,4 Dimethylphenol (µg/kg dw) 29 29	n-Nitroso- diphenylamine (µg/kg dw) 28 40	Phenol (µg/kg dw) 420 1200	Total PCBs (µg/kg dw) 130 1000	Dioxin/Furan TEQ (ng TEQ/kg dw) N/A N/A
SPU	CB27A-081210	CB CS	Hanford/Lander/Diag CSO	8/12/2010	1,875 J	20,000 B	1,400 J	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	48 U	
SPU	CB27B-081210	CB CS	Hanford/Lander/Diag CSO	8/12/2010	2,555 J	1,400,000 B	3,600	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	330	
SPU	EWWT4G-033009	Inline SD	S Lander St CSO/SD	3/30/2009	148 J	1,100	77 U	77 U	77 U	77 U	77 U	77 U	19 U	
SPU	RCB26-042104	RCB CS	Hanford/Lander/Diag CSO	4/21/2004	221	1,300	240 U	240 U	240 U	240 U	240 U	240 U	19 U	
SPU	CB133-012009	CB SD	S Hinds St CSO/SD	1/20/2009	17	26	19 U	19 U	19 U	19 U	19 U	19 U	20 U	
SPU	RCB166-041009	RCB SD	S Lander St CSO/SD	4/10/2009	341	4,300	420	110	39 U	39 U	39 U	39 U	20 U	
SPU	EWWT5-040208	Trap SD	S Lander St CSO/SD	4/2/2008	413	1,200	59 U	59 U	59 U	59 U	59 U	59 U	20 U	
SPU	RCB22-041604	RCB SD	S Lander St CSO/SD	4/16/2004	138	3,100	160	78 U	78 U	78 U	78 U	78 U	21 J	
Port	EW10-B18-MH01	Inline sd	Port Nearshore SD	4/22/2010	60	510	420	39 U	6.1 U	6.1 U	30 U	39 U	31 U	
Port	EW10-B13-MH01	Inline sd	Port Nearshore SD	4/22/2010	39	19,000	420 J	39 U	6.1 U	6.1 U	30 U	39 U	31 U	
SPU	EWWT4G-040208	Inline SD	S Lander St CSO/SD	4/2/2008	54 J	900	59 U	59 U	59 U	59 U	59 U	59 U	32	
SPU	CB126-091608	CB SD	S Lander St CSO/SD	9/16/2008	128	3,000 U	140 U	260	140 U	140 U	140 U	170	67	
SPU	CB164-082510	CB CS	Hanford #2 CSO	8/25/2010	332	8,200 B	240	96 J	120 U	120 U	120 U	120 U	69	
SPU	CB135-032709	CB SD	S Hinds St CSO/SD	3/27/2009	89 J	1,500	36 J	59 U	59 U	59 U	59 U	77	178	
SPU	RCB6-030304	RCB CS	Hanford/Lander/Diag CSO	3/3/2004	75	4,000	250	140	470	42 U	42 U	42 U	19 U	
SPU	RCB3-020204	RCB CS	Hanford/Lander/Diag CSO	2/2/2004	143 J	2,400	340	79 U	79 U	79 U	79 U	58 J	19 U	
SPU	RCB21-041604	RCB CS	Hanford/Lander/Diag CSO	4/16/2004	110	4,300	180	120 U	120 U	120 U	120 U	120 U	19 U	
SPU	CB18-021204	CB CS	Hanford/Lander/Diag CSO	2/12/2004	173	20,000	290	190 U	190 U	190 U	190 U	190 U	19 U	
SPU	CB134-032709	CB SD	S Hinds St CSO/SD	3/27/2009	102 J	1,200	110 U	110 U	110 U	110 U	110 U	210	20	
SPU	RCB27-042104	RCB CS	Hanford/Lander/Diag CSO	4/21/2004	449 J	12,000	270 U	270 U	270 U	270 U	270 U	270 U	22	
Port	EW10-B27-MH01	Inline sd	Port Nearshore SD	6/3/2010	284	2,000 J	36	120 U	5.9 J	5.9 U	30 U	120 U	32 U	
Port	EW08-B26-CB-	CB sd	Port Nearshore SD	12/8/2008	1,048	13,000	4,600	120	36 U	36 U	180 U	95 J	34	
Port	EW08-B24-CB-	CB sd	Port Nearshore SD	12/7/2008	811	11,000	3,800	230	48 U	48 U	240 U	110 J	39	
SPU	CB115-041008	CB SD	S Lander St CSO/SD	4/10/2008	324	10,000	1,100	3,700	180 U	180 U	180 U	380	43	
SPU	RCB187-050510	RCB CS	Hanford #2 CSO	5/5/2010	385 J	4,200	360	79 J	100 U	100 U	100 U	180	56	
SPU	MH104-072709	Inline SD	S Hinds St CSO/SD	7/27/2009	897 J	3,200	58 U	58 U	57 J	58 U	58 U	58 U	60	
SPU	RCB188-050510	RCB CS	Hanford #2 CSO	5/5/2010	529 J	10,000	1,400	170	150 U	150 U	150 U	150 U	63	
SPU	RCB167-041009	RCB SD	S Lander St CSO/SD	4/10/2009	728	3,900	310	260	35 U	35 U	35 U	48	124 J	
SPU	MH31-052505	Inline SD	Port SD B-13	5/25/2005	115	420	460	120 U	120 U	120 U	120 U	120 U	150	
SPU	CB151-111209	CB SD	S Lander St CSO/SD	11/12/2009	48,340 J	7,600	1,100	310 U	310 U	310 U	310 U	240 J	680	
SPU	CB125-091608	CB SD	S Lander St CSO/SD	9/16/2008	1,334	23,000 U	360 U	400	330 U	330 U	330 U	330 U	48	
SPU	CB65-112910	CB SD	Port SD B-11	1/29/2010	666 J	36,000	580	5,200	230 U	230 U	470	230 U	3,000	
Port	EW08-B23-CB-	CB sd	Port Nearshore SD	12/7/2008	612	20,000	8,800	590	86 U	86 U	430 U	200	20	
Port	EW08-B32-CB03	CB sd	Port Nearshore SD	12/9/2008									20 U	
SPU	CB21-030204	CB CS	Hanford/Lander/Diag CSO	3/2/2004	727	17,000	860	130	310	520 U	100 U	100 U	24	
SPU	RCB163-031309	RCB SD	S Lander St CSO/SD	3/13/2009	155 J	7,600	270	61 U	61 U	61 U	61 U	130	26	
Port	EW10-B17-MH01 \	Inline sd	Port Nearshore SD	4/22/2010	554	5,200	2,700	120	5.9 U	5.9 U	30 U	84 U	30 U	
Port	EW10-B17-MH101													
Port	EW08-B18-CB- COMP01 \ EW08-B18- CB-COMP101	CB sd	Port Nearshore SD	12/7/2008	773	18,000	3,800 J	640	82 U	82 U	410 U	240 J	30	
Port	EW10-B14-MH01	Inline sd	Port Nearshore SD	4/22/2010	47	71 U	83 J	39 U	6 U	6 U	30 U	39 U	33 U	
Port	EW08-B30-CB-	CB sd	Port Nearshore SD	12/9/2008	602	16,000	800	110 J	61 U	61 U	300 U	97 U	41	
SPU	CB118-052308	CB SD	S Lander St CSO/SD	5/23/2008	213 J	15,000	480	210 U	210 U	210 U	210 U	240	54	
Port	EW08-B7-CB-COMP01	CB sd	Port Nearshore SD	12/7/2008	1,553	39,000 J	1,800	240 J	59 U	59 U	300 U	310 J	54	
SPU	CB71-052505	CB SD	Port SD B-16	5/25/2005	218	5,300	1,500	260 U	220 U	220 U	220 U	220 U	58 J	
SPU	EWWT2-040208	Trap SD	S Lander St CSO/SD	4/2/2008	763	8,800	310 J	240	160 U	160 U	160 U	160 U	148	
Port	EW10-B32-CBC01	CB sd	Port Nearshore SD	6/3/2010	2,166	13,000	490	200 U	16 J	12 U	62 U	200 U	690	
SPU	EWWT5-092508	Trap SD	S Lander St CSO/SD	9/25/2008	338 J	11,000	180 U	180 U	180 U	180 U	180 U	180 U	20 U	
Port	EW08-B27-CB-	CB sd	Port Nearshore SD	12/8/2008	1,532	22,000	2,600	470	45 U	45 U	220 U	210 J	30	
SPU	EWWT5-100209	Trap SD	S Lander St CSO/SD	10/2/2009	345 J	9,300	340	290 U	290 U	290 U	290 U	290 U	43	
SPU	RCB29-050704	RCB CS	Hanford/Lander/Diag CSO	5/7/2004	97	1,400	140	60 U	60 U	60 U	60 U	60 U	68	
SPU	EWWT4-040208	Trap SD	S Lander St CSO/SD	4/2/2008	744 J	7,100	930 J	100 J	160 U	160 U	160 U	160 U	72	
SPU	RCB186-050510	RCB CS	Hanford #2 CSO	5/5/2010	503	18,000	1,600 J	330	96 U	96 U	96 U	96 U	88	
SPU	EWWT3-040208	Trap SD	S Lander St CSO/SD	4/2/2008	1,118	6,800	200 J	160 U	160 U	160 U	160 U	160 U	99	
SPU	CB67-033005	CB SD	SW Florida St SD, B-21	3/30/2005	294 J	18,000	550	300 U	220 U	220 U	220 U	220 U	100 Y	
SPU	CB124-082908	CB SD	Port SD B-37	8/29/2008	748	60,000	770 U	2,700	770 U	770 U	770 U	770 U	120	
Port	EW08-B32-CB06	CB sd	Port Nearshore SD	12/9/2008									310 J	
SPU	MH133-050310	Inline SD	SW Spokane St SD, B-4	5/3/2010	972 J	33,000	560 J	130 J	230 U	230 U	230 U	230 U	284	34.6
SPU	EWWT1-050310	Trap SD	S Lander St CSO/SD	5/3/2010									229	99.2
SPU	CB28-032604	CB CS	Hanford/Lander/Diag CSO	3/26/2004	724	14,000	360	660	59 U	59 U	59 U	170	18 J	
SPU	RCB11-031504	RCB CS	Hanford/Lander/Diag CSO	3/15/2004	562	3,200	230	140 U	140 U	140 U	140 U	140 U	19 U	
SPU	CB161-072710	CB CS	Hanford/Lander/Diag CSO	7/27/2010	157 J	770	320	190 U	190 U	190 U	190 U	190 U	19 U	
SPU	RCB168-041009	Inline SD	S Hinds St CSO/SD	4/10/2009	24 J	290	68	14 J	20 U	20 U	20 U	20 U	20 U	
SPU	EWWT3-033009	Trap SD	S Lander St CSO/SD	3/30/2009	1,159 J	14,000	420	230	220 U	220 U	220 U	200 J	20 U	
SPU	EWWT5-033009	Trap SD	S Lander St CSO/SD	3/30/2009	294 J	11,000	410	200 U	200 U	200 U	200 U	330	20 U	
SPU	EWWT2-100209	Trap SD	S Lander St CSO/SD	10/2/2009	3,636 J	17,000	1,100	360 J	400 U	400 U	400 U	400 U	20 U	
SPU	CB69-052505	CB SD	Port SD B-23	5/25/2005	785	20,000	4,800	2,000 U	860 U	860 U	860 U	8,400	20 J	
Port	EW08-B31-CB-	CB sd	Port Nearshore SD	12/9/2008	346	11,000	18,000	370	58 U	58 U	290 U	75 U	28	
SPU	CB56-020905	CB SD	S Lander St CSO/SD	2/9/2005	6,996	10,000	1,100	240	140 U	140 U	140 U	460	29	

Table I-1: SW Solids data

Provider	Sample/Locator	Type	Outfall	Sample Date	TOC (%)	Arsenic (mg/kg dw)	Mercury (mg/kg dw)	Cadmium (mg/kg dw)	Zinc (mg/kg dw)	2-Methylnaphthalene (µg/kg dw)	Acenaphthene (µg/kg dw)	Anthracene (µg/kg dw)	Benzo(a)anthracene (µg/kg dw)	Benzo(a)pyrene (µg/kg dw)	Benzo(g,h,i)perylene (µg/kg dw)	Total Benzo-fluoranthenes (µg/kg dw)	Chrysene (µg/kg dw)	Dibenzo(a,h)anthracene (µg/kg dw)	Dibenzo-furan (µg/kg dw)	Fluoranthene (µg/kg dw)	Fluorene (µg/kg dw)	Indeno (1,2,3-cd)pyrene (µg/kg dw)	Phenanthrene (µg/kg dw)	Pyrene (µg/kg dw)	Total HPAH (µg/kg dw)	Total LPAH (µg/kg dw)
				SQS/LAET CSL/2LAET		57 93	0.41 0.59	5.1 6.7	410 960	670 670	500 500	960 960	1300 1600	1600 1600	670 720	3200 3600	1400 2800	230 230	540 540	1700 2500	540 540	600 690	1500 1500	2600 3300	12000 17000	5200 5220
SPU	CB29-040704	CB CS	Hanford/Lander/Diag CSO	4/7/2004	11.30	10 U	0.09 U		668	7,800	880 U	880 U	890	880 U	880 U	2,000	1,700	880 U	880 U	2,900	880 U	880 U	2,100	1,900	9,390	5,200
SPU	RCB2-020204	RCB CS	Hanford/Lander/Diag CSO	2/2/2004	5.50	10	0.07 U		137	79 U	45 J	72 J	230	190	77 J	510	340	79 U	79 U	660	47 J	78 J	460	600	2,685 J	624 J
Port	EW10-B7-CBC01	CB sd	Port Nearshore SD	6/4/2010		10	0.03 U	1	616	350 U	350 U	350 UJ	300 J	300 J	340 J	600	800 J	350 UJ	350 U	1,200 J	350 UJ	350 UJ	650 J	970 J	4,500 J	650 J
SPU	RCB28-042104	RCB CS	Hanford/Lander/Diag CSO	4/21/2004	12.30	10 U	0.2		313	190 U	190 U	190 U	250	260	190 U	460	400	190 U	190 U	590	190 U	190 U	380	590	2,550	380
Port	EW10-B7-MH01	Inline sd	Port Nearshore SD	4/22/2010	3.96	10	0.03	0.5	296	40 UJ	40 UJ	28 J	86	78	87	200	240	40 U	40 UJ	360	40 UJ	27 J	140	270	1,350 J	170 J
SPU	MH102-031309	Inline SD	S Lander St CSO/SD	3/13/2009	4.52	10	0.29		688	43 J	85	270	810	890 J	430 J	2,000 J	1,100	120 J	45	1,600	100	340 U	1,000	2,300	9,250 J	1,489 J
SPU	EWWS14-100209	Trap SD	S Lander St CSO/SD	10/2/2009	3.07	10 U	0.26		578	160 J	160 J	190	1,500	10,000	3,100	14,200	3,300	450	190 U	5,600	240	2,900 J	1,900	1,900	42,950 J	2,940 J
SPU	CB68-042805	CB SD	Port SD, B-7	4/28/2005	7.96	10 U	0.1 U		1,600	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	260	180 U	180 U	330	180 J	440 J	330
SPU	EWWS13-100209	Trap SD	S Lander St CSO/SD	10/2/2009	4.86	10 U	0.13		800	240 J	250 J	380	1,600	4,900	3,000	7,800	3,100	690	300 U	5,200	390	3,400 J	1,900	2,400	32,090 J	3,600 J
SPU	CB57-030305	CB SD	S Lander St CSO/SD	3/3/2005	6.91	10	0.11		557	160 U	160 U	160 U	290	370	320	970	600	160 U	160 U	1,100	160 U	250	460	760	4,660	460
SPU	CB61-031805	CB SD	S Lander St CSO/SD	3/18/2005	9.28	10	0.08		152	340	150 U	150 U	290	220	150 U	600	500	150 U	150 U	980	150 U	150 U	520	640	3,230	680
SPU	RCB164-031309	RCB SD	S Lander St CSO/SD	3/13/2009	7.74 J	10	0.21		443	250 U	250 U	160 J	620	780 J	350 J	2,050 J	1,100	250 UJ	250 U	1,400	250 U	270 J	960	1,600	8,170 J	1,120 J
SPU	EWWS11-100209	Trap SD	S Lander St CSO/SD	10/2/2009	6.22	10	0.28		884	300 J	320 J	220 J	710	1,900	1,600	3,600	2,000	310 J	380 U	3,200	480	1,500 J	1,400	1,600	16,420 J	3,400 J
SPU	CB141-050409	CB SD	Port SD B-37	5/4/2009	9.97	10 U	0.39 J		1,080	640	330 U	190 J	600	440	280 J	1,520	1,700	330 U	330 U	2,500	510	170 J	2,400	2,700	9,910 J	3,310 J
SPU	CB109-111607	CB SD	S Lander St CSO/SD	11/16/2007	13.20	10	0.13		601	150	140 U	140 U	140 U	150	160	760	500	140 U	140 U	660	140 U	140 U	390	620	2,850	390
SPU	CB27-031504	CB CS	Hanford/Lander/Diag CSO	3/15/2004	8.50	10 U	0.1		396	17,000	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	5,400	9,400
SPU	CB54-020905	CB SD	S Lander St CSO/SD	2/9/2005	9.84	10	0.315		964	24,000	710 U	710 U	695	740	760	1,800	1,240	710 U	710 U	2,350	1,450	710 U	3,100	1,950	9,155	23,050
Port	EW10-B26-MH01	Inline sd	Port Nearshore SD	4/20/2010	4.5	10	0.1	0.8	690	25 J	29 U	31	110	150	89	360	270	23 J	29 U	290	29 U	55	95	300	1,650 J	143 J
SPU	CB1-082103	CB CS	Hanford/Lander/Diag CSO	8/21/2003	7.80	10 U	0.3		1,100 J	620 U	620 U	620 U	620 U	620 U	620 U	1,900	710	630	620 U	1,600	620 U	1,100	1,100	1,200	7,140	1,100
SPU	CB20-021204	CB CS	Hanford/Lander/Diag CSO	2/12/2004	10.00	10 U	1.16		754	420	270 U	270 U	270 U	270 U	270 U	660	380	270 U	270 U	670	270 U	270 U	420	600	2,310	940
SPU	CB19-070910	CB CS	Hanford/Lander/Diag CSO	7/9/2010	22.00	10 U	0.31		629	130 J	160 U	160 U	160 U	110 J	200	360	460	160 U	160 U	390	160 U	85 J	220	680	2,285 J	305 J
SPU	CB131-112108	CB SD	S Lander St CSO/SD	11/21/2008	8.05	10	0.29		728	150	78	72 U	470	370	300	1,280	1,200	72 U	72 U	1,600	190	160	1,100	1,700	7,080	1,438 J
SPU	RCB46-082405	RCB SD	S Hinds St CSO/SD	8/24/2005	4.63	10 U	0.05 U		645	120 U	120 U	120 U	150	200	140	490	310	120 U	120 U	610	120 U	120 U	350	440	2,340	350
SPU	EWWS11-040208	Trap SD	S Lander St CSO/SD	4/2/2008	7.18 J	10 UJ	0.3		868	360 U	360 U	190 J	750	930	430	2,270	1,500	360 U	360 U	2,900	360 U	380	1,000	1,900	11,060	1,190 J
SPU	EWWS16G-033009	Inline SD	SW Florida St SD, B-21	3/30/2009	3.60	10	0.12		431	99 U	99 U	160	620	870	430	2,200	1,000	160	99 U	1,300	99 U	400	400	1,600	8,580	560
SPU	MH107-111209	Inline SD	S Hinds St CSO/SD	11/12/2009	7.51	10	0.16 J		1,720	530 J	160 J	255 J	635 J	710 J	415 J	2,350 J	1,550 J	300 UJ	165 J	2,100 J	410 J	295 J	1,550 J	2,950 J	11,005 J	2,485 J
SPU	CB153-111809	CB SD	S Lander St CSO/SD	11/18/2009	7.47	10	0.21		1,590	950	770 U	770 U	770 U	600 J	770 UJ	770 U	1,600	770 UJ	770 U	1,700	770 U	770 UJ	1,300	1,300	5,200 J	1,740 J
SPU	CB65-032205	CB SD	Port SD B-11	3/22/2005	8.70	10	0.27		869	140 U	140 U	140 U	130 J	170	200	660	520	140 U	140 U	800	140 U	140 U	420	550	3,030 J	420
SPU	EWWS14G-050310	Inline SD	S Lander St CSO/SD	5/3/2010	1.45	11	0.05		266	140 U	19 U	15 J	87	140	56	280	150	19	19 U	260	19 U	49	73	140	1,181	88 J
SPU	EWWS14G-092508	Inline SD	S Lander St CSO/SD	9/25/2008	1.74	11	0.08		189	19 U	19 U	32	170	190	55	450	230	19 U	19 U	460	19 U	55	150	300	1,910	182
SPU	CB70-052505	CB SD	Port SD B-13	5/25/2005	10.00	11	0.11		1,880	380 U	380 U	380 U	380 U	380 U	380 U	620	900	380 U	380 U	1,800	380 U	380 U	1,200	940	4,260	1,200
SPU	CB16-020904	CB CS	Hanford/Lander/Diag CSO	2/9/2004	3.95	11	0.785		209	170 U	170 U	170 U	240	210	170 U	480	380	170 U	170 U	525	170 U	170 U	385	565	2,175	385
SPU	CB162-072710	CB CS	Hanford #2 CSO	7/27/2010	11.60	11	0.1	1.2	369	420 U	420 U	420 U	320 J	300 J	420 U	800 J	700	420 U	420 U	950	420 U	420 U	420	940	4,010 J	420
SPU	RCB48-082405	RCB SD	S Lander St CSO/SD	8/24/2005	6.53	11	0.15		450	280 U	280 U	280 U	390	460	280 U	810	770	280 U	280 U	1,800	280 U	280 U	1,300	1,300	5,530	1,300
Port	EW10-B33-MH01	Inline sd	Port Nearshore SD	4/20/2010	4.82	11	0.09	1.1	1,040	15 J	43	130	210	230	110	660	500	24 J	34	1,200	64	71	400	520	3,500 J	680 J
SPU	CB30-043004	CB CS	Hanford/Lander/Diag CSO	4/30/2004	8.22	11	0.84		257	210 U	210 U	250	660	680	320	1,660	1,500	210 U	210 U	2,300	210 U	320	1,200	2,200	9,640	1,450
SPU	CB60-031705	CB SD	S Lander St CSO/SD	3/17/2005	11.10	11	0.08		939	9,800	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,900	1,800 U	1,800 U	3,800	1,800 U	1,800 U	4,200	3,500	9,200	7,300
Port	EW10-B20-MH01	Inline sd	Port Nearshore SD	4/22/2010	6.27	12	0.14	1.9	1,930	94 J	150	110 J	190	120 U	420	1,000	1,000	130	82 J	1,300	85 J	200	620	760	5,000	1,030 J
SPU	CB53-020905	CB SD	S Lander St CSO/SD	2/9/2005	3.63	12	0.1		828	500	150	260	520	530	200	1,100	790	130 U	130 U	2,000	160	230	1,400	1,200	6,570	1,970
SPU	MH30-052505	Inline SD	SW Florida St SD, B-21	5/25/2005	7.33	12	0.12		1,380	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
Port	EW10-B10-MH01	Inline sd	Port Nearshore SD	4/22/2010	6.41	12	0.07	1.2	1,180	91 UJ	91 UJ	72 J	290	210	260	680	690	91 UJ	91 UJ	700	91 UJ	110	200 J	360	3,300	330 J
SPU	RCB133-031408</																									

Table I-1: SW Solids data

Provider	Sample/Locator	Type	Outfall	Sample Date SOS/LAET CSL/2LAET	Total cPAH (µg/kg dw) N/A N/A	Bis(2-ethylhexyl) phthalate (µg/kg dw) 1300 3100	Butyl benzyl phthalate (µg/kg dw) 63 900	di-n-butyl phthalate (µg/kg dw) 1400 5100	1,4-Dichloro- benzene (µg/kg dw) 110 110	2,4 Dimethylphenol (µg/kg dw) 29 29	n-Nitroso- diphenylamine (µg/kg dw) 28 40	Phenol (µg/kg dw) 420 1200	Total PCBs (µg/kg dw) 130 1000	Dioxin/Furan TEQ (ng TEQ/kg dw) N/A N/A
SPU	CB29-040704	CB CS	Hanford/Lander/Diag CSO	4/7/2004	966	63,000	930	1,300	880 U	880 U	880 U	880 U	29 J	
SPU	RCB2-020204	RCB CS	Hanford/Lander/Diag CSO	2/2/2004	291 J	2,900	200	85	79 U	79 U	79 U	160	30	
Port	EW10-B7-CBC01	CB sd	Port Nearshore SD	6/4/2010	573	11,000 J	890	730 J	30 U	30 U	150 U	350 U	31 U	
SPU	RCB28-042104	RCB CS	Hanford/Lander/Diag CSO	4/21/2004	383	4,100	290	190 U	190 U	190 U	190 U	190 U	36	
Port	EW10-B7-MH01	Inline sd	Port Nearshore SD	4/22/2010	120	980	820	40 U	6.1 U	6.1 U	30 U	40 UJ	40	
SPU	MH102-031309	Inline SD	S Lander St CSO/SD	3/13/2009	1,247 J	7,900	550	340 J	48 U	48 U	48 U	59	50	
SPU	EWWS4-100209	Trap SD	S Lander St CSO/SD	10/2/2009	12,073 J	8,300	190 U	230	190 U	190 U	190 U	190 U	53	
SPU	CB68-042805	CB SD	Port SD, B-7	4/28/2005	163	8,800	1,000 J	3,700 U	180 U	180 U	180 U	250 U	67	
SPU	EWWS3-100209	Trap SD	S Lander St CSO/SD	10/2/2009	6,487 J	9,800	570	250 J	300 U	300 U	300 U	300 U	74	
SPU	CB57-030305	CB SD	S Lander St CSO/SD	3/3/2005	559	15,000	930	220	160 U	160 U	160 U	160 U	76	
SPU	CB61-031805	CB SD	S Lander St CSO/SD	3/18/2005	352	7,500	390	1,400	150 U	150 U	150 U	150 U	87	
SPU	RCB164-031309	RCB SD	S Lander St CSO/SD	3/13/2009	1,135 J	12,000	250 U	210 J	250 U	250 U	250 U	190 J	106	
SPU	EWWS1-100209	Trap SD	S Lander St CSO/SD	10/2/2009	2,625 J	14,000	520	400	380 U	380 U	380 U	380 U	120	
SPU	CB141-050409	CB SD	Port SD B-37	5/4/2009	752 J	16,000	380	330 U	330 U	330 U	330 U	400	131 J	
SPU	CB109-111607	CB SD	S Lander St CSO/SD	11/16/2007	273	18,000	250	470	140 U	140 U	140 U	140 U	139	
SPU	CB27-031504	CB CS	Hanford/Lander/Diag CSO	3/15/2004	1,901	33,000	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	141	
SPU	CB54-020905	CB SD	S Lander St CSO/SD	2/9/2005	1,159	21,500	1,500	710 U	710 U	710 U	710 U	710 U	144 J	
Port	EW10-B26-MH01	Inline sd	Port Nearshore SD	4/20/2010	214	1,200	100	29 U	19 U	19 U	93 U	29 U	160	
SPU	CB1-082103	CB CS	Hanford/Lander/Diag CSO	8/21/2003	931	19,000 B	1,900 J	5,400 J	620 U	620 U	620 U	650	160	
SPU	CB20-021204	CB CS	Hanford/Lander/Diag CSO	2/12/2004	286	99,000	1,800	470	270 U	270 U	270 U	270 U	194	
SPU	CB19-070910	CB CS	Hanford/Lander/Diag CSO	7/9/2010	199 J	30,000	910	440	160 U	160 U	160 U	170	210 J	
SPU	CB131-112108	CB SD	S Lander St CSO/SD	11/21/2008	587	48,000 B	2,400	530	72 U	72 U	360 U	140	213	
SPU	RCB46-082405	RCB SD	S Hinds St CSO/SD	8/24/2005	297	3,000 B	400	120 U	120 U	120 U	120 U	120 U	250	
SPU	EWWS1-040208	Trap SD	S Lander St CSO/SD	4/2/2008	1,357	19,000	430 J	370	360 U	360 U	360 U	290 J	278	
SPU	EWWS6G-033009	Inline SD	SW Florida St SD, B-21	3/30/2009	1,266	3,600	170	99 U	99 U	99 U	99 U	99 U	300	
SPU	MH107-111209	Inline SD	S Hinds St CSO/SD	11/12/2009	1,113 J	47,000	300 U	390 J	300 U	300 U	320 U	385	705	
SPU	CB153-111809	CB SD	S Lander St CSO/SD	11/18/2009	924 J	70,000	14,000	2,600	770 U	770 UJ	770 U	1,000	1,120	
SPU	CB65-032205	CB SD	Port SD B-11	3/22/2005	289 J	19,000	1,100	560	140 U	140 U	140 U	590 B	2,110	
SPU	EWWS4G-050310	Inline SD	S Lander St CSO/SD	5/3/2010	191	810	19 U	35	19 U	19 U	19 U	19 U	19 U	
SPU	EWWS4G-092508	Inline SD	S Lander St CSO/SD	9/25/2008	264	530	19 U	19 U	19 U	19 U	19 U	19 U	20 U	
SPU	CB70-052505	CB SD	Port SD B-13	5/25/2005	394	11,000	2,300	410 U	380 U	380 U	380 U	380 U	44	
SPU	CB16-020904	CB CS	Hanford/Lander/Diag CSO	2/9/2004	257	14,000	395	180	170 U	170 U	170 U	170 U	55	
SPU	CB162-072710	CB CS	Hanford #2 CSO	7/27/2010	524 J	10,000	420 U	420 U	420 U	420 U	420 U	420 U	67	
SPU	RCB48-082405	RCB SD	S Lander St CSO/SD	8/24/2005	672	10,000 B	1,300	280 U	280 U	280 U	280 U	280 U	120 J	
Port	EW10-B33-MH01	Inline sd	Port Nearshore SD	4/20/2010	339	1,800	1,300	47	18 U	18 U	90 U	28 U	170	
SPU	CB30-043004	CB CS	Hanford/Lander/Diag CSO	4/30/2004	1,001	11,000	520	210 U	210 U	210 U	210 U	210 U	259	
SPU	CB60-031705	CB SD	S Lander St CSO/SD	3/17/2005	1,639	160,000	34,000	2,300	1,800 U	1,800 U	1,800 U	1,800 U	320 Y	
Port	EW10-B20-MH01	Inline sd	Port Nearshore SD	4/22/2010	261	6,700	2,900	210	6.4 U	6.4 U	32 U	120 U	170	26.1
SPU	CB53-020905	CB SD	S Lander St CSO/SD	2/9/2005	749	14,000	780	820	130 U	130 U	130 U	3,100	51	
SPU	MH30-052505	Inline SD	SW Florida St SD, B-21	5/25/2005	1,267	5,600	7,000	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	88	
Port	EW10-B10-MH01	Inline sd	Port Nearshore SD	4/22/2010	343	11,000	2,500	91 UJ	6	6 U	30 U	91 UJ	450	
SPU	RCB133-031408	Inline SD	SW Spokane St SD, B-4	3/14/2008	1,237 J	45,000	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	376	
SPU	RCB135-031408	Inline SD	S Spokane St SD, B-36	3/14/2008	1,015 J	33,000	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	285	
SPU	CB122-070208	CB SD	S Lander St CSO/SD	7/2/2008	317 J	47,000	19,000	800	320 U	320 U	320 U	320 U	98 U	
SPU	CB66-032505	CB SD	Port SD B-37	3/25/2005	1,033 J	22,000	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,300 U	140 Y	
SPU	CB152-111809	CB SD	S Lander St CSO/SD	11/18/2009	253 J	21,000	2,700 J	380	280 U	280 UJ	280 U	150 J	460	
Port	EW08-B32-CB05	CB sd	Port Nearshore SD	12/9/2008									670 J	
SPU	RCB47-082405	RCB SD	S Lander St CSO/SD	8/24/2005	348	5,100 B	1,300	390	160 U	160 U	160 U	160 U	210	
Port	EW10-B12-MH01	Inline sd	Port Nearshore SD	4/22/2010	156	7,100	1,100	100	100 UJ	100 UJ	500 UJ	100 UJ	430	
SPU	MH109-111209	Inline SD	S Hinds St CSO/SD	11/12/2009	1,578 J	3,800	60 U	260 J	60 U	60 U	60 UJ	110	208	
SPU	EWWS2-033009	Trap SD	S Lander St CSO/SD	3/30/2009	1,069 J	13,000	620	210	180 U	180 U	180 U	190	20 U	
Port	EW10-B1-MH01	Inline sd	Port Nearshore SD	4/22/2010	667	11,000	250 J	120	6.1 U	6.1 U	30 U	73 U	260	148 J
Port	EW10-B31-MH01	Inline sd	Port Nearshore SD	4/20/2010	552	4,300	1,200	92	18 U	18 U	90 U	25 U	103	
SPU	EWWS6G-100209	Inline SD	SW Florida St SD, B-21	10/2/2009	4,181	4,500	140 U	94 J	140 U	140 U	140 U	140 U	510	
Port	EW08-B32-CB02	CB sd	Port Nearshore SD	12/9/2008									59 J	
SPU	CB30-091610	CB CS	Hanford/Lander/Diag CSO	9/16/2010	1,246 J	570,000 B	110 U	110 U	110 U	110 U	110 U	290 U	440	
Port	EW10-B22-MH01	Inline sd	Port Nearshore SD	4/22/2010	118	1,600	23,000	51 U	18 U	18 U	90 U	51 U	31 U	6.65 J
SPU	MH113-050310	Inline SD	S Hinds St CSO/SD	5/3/2010	330 J	9,000	270 U	400	270 U	270 U	270 U	270 U	260	81.9 J
SPU	EWWS1-033009	Trap SD	S Lander St CSO/SD	3/30/2009	1,345	20,000	650	450	240 U	240 U	240 U	300	20 U	
Port	EW08-B32-CB04	CB sd	Port Nearshore SD	12/9/2008									20 U	
SPU	EWWS1-092508	Trap SD	S Lander St CSO/SD	9/25/2008	1,381	17,000	870	1,600	85 U	85 U	85 U	130	31	
Port	EW10-B19-MH01	Inline sd	Port Nearshore SD	4/22/2010	88	1,400	940	39 U	6.1 U	6.1 U	30 U	39 U	32 U	
Port	EW10-B29-MH01	Inline sd	Port Nearshore SD	6/3/2010	579	3,000	130	53 J	6.4 J	5.8 U	29 U	58 U	32 U	
SPU	EWWS2-092508	Trap SD	S Lander St CSO/SD	9/25/2008	828	9,600	560	930	200 U	200 U	200 U	200 U	32	
SPU	EWWS3-092508	Trap SD	S Lander St CSO/SD	9/25/2008									41	
SPU	RCB150-091608	RCB SD	S Lander St CSO/SD	9/16/2008	1,975	12,000 UJ	280 U	270 U	270 U	270 U	270 U	270 U	53	
SPU	CB27-032604	CB CS	Hanford/Lander/Diag CSO	3/26/2004	2,760	140,000	9,000	2,800 U	2,800 U	2,800 U	2,800 U	3,700	68 J	
Port	EW10-B32-MH01	Inline sd	Port Nearshore SD	4/20/2010	209	5,200	610	23 J	18 U	18 U	92 U	25 U	93	
SPU	CB9-012204	CB CS	Hanford/Lander/Diag CSO	1/22/2004	278	2,200	410	40 U	40 U	40 U	40 U	89 U	97	

Table I-1: SW Solids data

Provider	Sample/Locator	Type	Outfall	Sample Date SQS/LAET CSL/2LAET	TOC (%)	Arsenic (mg/kg dw) 57 93	Mercury (mg/kg dw) 0.41 0.59	Cadmium (mg/kg dw) 5.1 6.7	Zinc (mg/kg dw) 410 960	2-Methyl- naphthalene (µg/kg dw) 670 670	Acenaphthene (µg/kg dw) 500 500	Anthracene (µg/kg dw) 960 960	Benzo(a) anthracene (µg/kg dw) 1300 1600	Benzo(a) pyrene (µg/kg dw) 1600 1600	Benzo(g,h,i) perylene (µg/kg dw) 670 720	Total Benzo- fluoranthenes (µg/kg dw) 3200 3600	Chrysene (µg/kg dw) 1400 2800	Dibenzo(a,h) anthracene (µg/kg dw) 230 230	Dibenzo- furan (µg/kg dw) 540 540	Fluoranthene (µg/kg dw) 1700 2500	Fluorene (µg/kg dw) 540 540	Indeno (1,2,3-cd) pyrene (µg/kg dw) 600 690	Phenanthrene (µg/kg dw) 1500 1500	Pyrene (µg/kg dw) 2600 3300	Total HPAH (µg/kg dw) 12000 17000	Total LPAH (µg/kg dw) 5200 5220
Port	EW08-B32-CB-	CB sd	Port Nearshore SD	12/9/2008	2.43	20 U	2.57	6.4	2,190	52 J	81	230	110	750	450	910	1,200	87	66 J	1,400	130	150	750	1,400	6,500	1,320 J
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U	0.6	2.4	2,270 J																	
Port	EW08-B32-CB01	CB sd	Port Nearshore SD	12/9/2008	9.07	20 U																				

Table I-2: CSO Solids Data

Provider	Sample/Locator	Type	Outfall	Sample Date 2LAET 2 x 2LAET	TOC (%)	Arsenic (mg/kg dw) 93 186	Mercury (mg/kg dw) 0.59 1.18	Cadmium (mg/kg dw) 6.70 13.4	Zinc (mg/kg dw) 960 1920	2-Methyl- naphthalene (µg/kg dw) 670 1340	Acenaphthene (µg/kg dw) 500 1000	Anthracene (µg/kg dw) 960 1920	Benzo(a) anthracene (µg/kg dw) 1600 3200	Benzo(a)pyrene (µg/kg dw) 1600 3200	Benzo(g,h,i) perylene (µg/kg dw) 720 1440	Total Benzo- fluoranthenes (µg/kg dw) 3600 7200	Chrysene (µg/kg dw) 2800 5600	Dibenzo(a,h) anthracene (µg/kg dw) 230 460	Dibenzofuran (µg/kg dw) 540 1080	Fluoranthene (µg/kg dw) 2500 5000	Fluorene (µg/kg dw) 540 1080	Indeno (1,2,3-cd) pyrene (µg/kg dw) 690 1380
KC	A00807	Inline cs	Lander CSO/SD	8/20/2008	0.55	2.00 J	0.13 J	0.56	140	480 U	120 U	180 U	180 U	300 U	300 U	300 U	180 U	480 U	300 U	180 U	180 U	300 U
KC	A00916	Inline cs	Hanford #2 CSO	9/2/2009																		
KC	A00816	Inline cs	Hanford #2 CSO	9/1/2009	1.06	5.30 J	1.07 J	0.60 J	238	26 U	26 U	28	128	121	75.9	104	151	27	26 U	228	34	67.8
KC	A00807	Inline cs	Lander CSO/SD	10/14/2009	0.42	1.82	0.13	0.53 J	198	5.31	2.3 U	8.66	41.5	41.7	22.4	31.06	37	9.35	2.3 U	44.6	2.5	20.4
KC	A00921	Inline cs	Hanford #2 CSO	9/3/2009	0.85	2.00 J	0.15 J	0.65	238	26 U	26 U	26 U	79.4	73.4	47	47	80.1	26 U	26 U	145	26 U	43
KC	A00806	Inline cs	Lander CSO/SD	8/20/2008	1.40	1.60 J	0.08 J	0.56 J	147	500 U	130 U	190 U	190 U	310 U	310 U	310 U	190 U	500 U	310 U	190 U	190 U	310 U
KC	A00931	Inline cs	Lander CSO/SD	10/15/2009	0.31	2.28	0.26	0.20 J	141	4.9	3	42.9	255	208	108	151	196	42.3	2.6	294	6.42	109
KC	A00806	Inline cs	Lander CSO/SD	10/14/2009	1.96	1.88	0.25	1.35	216	17.7	32.3	68.1	268	285	134	202	247	55.6	17.8	370	29.8	147
KC	ST805-L3-1	Trap cs	Hanford #2 CSO	2/19/2010	16.20 J	9.50 J	1.20 J	2.42	653													
KC	A00932	Inline cs	Hanford #2 CSO	10/13/2009	6.51	1.34	0.10 J	0.36 J	193	40 U	40 U	48	143	138	40 U	48	142	40 U	40 U	124	40 U	40 U
KC	ST805-L2-1	Trap cs	Hanford #2 CSO	2/19/2010	17.30 J	9.80 J	1.24 J	2.67	632	920 U	920 U	920 U	920 U	920 U	1,000	1,000 U	950	920 U	920 U	1,200	920 U	920 U
KC	A00922	Inline cs	Hanford #2 CSO	9/3/2009	0.95	2.50 J	0.26 J	0.32 J	158	25 U	25 U	46	256	211	89.8	136	240	43	29	529	53.2	93.5
KC	A00917	Inline cs	Hanford #2 CSO	9/2/2009	1.28					23 U	114	102	321	268	155	257	293	58.4	40	602	81.7	144
KC	A00920	Inline cs	Hanford #2 CSO	9/2/2009	1.77	8.62 J	1.32 J	6.16	677	38	28 U	85	229	218	131	216	232	47	28 U	405	50	117
KC	A00817	Inline cs	Hanford #2 CSO	9/1/2009	0.98	6.00 J	0.75 J	3.50	937	30	26 U	36	133	133	92.6	129	137	34	26 U	254	35	102
KC	A00802	Inline cs	Hanford #2 CSO	8/20/2008	2.01	2.50 J	0.66	0.77	234	590 U	150 U	220 U	260	370 U	370 U	370 U	260	590 U	370 U	504	220 U	370 U
KC	A00803	Inline cs	Hanford #2 CSO	9/1/2009	0.96	8.51 J	0.38 J	0.60 J	290	79.1	82.5	261	551	475	205	466	482	76.4	64.9	1,050	135	206
KC	ST805-L1-1	Trap cs	Hanford #2 CSO	4/23/2009	16.10 J	7.30 J	1.82 J	1.32	582	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	1,300	810 U	810 U
KC	A00805	Inline cs	Hanford #2 CSO	9/1/2009	3.39	5.20 J	0.26 J	0.80 J	352	59	46	100	362	318	178	278	349	56	33 U	660	62	172
KC	A00805	Inline cs	Hanford #2 CSO	9/1/2009	3.91	6.50 J		1.58	368	57	46	84.1	180	182	111	195	180	32 U	32 U	389	63.8	117
KC	ST805-L1-3	Trap cs	Hanford #2 CSO	2/19/2010	19.30	7.80 J	0.67 J	1.70 J	587 J	180 U	180 U	180 U	460	427	439	439	648	180 U	180 U	972	180 U	330
KC	A00905	Inline cs	Hanford #2 CSO	9/2/2009	3.22	4.60 J	0.27 J	1.48	1,720	154	97.4	378	1,400	1,190	625	1,003	1,230	247	61	2,590	153	593
KC	A00802	Inline cs	Hanford #2 CSO	9/1/2009	3.82	3.30 J	11.23 J	0.67 J	301	70.6	33 U	145	547	492	255	400	462	135	33 U	928	68.1	248
SPU	MH106-111209	Inline CS	S Hinds St CSO/SD	11/12/2009	5.56	9.00	0.43 J		946	120 U	120 J	580	1,400	1,600	340 J	3,000	2,100	120 U	64 J	3,600	260	290 J
KC	A00805	Inline cs	Hanford #2 CSO	8/20/2008	1.47	2.70 J	0.89 J	0.64 J	328	620 U	160 U	230 U	330	390 U	390 U	390 U	370	620 U	390 U	637	230 U	390 U
KC	A00904	Inline cs	Hanford #2 CSO	9/2/2009	3.03	19.00	2.25 J	3.18	766	437	79.3	174	397	344	201	375	399	74.7	63.2	820	125	178
SPU	MH115-052510	Inline CS	Hanford #2 CSO	5/25/2010	2.36	32.00	9.20	9.30	580	92 J	400	500	1,600	1,600	1,300	3,000	2,100	530	220	4,500	360	1,100
KC	A00818	Inline cs	Hanford #2 CSO	10/14/2009	2.63	6.93 J	0.77	3.13	2,520	118	640	1,630	5,650	5,730	2,610	4,240 J	5,900	1,240	174	7,010	487	2,820
KC	A00803	Inline cs	Hanford #2 CSO	8/20/2008	1.09	4.50 J	0.16 J	0.68	216	500 U	130 U	190 U	240	310 U	310 U	310 U	230	500 U	310 U	350	190 U	310 U
KC	A00918	Inline cs	Hanford #2 CSO	9/1/2009	0.81	9.73	16.69	4.78	855	103	421	1,100	1,960	1,490	696	1,796	1,700	331	215	4,090	413	685
KC	A00918	Inline cs	Hanford #2 CSO	9/1/2009	1.17	12.30		3.89	884	77.5	468	1,100	2,400	2,000	952	2,052	2,240	397	232	5,050	440	934
SPU	MH114-050610	Inline CS	Hanford #2 CSO	5/6/2010	3.91	80.00	6.60	13.60	1,600	130	630	1,300	3,100 J	3,800	1,100	7,200	3,900 J	540	250	13,000	540	1,300
KC	A00929	Inline cs	Hanford #2 CSO	10/13/2009	3.70																	
KC	A00709	Inline cs	Hanford #2 CSO	10/13/2009	12.10																	
KC	A00903	Inline cs	Hanford #2 CSO	9/2/2009	16.10	7.80 U	0.33 J	0.71 J	269	130 U	130 U	391	190	200	130 U	391	180	130 U	130 U	316	130 U	130 U
KC	A00806	Inline cs	Lander CSO/SD	6/16/2008		1.50 U	0.21 J	0.80 J	176 J													
KC	A00918	Inline cs	Hanford #2 CSO	9/2/2009			4.83 J															
KC	A01009	Inline cs	Hanford #2 CSO	8/10/2010		5.60 J	0.06 J	1.35	365													
KC	A01010	Inline cs	Hanford #2 CSO	8/10/2010		3.60 J	0.30 J	1.05	398													
KC	A01011	Inline cs	Hanford #2 CSO	8/10/2010		2.00 J	0.02 J	0.16 J	132													

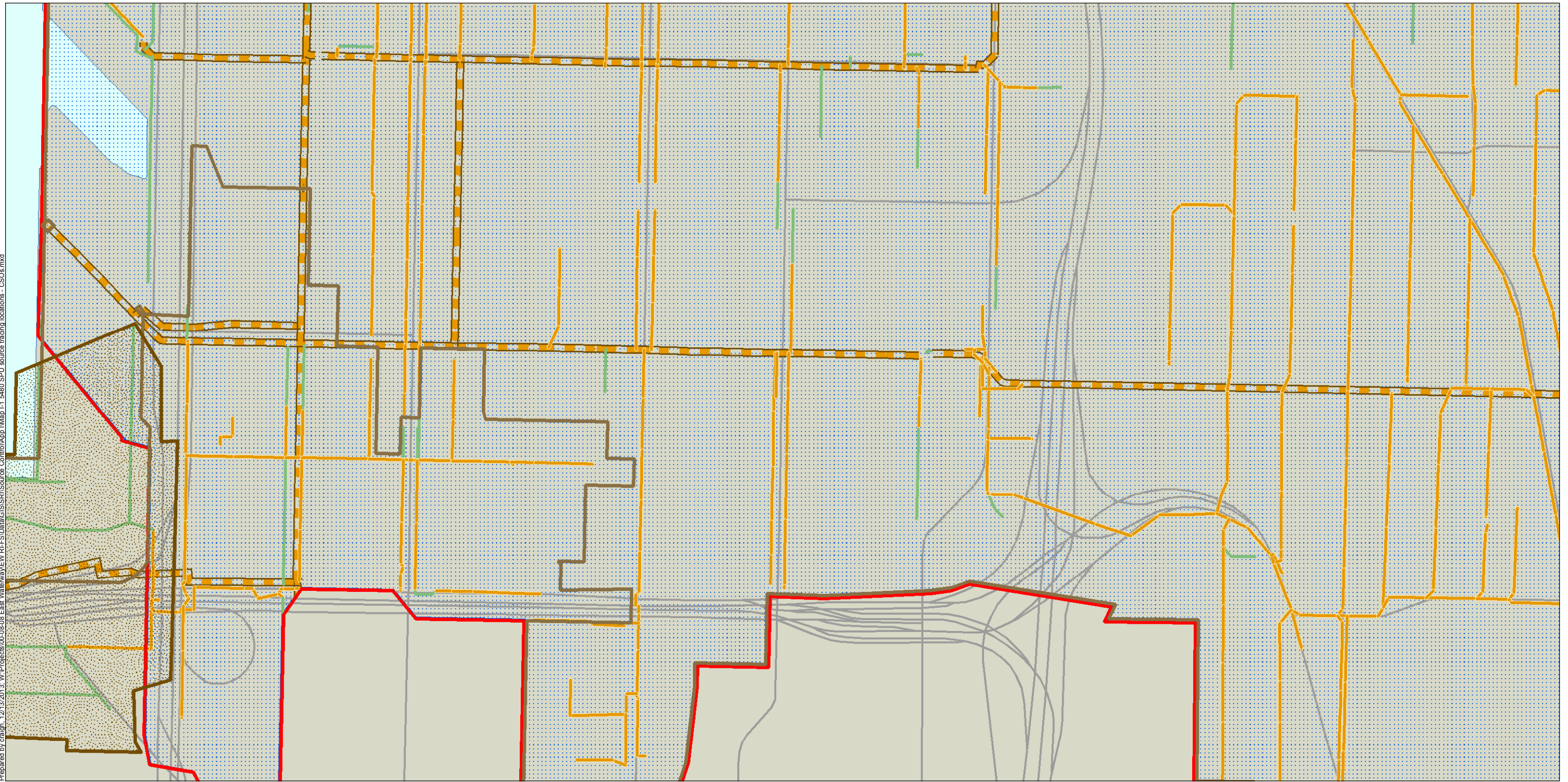
Table I-2: CSO Solids Data

Provider	Sample/Locator	Type	Outfall	Sample Date 2LAET 2 x 2LAET	Phenanthrene	Pyrene	Total HPAH	Total LPAH	Total cPAH	Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	di-n-butyl phthalate	1,4-Dichloro-benzene (µg/kg dw)	2,4 Dimethylphenol (µg/kg dw)	n-Nitroso-diphenylamine (µg/kg dw)	Phenol (µg/kg dw)	Total PCBs (µg/kg dw)	Dioxin/ Furan TEQ (ng TEQ/kg dw)
					1500 3000	3300 6600	17000 34000	5200 10400	3100 6200	900 1800	5100 10200	110 220	29 58	40 80	1200 2400	1000 2000		
KC	A00807	Inline cs	Lander CSO/SD	8/20/2008	180 U	180 U	480 U	480 U	319 U	932	180 U	300 U	385	300 U	300 U	1,200 U	2.8	
KC	A00916	Inline cs	Hanford #2 CSO	9/2/2009														4.2 J
KC	A00816	Inline cs	Hanford #2 CSO	9/1/2009	146	250	1,295	208	177	992	107	52 U	121	13 U	52 U	52 U	4.5 J	
KC	A00807	Inline cs	Lander CSO/SD	10/14/2009	40.3	88.5	377	57.66	59.2	796	55.6	26.9 U	233	1.1 U	4.6 U	4.6 U	4.6 U	
KC	A00921	Inline cs	Hanford #2 CSO	9/3/2009	75.3	134	775	75.3	109	2,970	599	56	492	13 U	52 U	52 U	5.2 U	
KC	A00806	Inline cs	Lander CSO/SD	8/20/2008	190 U	190 U	500 U	500 U	331 U	778	190 U	310 U	1,080	310 U	310 U	1,300 U	5.53	
KC	A00931	Inline cs	Lander CSO/SD	10/15/2009	158	578	2,197	218	304	388	55	13.3 U	91.6	1.2 U	4.7 U	4.7 U	11.3	0.8
KC	A00806	Inline cs	Lander CSO/SD	10/14/2009	421	813	2,793	573	399	1,930	352	65.8	643	1.4 U	5.4 U	71.7	19.2	2.8
KC	ST805-L3-1	Trap cs	Hanford #2 CSO	2/19/2010														42 U
KC	A00932	Inline cs	Hanford #2 CSO	10/13/2009	150	426	1,226	198	189	1,650	40 U	392	2,420	20 U	79 U	406	45.9	
KC	ST805-L2-1	Trap cs	Hanford #2 CSO	2/19/2010	1,600	1,500	4,650	1,600	838	32,800	1,200	1,800 U	3,680	460 U	1,800 U	1,800 U	46 U	47.1
KC	A00922	Inline cs	Hanford #2 CSO	9/3/2009	434	444	2,299	533	305	1,190	196	124	130	13 U	51 U	51 U	82 J	
KC	A00917	Inline cs	Hanford #2 CSO	9/2/2009	364	594	2,952	662	392	1,490	286	135	56.8	34.7	47 U	47 U	83.26 J	
KC	A00920	Inline cs	Hanford #2 CSO	9/2/2009	225	456	2,262	391	316	3,660	303	67	284	14 U	56 U	1,910	130 J	
KC	A00817	Inline cs	Hanford #2 CSO	9/1/2009	108	222	1,437	179	204	2,370	591	52 U	1,370,000	13 U	52 U	1,550	152 J	
KC	A00802	Inline cs	Hanford #2 CSO	8/20/2008	449	449	1,473	449	409	3,800	622	370 U	290	370 U	370 U	1,500 U	176 J	
KC	A00803	Inline cs	Hanford #2 CSO	9/1/2009	971	1,050	4,861	1,591	663	1,640	234	52 U	547	13 U	52 U	52 U	234 J	
KC	ST805-L1-1	Trap cs	Hanford #2 CSO	4/23/2009	1,000	990	2,290	1,000	733 U	28,100	1,300	1,600 U	628	410 U	1,600 U	1,600 U	261	
KC	A00805	Inline cs	Hanford #2 CSO	9/1/2009	383	614	3,272	627	454	3,470	632	288	8,070	16 U	65 U	93	287 J	12.4 J
KC	A00805	Inline cs	Hanford #2 CSO	9/1/2009	293	380	1,892	533	255	3,640	909	383	9,090	16 U	64 U	120	288 J	
KC	ST805-L1-3	Trap cs	Hanford #2 CSO	2/19/2010	1,080	1,150 J	5,494 J	1,080	655	26,800 J	2,600 J	905	60,900	89 U	360 U	360 U	348	
KC	A00905	Inline cs	Hanford #2 CSO	9/2/2009	1,360	2,330	12,405	1,988	1,720	3,070	370	3,340	1,520	17 U	68 U	441	466 J	
KC	A00802	Inline cs	Hanford #2 CSO	9/1/2009	493	830	4,778	706	718	2,880	569	165	52,900	16 U	65 U	110	741 J	
SPU	MH106-111209	Inline CS	S Hinds St CSO/SD	11/12/2009	1,400	1,200	13,530 J	2,360 J	2,114 J	5,400	330	120 U	190	120 U	400 U	290	850	
KC	A00805	Inline cs	Hanford #2 CSO	8/20/2008	423	612	1,949	423	437	2,630	429	390 U	230	390 U	390 U	1,600 U	1,068	
KC	A00904	Inline cs	Hanford #2 CSO	9/2/2009	562	702	3,832	1,097	507	4,380	289	100	2,680,000	15 U	61 U	7,660	1,104	
SPU	MH115-052510	Inline CS	Hanford #2 CSO	5/25/2010	3,300	2,900	18,630	4,635 J	2,403	1,400	230	70 J	100 U	100 U	100 U	100 U	1,470	
KC	A00818	Inline cs	Hanford #2 CSO	10/14/2009	7,040	11,000	51,400	9,929	8,076	6,890	969	74	87.5 J	16 U	63 U	63 U	1,640	
KC	A00803	Inline cs	Hanford #2 CSO	8/20/2008	270	334	1,154	270	347	2,030	300	310 U	415	310 U	310 U	1,300 U	7,150	
KC	A00918	Inline cs	Hanford #2 CSO	9/1/2009	3,650	3,960	17,332	5,704	2,146	996	232	74	390	12 U	50 U	63	12,063 J	
KC	A00918	Inline cs	Hanford #2 CSO	9/1/2009	4,120	4,950	22,163	6,215	2,839	1,310	448	70	56.1	13 U	51 U	51	36,650 J	
SPU	MH114-050610	Inline CS	Hanford #2 CSO	5/6/2010	5,500	4,300 J	38,240 J	8,250	5,215 J	1,500 J	850 J	570	57 J	91 U	91 U	64 J	41,300	
KC	A00929	Inline cs	Hanford #2 CSO	10/13/2009													177,700	
KC	A00709	Inline cs	Hanford #2 CSO	10/13/2009													347,030 J	
KC	A00903	Inline cs	Hanford #2 CSO	9/2/2009	220	338	1,683	611	299	5,220	1,180	470	44,500,000	65 U	260 U	87,700		
KC	A00806	Inline cs	Lander CSO/SD	6/16/2008														
KC	A00918	Inline cs	Hanford #2 CSO	9/2/2009														
KC	A01009	Inline cs	Hanford #2 CSO	8/10/2010														
KC	A01010	Inline cs	Hanford #2 CSO	8/10/2010														
KC	A01011	Inline cs	Hanford #2 CSO	8/10/2010														

U Not detected at given concentration
 J Estimated concentration
 UJ Not detected at given estimated concentration

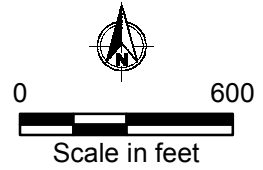
Detected Concentration
 Concentration exceeds 2LAET
 Concentration exceeds 2 x 2LAET

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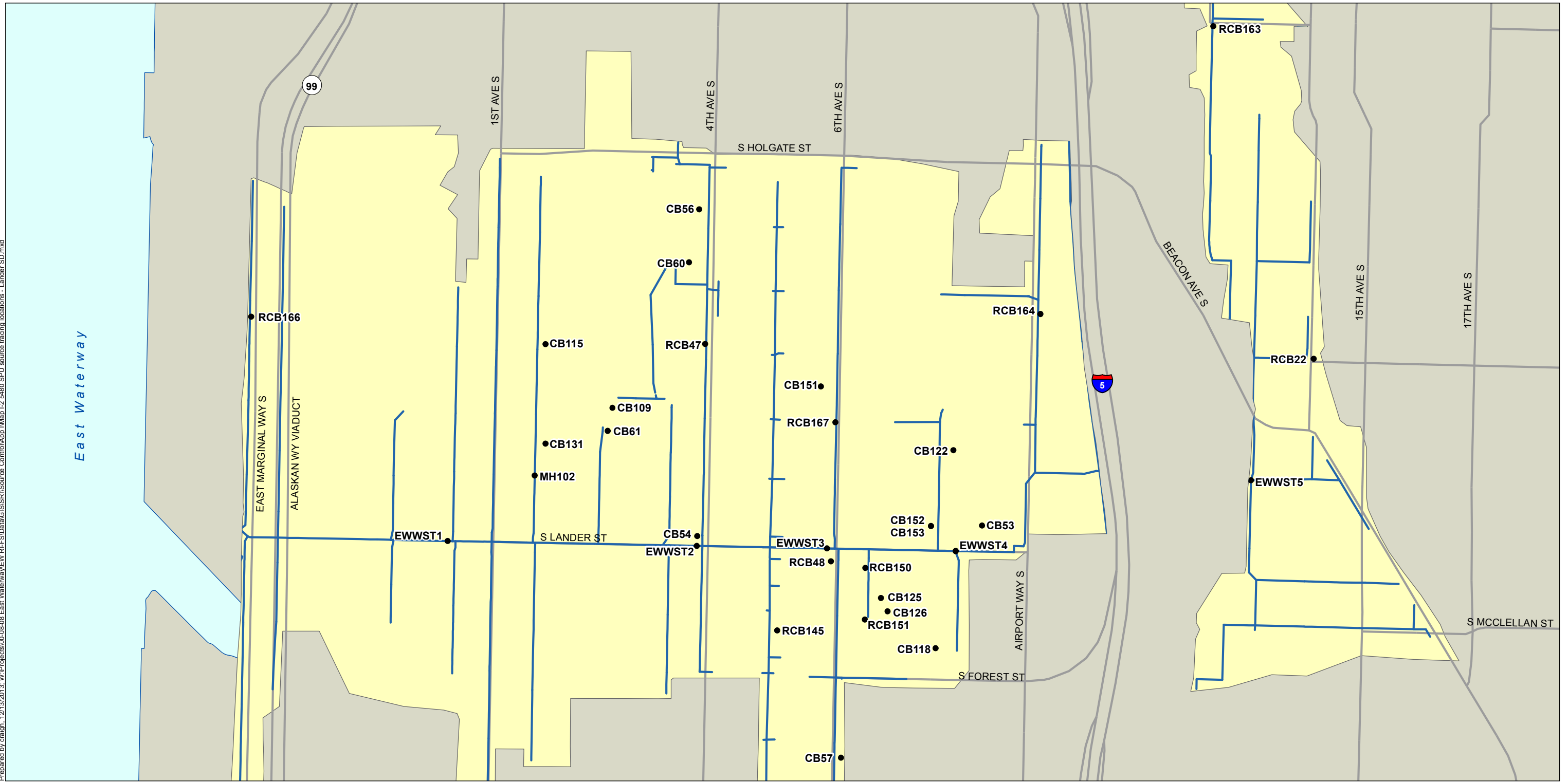
• Source Tracing Location ^a	Utilities
CSO Basins	— Sanitary Sewer
[Blue Dotted Pattern] Combined Sewer Service Area	— Combined Sewer
[Brown Dotted Pattern] S Hinds CSO	— KC-WTD Conveyance
[Light Brown Dotted Pattern] Lander CSO	— Road
[Red Outline] Hanford #2 CSO	

^a If ID has CB or RCB at beginning, sample represents storm drain solids inputs to the combined sewer system.

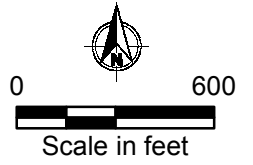


Map I-1
Source Tracing Locations: CSO Basin Samples
Supplemental Remedial Investigation
East Waterway Study Area

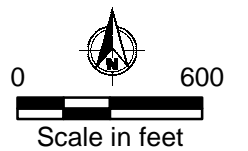
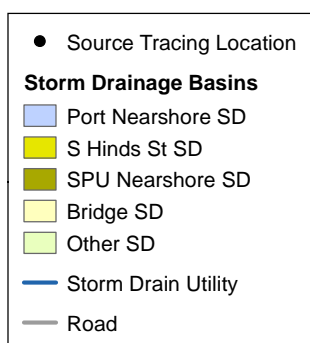
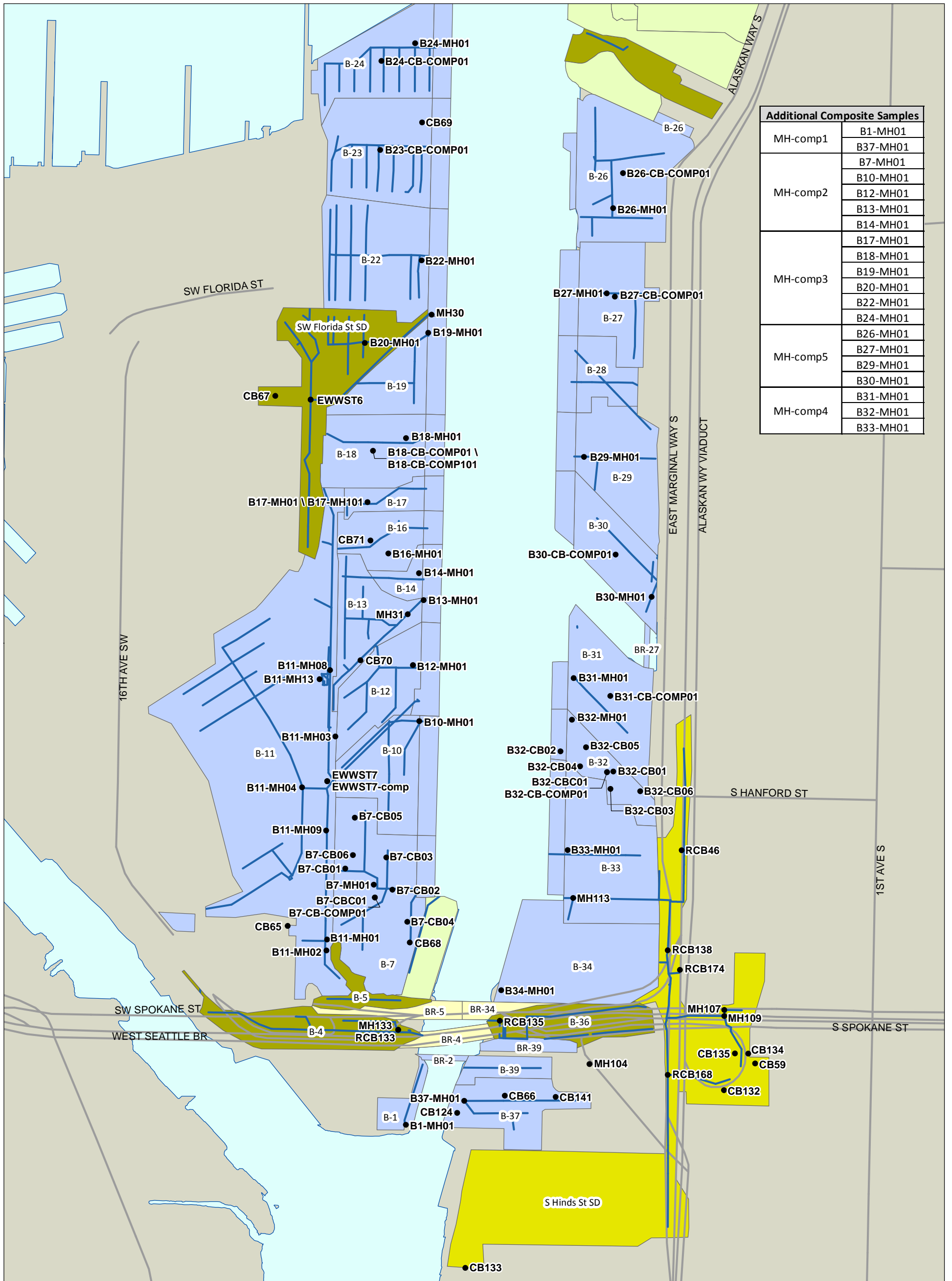
Prepared by craigh_12/13/2013, W:\Projects\00-08-08-East Waterway\NEW\RFI\FSD\GIS\Source Control\Map I-2 5480.SPU source tracing locations - Lander SD.mxd



- Source Tracing Location
- S Lander St SD Basin
- Storm Drain Utility
- Road



Map I-2
Source Tracing Locations: S Lander St. SD Basin
Supplemental Remedial Investigation
East Waterway Study Area



Map I-3
Source Tracing Locations: Nearshore SD, S. Hinds St. SD, and Bridge Basins
Supplemental Remedial Investigation
East Waterway Study Area