

APPENDIX K

COMPILED SOURCE CONTROL MAPS

Appendix K –

Compiled Source Control Maps

Introduction:

This appendix compiles selected source tracing data for all storm drain basins and portions of the combined sewer overflow basins where site-specific source tracing has been conducted (e.g., Lander, Hanford, and Hinds CSO basins) in the EW. The following information is provided on a series of maps:

- Second-lowest apparent effect threshold (2LAET) exceedances in source tracing samples for arsenic, mercury, PCBs, and HPAH
- Locations of reported spills, as described in Section 9.3.7 and listed in Appendix E, Spill Documentation, compiled from state and federal environmental databases, as described in Section 9.3.6.1. Numbers displayed on the maps correspond to the site numbers listed in Table G-1.
- King County Industrial Waste Program (KCIW) Inspections that have an active Waste Discharge Permit or Discharge Authorization (Minor or Major) located within East Waterway Basin CSO basins that were inspected by KCIW during 2003–2012. These companies were inspected and permitted by KCIW in accordance with the program’s mission to protect the wastewater collection system, treatment plants, the quality of biosolids produced, wastewater personnel, and the environment (see Appendix L for more information).
- SPU high-priority business inspections, as described in Section 9.3.4.3.
- Port Environmental Compliance Assessment Program site visits, as described in Section 9.3.4.4.

Maps are developed for the following areas:

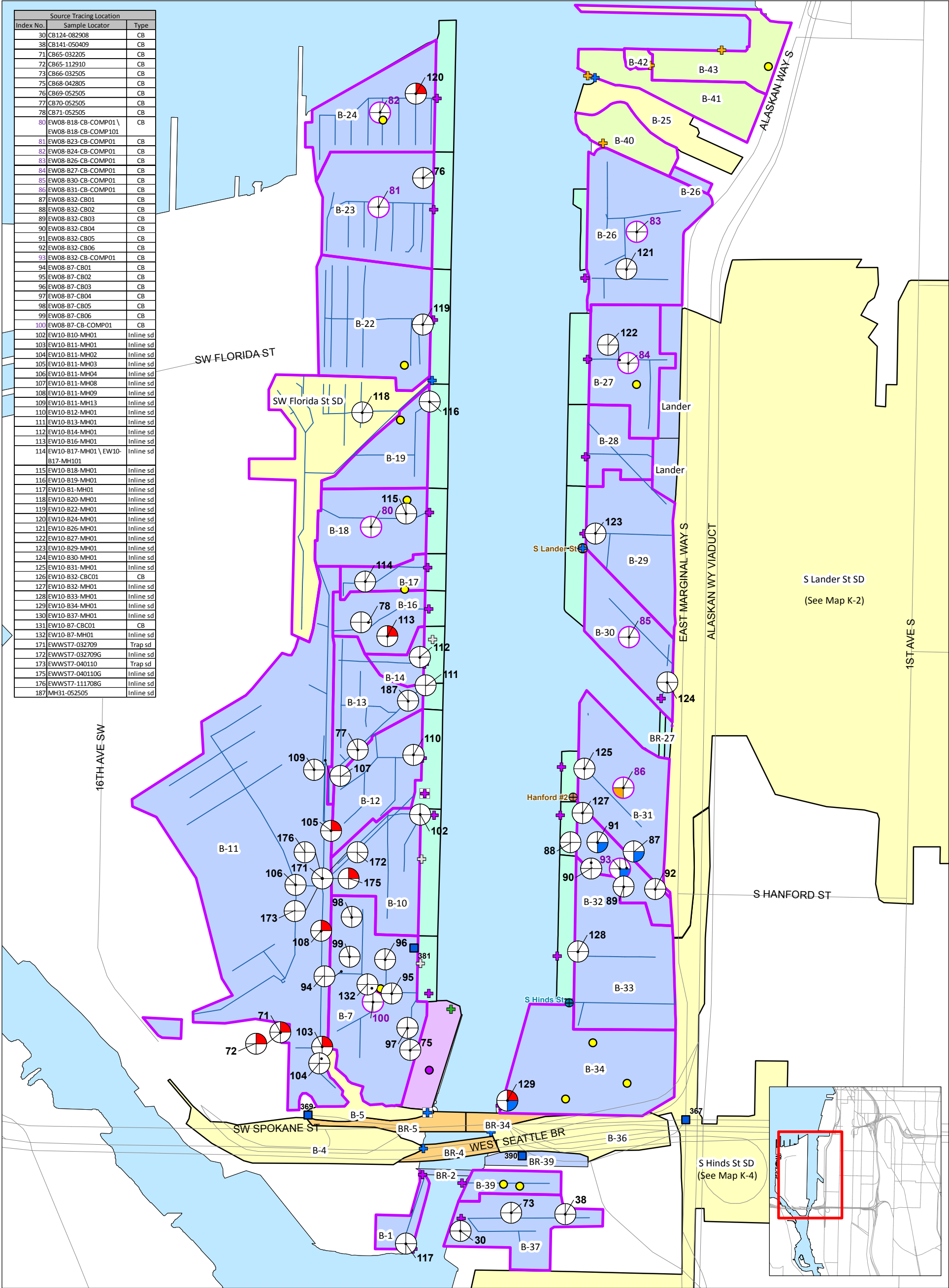
Map K-1:	All of the nearshore storm drain basins
Map K-2:	S Lander St SD basin
Map K-3:	Portions of the Hanford, Lander, and Hinds St CSO basins
Map K-4:	S Hinds St SD basin

The map presentation was developed to assist the reader with visualizing the types and locations of potential sources contributing to the EW; however, readers should note that the occurrence of spill, contaminated site, or inspection does not necessarily indicate that these sites have at one time or are contributing contaminants of concern to the EW.

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 9.5 – Summary

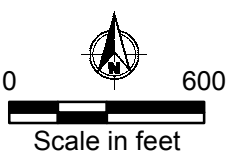


- Spill Site
- ECAP^a Site Visit Location
- High Priority Business Inspection (SPU)
- Drainage Basin**
- Port of Seattle Basin
 - Port of Seattle Apron or Bridge
 - SPU Basin
 - SPU Bridge
 - Olympic Tug and Barge Basin
 - Coast Guard Basin
 - Nearshore SD Basin
- ^a Environmental Compliance Assessment Program

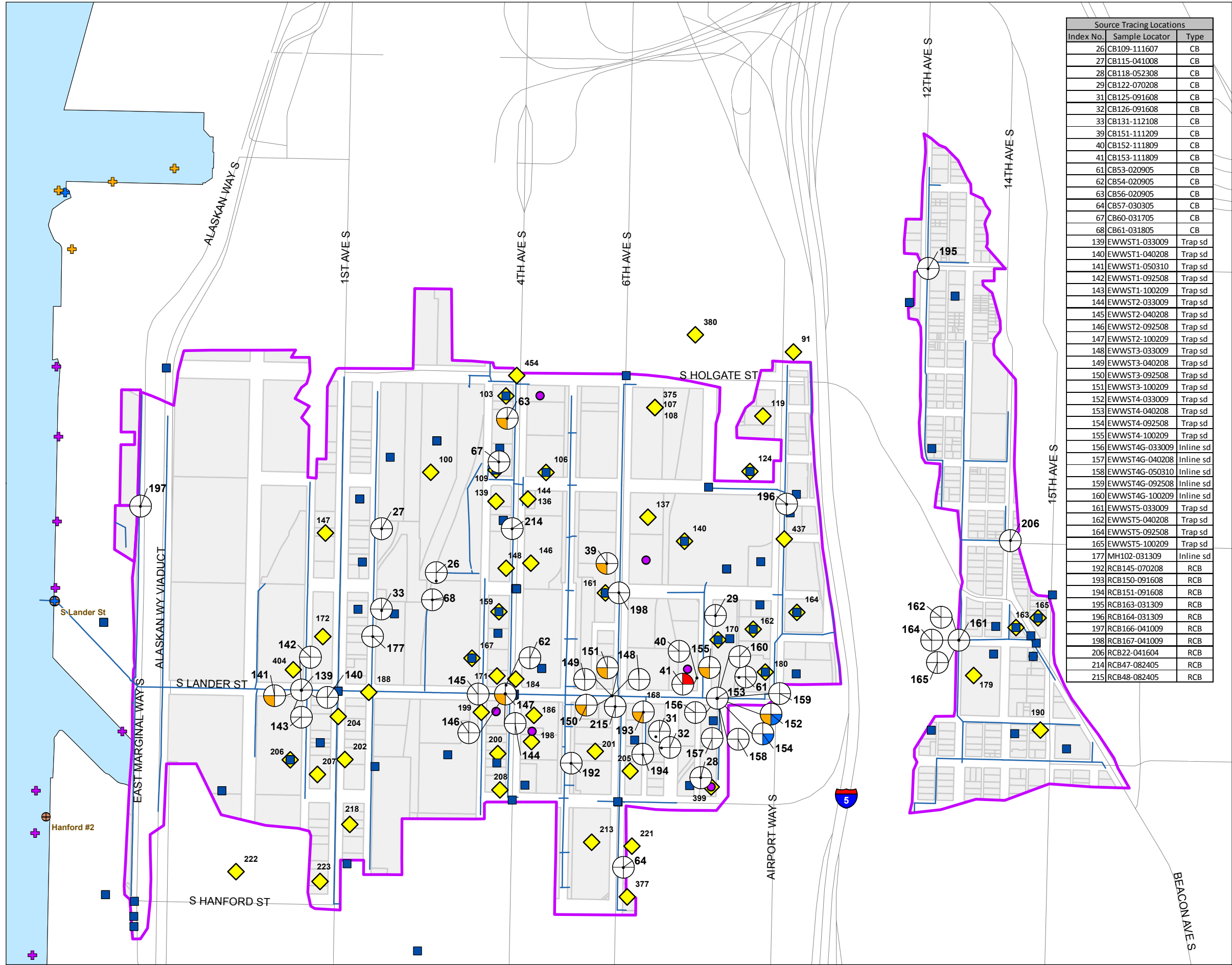
- Storm Drain
- Storm Drain Outfalls**
- Port of Seattle
 - City of Seattle
 - US Coast Guard
 - City EOF/Port SD
 - City EOF/City SD
 - Private
 - Unknown Outfall

- Combined Sewer Overflow Outfalls**
- City of Seattle CSO/SD
 - King County CSO
 - King County CSO/City of Seattle SD
- Road

- Source Tracing Results**
- As PCBs
- HPAH Hg
- Exceeds 2LAET
- | Contaminant | 2LAET |
|-------------|-----------------|
| PCBs | 1,000 µg/kg dw |
| Hg | 0.59 mg/kg dw |
| HPAH | 17,000 µg/kg dw |
| As | 93 mg/kg dw |
- Note: Composite samples outlined and labeled in purple.



Map K-1
Nearshore Basins
Supplemental Remedial Investigation
East Waterway Study Area



- Spill Site
- 316 Contaminated Site^a
- High Priority Business Inspection (SPU)
- S Lander St SD Basin
- Storm drain

Storm Drain Outfalls

- Port of Seattle
- City of Seattle
- US Coast Guard

Combined Sewer Overflow Outfalls

- King County CSO
- King County CSO/City of Seattle SD

- Parcel
- Road

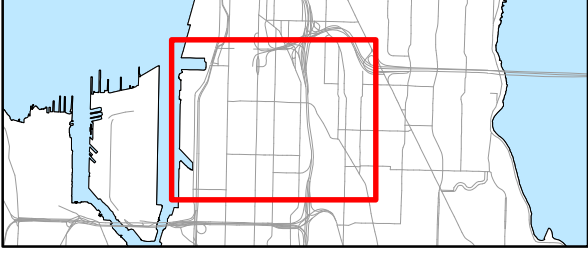
Source Tracing Results

As PCBs
HPAH Hg 129

Exceeds 2LAET

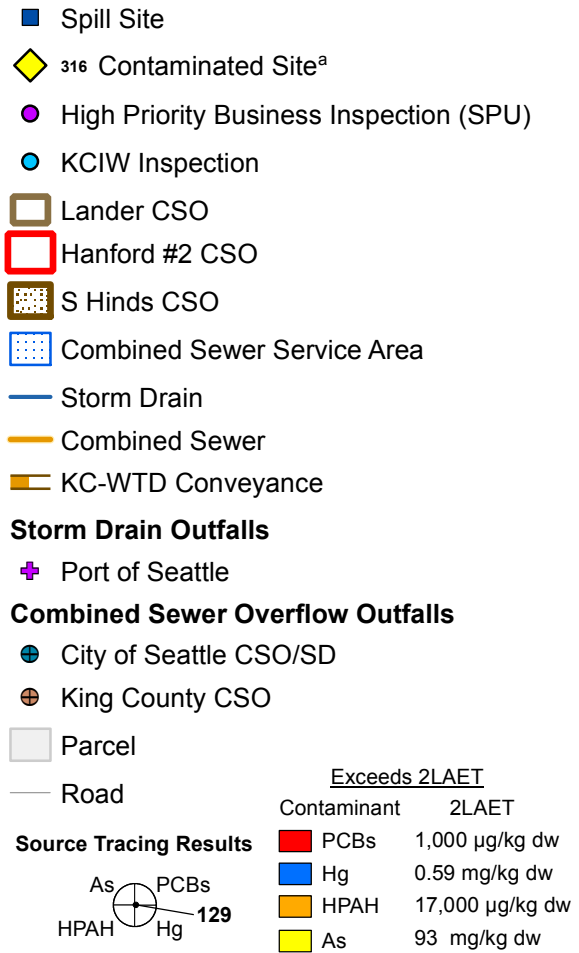
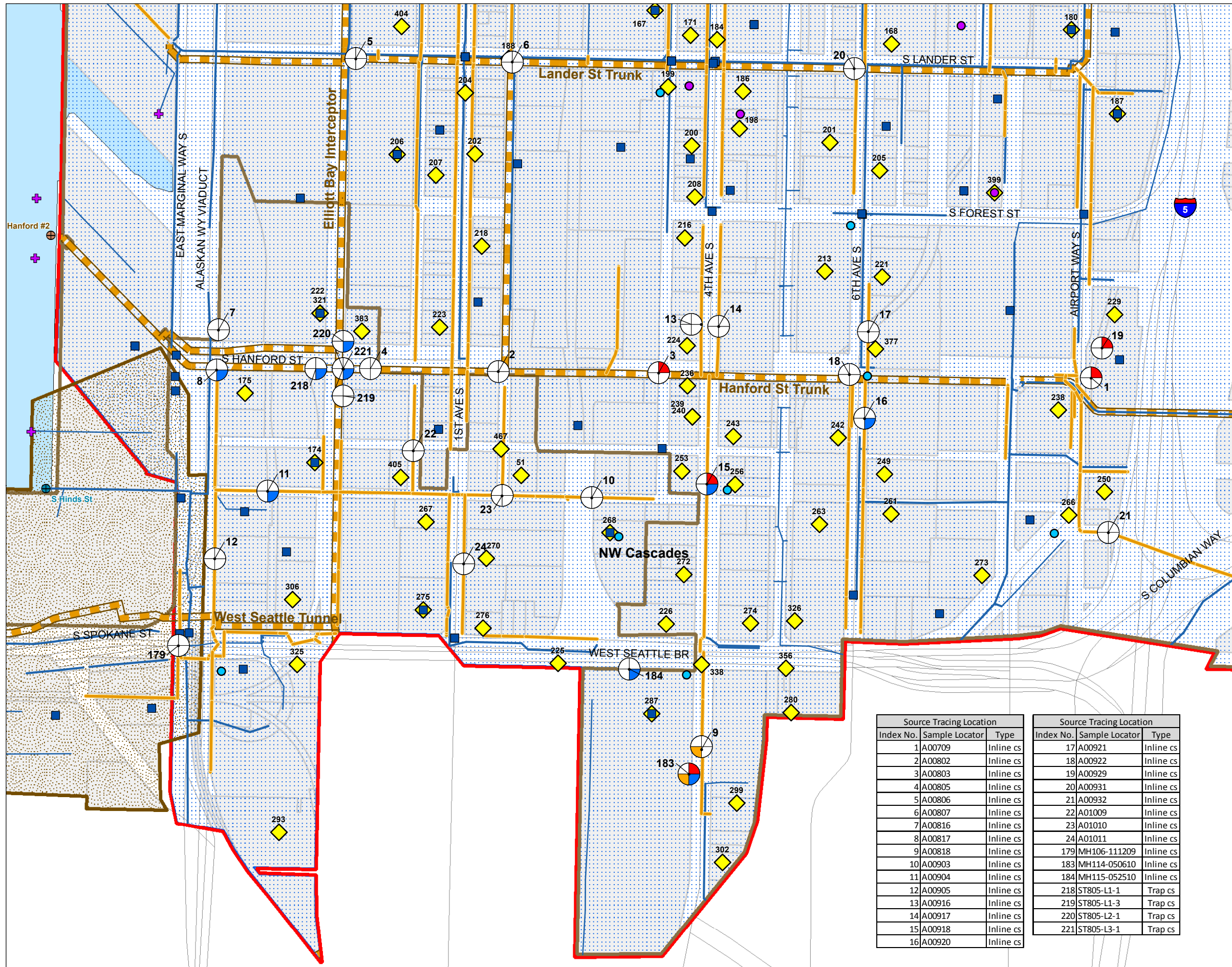
Contaminant	2LAET
PCBs	1,000 µg/kg dw
Hg	0.59 mg/kg dw
HPAH	17,000 µg/kg dw
As	93 mg/kg dw

^a Contaminated site number corresponds to appendix Table G-1.

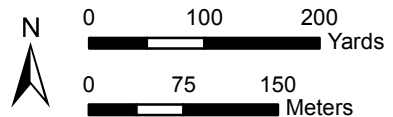
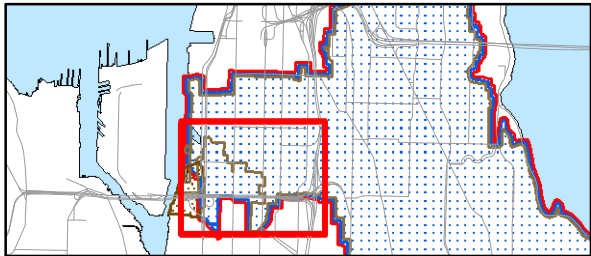


Map K-2
Lander SD Basin
Supplemental Remedial Investigation
East Waterway Study Area





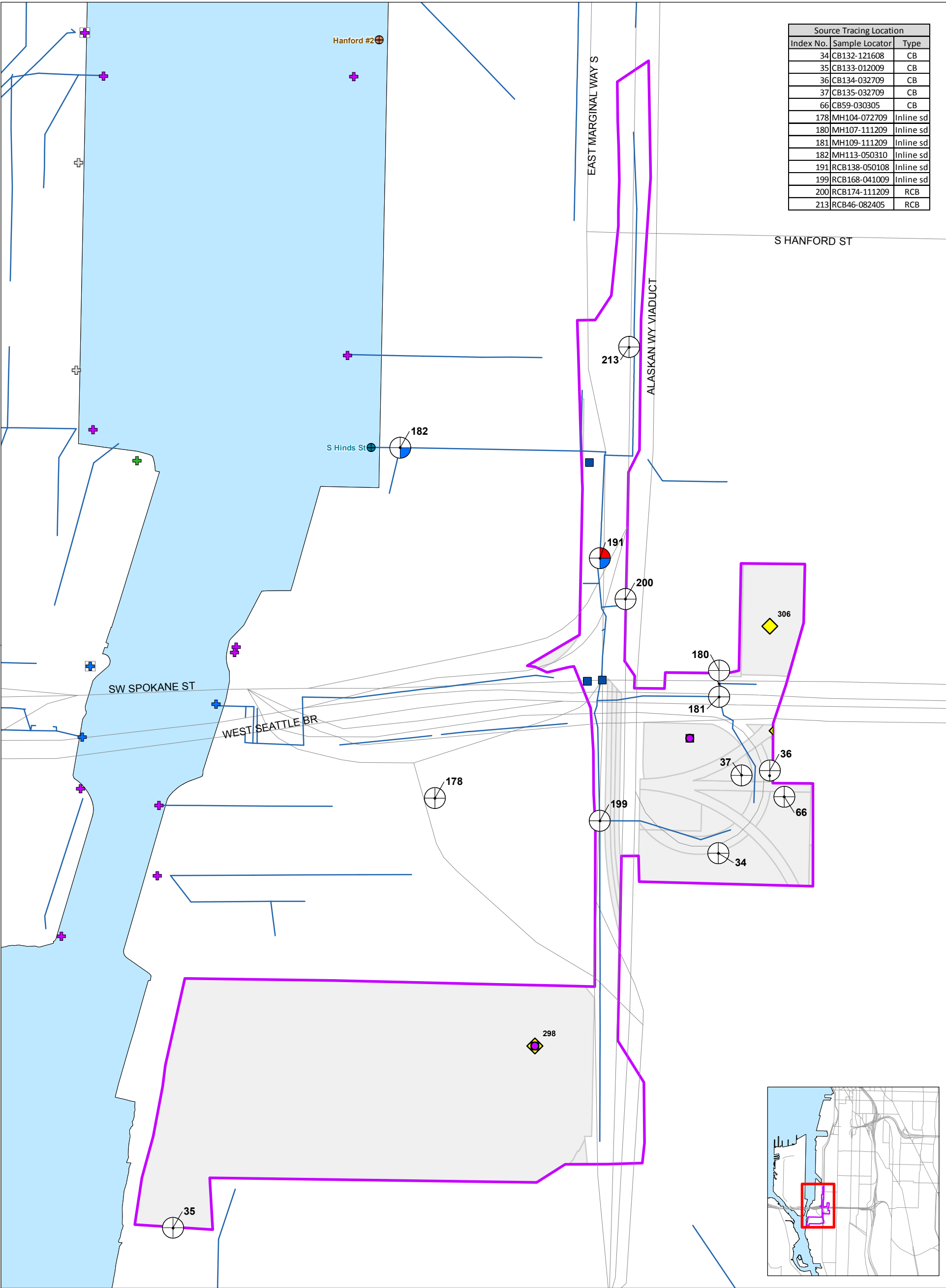
^a Contaminated site number corresponds to appendix Table G-1.



Map K-3
Hanford, Lander, and Hinds CSO Basins
Supplemental Remedial Investigation
East Waterway Study Area

Source Tracing Location		
Index No.	Sample Locator	Type
1	A00709	Inline cs
2	A00802	Inline cs
3	A00803	Inline cs
4	A00805	Inline cs
5	A00806	Inline cs
6	A00807	Inline cs
7	A00816	Inline cs
8	A00817	Inline cs
9	A00818	Inline cs
10	A00903	Inline cs
11	A00904	Inline cs
12	A00905	Inline cs
13	A00916	Inline cs
14	A00917	Inline cs
15	A00918	Inline cs
16	A00920	Inline cs

Source Tracing Location		
Index No.	Sample Locator	Type
17	A00921	Inline cs
18	A00922	Inline cs
19	A00929	Inline cs
20	A00931	Inline cs
21	A00932	Inline cs
22	A01009	Inline cs
23	A01010	Inline cs
24	A01011	Inline cs
179	MH106-111209	Inline cs
183	MH114-050610	Inline cs
184	MH115-052510	Inline cs
218	ST805-L1-1	Trap cs
219	ST805-L1-3	Trap cs
220	ST805-L2-1	Trap cs
221	ST805-L3-1	Trap cs



Source Tracing Location		
Index No.	Sample Locator	Type
34	CB132-121608	CB
35	CB133-012009	CB
36	CB134-032709	CB
37	CB135-032709	CB
66	CB59-030305	CB
178	MH104-072709	Inline sd
180	MH107-111209	Inline sd
181	MH109-111209	Inline sd
182	MH113-050310	Inline sd
191	RCB138-050108	Inline sd
199	RCB168-041009	Inline sd
200	RCB174-111209	RCB
213	RCB46-082405	RCB

■ Spill Site

◆ 316 Contaminated Site^a

● High Priority Business Inspection (SPU)

▭ S Hinds St SD

— Storm Drain

✚ Port of Seattle

✚ City of Seattle

✚ City EOF/Port SD

✚ City EOF/City SD

✚ Private

✚ Unknown Outfall

● City of Seattle CSO/SD

● King County CSO

— Road

Source Tracing Results

As

PCBs

HPAH

Hg

129

Exceeds 2LAET

Contaminant

2LAET

PCBs

1,000 µg/kg dw

Hg

0.59 mg/kg dw

HPAH

17,000 µg/kg dw

As

93 mg/kg dw

0

300

Scale in feet

Map K-4

S Hinds St SD Basin

Supplemental Remedial Investigation

East Waterway Study Area

^a Contaminated site number corresponds to appendix Table G-1.