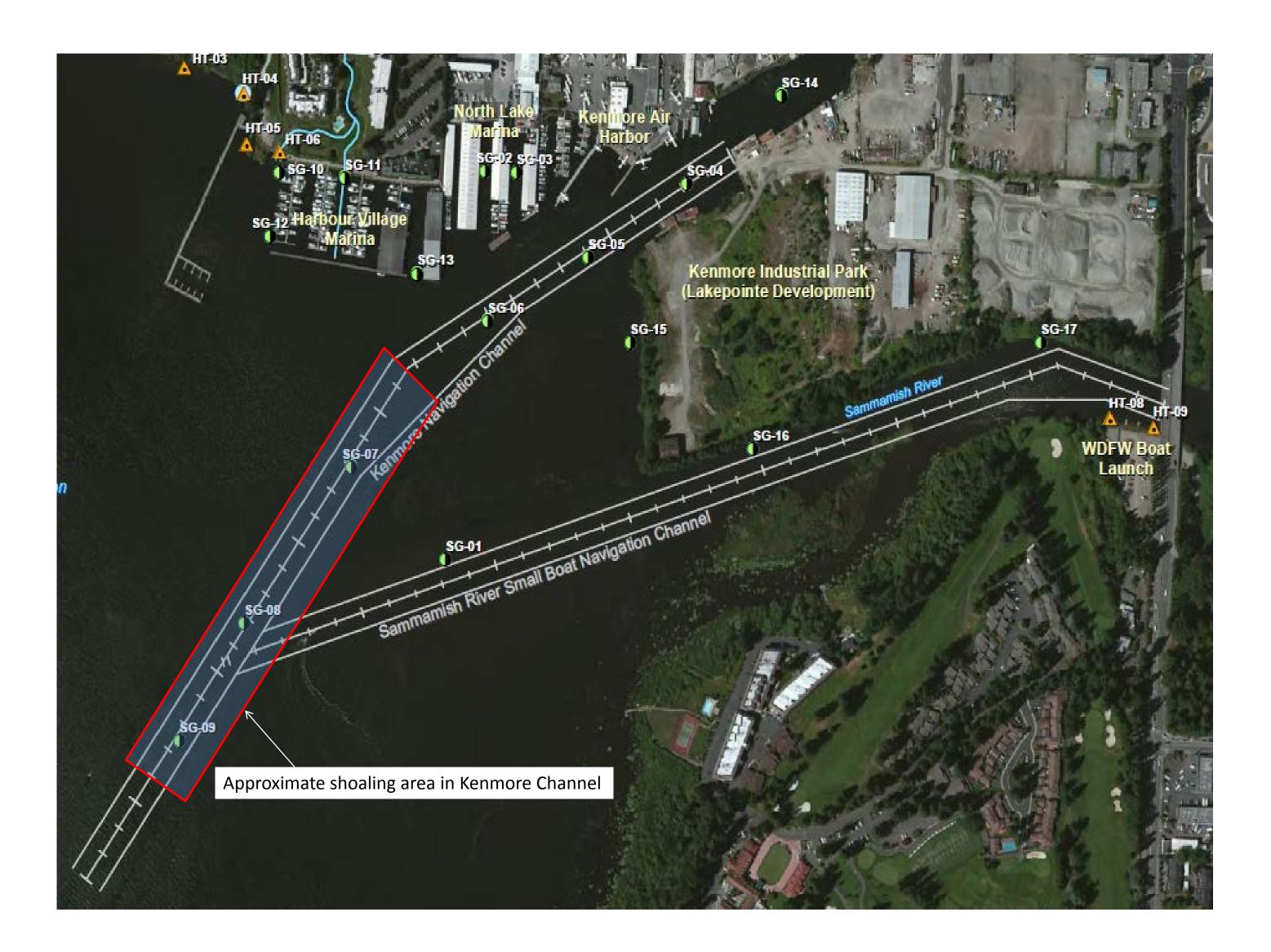
## DMMP Evaluation of Potential Dredge Sediments in the Kenmore Navigation Channel and Surrounding Areas

	Sample information		Comparison to DMMP Marine Open Water Disposal Screening values									Comparison to RSET Freshwater Screening Values (SEF 2006)								
Sample ID		Sample depth (cm)	% TOC	Dioxin (ng/kg DW)		Benzyl alcohol (ug/kg, DW)		Benzoic Acid (ug/kg, DW)		твт	Butyl Benzyl Phthalate (ug/kg, DW)		Copper (mg/kg, DW)		Zinc (mg/kg, DW)		Bis(2-ethylhexyl) phthalate (ug/kg, DW)		Di-n-Octyl phthalate (ug/kg, DW)	
										(ug/L, porewater)										
				SL	BT	SL	ML	SL	ML	SL = BT	SL	ML	SL 1	SL2	SL1	SL2	SL1	SL2	SL1	SL2
				4	10	57	870	650	760	0.15	63	970	80	830	130	400	220	320	26	45
SG04	Kenmore Navigational channel	20	2.73	1.6		20 (U)		390		0.049	20 (U)		14.6		49		62		20 (U)	
SG05		23.5	5.43	6.8		160		1300		0.008	20 (U)		35.6		143		260		22	
SG06		25	4.89	8.4		190		1100		0.023	57		43.6		164		540		41	
SG07		27	4.95/7.07	4.2/4.0		120/100		430/480		0.005/0.005 (U)	28/19 (U)		30.0/28.0		126/126		330/300		22/19(U)	
SG08		26	3.3	3.9		61		61		0.005 (U)	36		28.7		113		240		20(U)	
SG09		26.5	5.22	4.9		110		110		0.005 (U)	29		31.1		130		240		20(U)	
SG02		22	7.1	37		82		960		0.67	32		92.4		231		680		19 (U)	
SG03	North Lake Marina	25	6.6	20.3		130		1300		0.058	32		18.8		97		510		58	
SG10		10	3.1	6.6		200		520			20 (U)		88.1		267		480		20(U)	
SG11	Harbour Village Marina	10	10.8	7	71	530 300		1400 1500			24 71		97 47.5 62.1/62.8 111		377 185 205/205 182		740 360 560/430 280		87 20 (U)	
SG12		10	4.7	26	5.6															
SG13		10	5.45/3.8	50.1/18.9		360,	/280	1500/1700			82/56								73/42	
SG14	NE of Kenmore Ind. Park	10	4.33	1(	0.1	100		610		Analyzed as bulk TBT (ug/kg DW)	43								24	
SG16	Sammamish River	10	0.72	0.	.36	19 (U) 62 19 (U)		390 (U) 430 380 (U)			19 (U) 150 48 (U)		5.4 13.5 5.9		43 64 43		19 (U) 150 28		19 (U) 11 (U)	
SG17		10	3	2	3															
SG01		10	1.33	0.	.47														19 (U)	

- The DMMP evaluation for Harbour Village Marina was completed previously; data from this study indicates that dioxin is still elevated in the top 10 cm (as opposed to the full dredge prism evaluated previously), although concentrations appear to be lower in the more recently deposited sediments.
- In this sampling event, only the more recently deposited sediments (top 10 to 27 cm) were evaluated in this sampling event. Since this material does not represent the entire dredge prism or the surface exposed by dredging, the DMMP cannot use the data for determining suitability for open water disposal or for antidegradation evaluation.
- This data does indicate that material will need further sampling to support dredging of the Kenmore Navigational Channel and Northlake Marina. Deeper sediments and "Z-layer" samples representing surface exposed by dredging must be characterized prior to dredging the material.
- Comparison to DMMP marine open-water values would be used to evaluate material for open water disposal. At the PSSDA marine open-water disposal sites.
- Comparison to the RSET FW values would be used for in-water re-use in freshwater bodies, and for antidegradation evaluation. Since the release of the Screening Level Evaluation, Ecology has promulgated new freshwater criteria for protection of benthic invertebrate communities, which become effective in Sept 2013. The DMMP and RSET agencies are currently working on adopting these values along with "overlays" for protection of other species. Please see the Ecology presentations for comparison of the data to the new freshwater criteria.



## **Table Legend:**

Yellow highlight represents lower screening value exceedance (DMMP SL, RSET SL1).

Orange highlight represents upper screening level exceedance (DMMP BT or ML, RSET SL2).