





Sample Date  2-Jan-07  2-Apr-09  2-Apr-09	Sample Depth 0.1 - 0.5' 0 - 0.5'	Refusal?  Unknown  Yes - 1.5'. Target TD was 5'.	Soil Type  Unknown  Silty Sand (SM)	Dioxin*  0.00024  0.00065
2-Apr-09	0 - 0.5'	Yes - 1.5'. Target TD was 5'.		
•		· ·	Silty Sand (SM)	0.00065
2-Apr-09	0 - 0.5'			
	0 0.0	Yes - 0.5'. Target TD was 5'.	Silty Sand (SM)	0.00029
2-Apr-09	0 - 0.5'	Yes - 1.3'. Target TD was 5'. Poo	orly Graded Sand with Silt (SP-SM)	0.00053
2-Apr-09	2 - 2.5'	Yes - 2.5'. Target TD was 6'.	Silty Sand (SM)	0.0080
6-Jun-09	0 - 0.5'	No	Silty Sand (SM)	0.00032
6-Sep-08	0.25 - 0.75'	Unknown	Unknown	0.0025
)	2-Apr-09 6-Jun-09 6-Sep-08	2-Apr-09 2 - 2.5' 6-Jun-09 0 - 0.5' 6-Sep-08 0.25 - 0.75'	2-Apr-09 2 - 2.5' Yes - 2.5'. Target TD was 6'. 6-Jun-09 0 - 0.5' No 6-Sep-08 0.25 - 0.75' Unknown	2-Apr-09 2 - 2.5' Yes - 2.5'. Target TD was 6'. Silty Sand (SM)  6-Jun-09 0 - 0.5' No Silty Sand (SM)

## **Notes:**

Sample exceeds the 2005 background comparison concentration (MWH, 2005)

\* - dioxin values represent the TCDD toxicity equivalent (TEQ) (ND=0) 2005 World Health Organization (WHO)

	G I	G. I			Results in mg/kg			
Sample ID	Sample Date	Sample Depth	Refusal?	Soil Type	Cadmium	Copper	Lead	Mercury
A2BS1088S001	3-Apr-09	3 - 3.5'	Yes - 3.5'. Target TD was 5'.	Sand (SP)			10.2	
A2BS1089S001	2-Apr-09	0 - 0.25'	Yes - 1'. Target TD was 5'.	Gravelly Sand (GP)			8.44	
A2BS1090S001	2-Apr-09	0 - 0.25'	No	Silty Sand (SM)			67.6	]
A2BS1090S002	2-Apr-09	4.75 - 5'	No	Clayey Sand (SC)			12.1	
A2BS1091S001	3-Apr-09	0 - 0.25'	No	Silty Sand (SM)			33.3	
A2BS1091S002	3-Apr-09	4.75 - 5'	No	Silty Sand (SM)			241	
A2BS1092S001	2-Apr-09	0 - 0.25'	No	Silty Sand (SM)			11.7	
A2BS1092S002	2-Apr-09	4.75 - 5'	No	Sand (SP)			2.9	
A2BS1095S001	16-Jun-09	0 - 0.5'	No	Sandy Silt (ML)			338	]
A2BS1095S002	16-Jun-09	4.5 - 5'	No	Poorly Graded Sand (SP)			25.6	
A2BS1096S001	16-Jun-09	0 - 0.25'	No	Sandy Silt (ML)			16	
ENBS0020S001	20-Aug-08	0.5 - 0.9'	Unknown	Unknown	0.25	8.7	44.8	0.013
ENBS0020S001SP	20-Aug-08	0.5 - 0.9'	Unknown	Unknown	0.27	11	140	0.023 J
2005 Background Co	omparison Conce	ntration			1	29	34	0.09

Sample Exceeds the 2005 Background Comparison Concentration (MWH, 2005)

mg/kg - milligrams per kilogram "--" - not analyzed

J - Result is estimated

## **Supplemental Table 4-5** Outfall 009 ISRA Area Summary A2LF-1 and A2LF-3 ISRA Areas

Site Name	ISRA COCs Exceeding Background Comparison Concentrations <sup>1</sup>	Surface Area, Approximate Depth of Exceedance, and <i>Ex Situ</i> Volume Estimate <sup>2</sup>	Remedial Action	ISRA Soil Remediation Goals
A2LF-1	Dioxins	SA = 97 yd <sup>2</sup> Depth = 2 feet (0.67 yds) Volume = 85 cy	Excavation	Dioxins = 3 pg/g
A2LF-3	Lead	SA = 78 yd <sup>2</sup> Depth = 2 feet (0.67 yds) Volume = 68 cy	Excavation	Lead = 34 mg/kg

## **General Notes:**

1 - Background comparison concentration (MWH, 2005): Lead: 34 mg/kg Dioxin: 0.87 pg/g

2 - Ex-Situ Volume Assumes 30% fluff of ex situ soils

"--" - not applicable

cy - cubic yards

mg/kg - milligrams per kilogram

pg/g - picograms per gram
SA - Surface Area

yds - yards

yd<sup>2</sup> - square yards



