APPENDIX E

STANDARDS/ACTION LEVELS FOR CONFIRMATORY SAMPLES COLLECTED AT CLOSURE SITE ASSESSMENTS ***No Water Encountered***		
Parameter	**Unsaturated Soil Standard/Action Level (mg/kg)**	**Standard for Reuse of Soil On-site (mg/kg)**
Anthracene	350	350
Benzene	0.5	0.5
Benzo[a]anthracene	5.7/320	5.7/110
Benzo[a]pyrene	0.57/46	0.57/11
Benzo[b]fluoranthene	5.7/170	5.7/110
Benzo[g,h,i]perylene	180	180
Chrysene	230	230
Cumene	600/2,500	600/2,500
Dibromoethane, 1,2- (Ethylene dibromide)	0.005	0.005
Dichloroethane, 1,2-	0.5	0.5
Ethyl benzene	70	70
Fluorene	3,000/3,800	3,000/3,800
Indeno{1,2,3-cd]pyrene	5.7/28,000	5.7/110
Lead (total)	450	450
Methyl tert-butyl ether (MTBE)	2	2
Naphthalene	25	25
Phenanthrene	10,000	10,000
Pyrene	2,200	2,200
Toluene	100	100
Trimethyl benzene, 1,3,4- (trimethyl benzene, 1,2,4-)	8.4/35	8.4/35
Trimethyl benzene, 1,3,5-	2.3/9.3	2.3/9.3
Xylenes (total)	1,000	1,000

Note: In cases where two numbers are shown for a parameter's soil standard/action level, the lower number applies to residential sites and the higher number applies to non-residential sites.

Because only a limited site characterization is required to be conducted in localized contamination situations, the more conservative statewide standards are presented. For instance, in soil, the confirmatory sampling will be assumed to be conducted within 2 to 15 feet of the surface. Therefore, the more stringent of the direct contact or highest soil to groundwater numeric values will apply. Where the soil to groundwater values apply, it will be assumed that the aquifer is used with a TDS < or = 2,500. It will also be assumed that any soil reused on-site will be placed back in the excavation to grade and/or spread on the site. All sample results must attain the statewide standards. Please recognize that the standards presented above are based on these assumptions. Depending on the particular contamination situation, different statewide standards may apply or other cleanup options may be available.

STANDARDS/ACTION LEVELS FOR CONFIRMATORY SAMPLES COLLECTED AT CLOSURE SITE ASSESSMENTS

*****Water Encountered*****

Parameter	Saturated Soil Standard/Action Level[1] (mg/kg)	Unsaturated Soil Standard/Action Level (mg/kg)	Water Standard/Action Level (ug/l)	Standard for Reuse of Soil On-site (mg/kg)
Anthracene	35	350	66	35
Benzene	0.5	0.5	5	0.5
Benzo[a]anthracene	2.5/32	5.7/320	0.29	2.5/32
Benzo[a]pyrene	0.57/4.6	0.57/46	0.2	0.57/4.6
Benzo[b]fluoranthene	4/17	5.7/170	0.29	4/17
Benzo[g,h,i]perylene	18	180	0.26	18
Chrysene	23	230	1.9	23
Cumene	84/350	600/2,500	840	84/350
Dibromoethane, 1,2- (Ethylene dibromide)	0.005	0.005	0.05	0.005
Dichloroethane, 1,2-	0.5	0.5	5	0.5
Ethyl benzene	70	70	700	70
Fluorene	300/380	3,000/3,800	1,500	300/380
Indeno{1,2,3-cd]pyrene	5.7/2,800	5.7/28,000	0.29	5.7/110
Lead (dissolved)			5	
Lead (total)	45	450		45
Methyl tert-butyl ether (MTBE)	2	2	20	2
Naphthalene	10	25	100	10
Phenanthrene	1,000	10,000	1,100	1,000
Pyrene	220	2,200	130	220
Toluene	100	100	1,000	100
Trimethyl benzene, 1,3,4- (Trimethyl benzene, 1,2,4-)	1.5/6.2	8.4/35	15	1.5/6.2
Trimethyl benzene, 1,3,5-	1.3/5.3	2.3/9.3	13	1.3/5.3
Xylenes (total)	1,000	1,000	10,000	1,000

[1] These standards apply to soil/water interface samples only.

Note: In cases where two numbers are shown for a parameter's soil standard/action level, the lower number applies to residential sites and the higher number applies to non-residential sites.

Because only a limited site characterization is required to be conducted in localized contamination situations, the more conservative statewide standards are presented. For instance, in soil, the confirmatory sampling will be assumed to be conducted within 2 to 15 feet of the surface. Therefore, the more stringent of the direct contact or highest soil to groundwater numeric values will apply. Where the soil to groundwater values apply, it will be assumed that the aquifer is used with a TDS < or = 2,500. More stringent standards may apply to samples collected at the soil/water interface. Where water is encountered, it will be assumed to be groundwater in a used aquifer with a TDS < or = 2,500. Where any soil is reused on-site, it will

be assumed that the soil will be placed back in the excavation to grade and/or spread on the site. All sample results must attain the statewide standards. Please recognize that the standards presented above are based on these assumptions. Depending on the particular contamination situation, different statewide standards may apply or other cleanup options may be available.