Table E-1. Proposed Action Alternative – Predicted in-Stream Contaminant of Concern Concentrations for Cypress Creek for 3-, 6-, and 10-Year Ash Stacking Intervals (Phases 1 and 2)

				Case 4: Phase II Stacking Year 3 Soil Cover on Phase I Leachate Rate = 0.036 cfs		Case 5: Phase II Stacking Year 6 Soil Cover on Phase I Leachate Rate = 0.037 cfs		Case 6: Phase II Stacking Year 10 Soil Cover on Phase I Leachate Rate = 0.043 cfs	
COC Parameter	**MCL (mg/L)**	**Worst-Case Leachate Concentration (mg/L)**	**Aquatic Toxicity Limit (mg/L)[f]**	**Mass Loading (mg/day)**	**In-Stream Concentration (mg/L)**	**Mass Loading (mg/day)**	**In-Stream Concentration (mg/L)**	**Mass Loading (mg/day)**	**In-Stream Concentration (mg/L)**
arsenic	**0.01**	0.28	0.15[a]	24454	**0.0294**	25352	**0.0305**	29251	**0.0352**
barium	**2**	3.04	--	265500	0.3192	275245	0.3309	317580	0.3818
cadmium	**0.005**	0.0058	0.0002[b]	507	0.0006	525	0.0006	606	0.0007
chromium	**0.1**	0.0580	0.0587[b]	5065	0.0061	5251	0.0063	6059	0.0073
lead	**0.015**	0.0051	0.0018[b]	445	0.0005	462	0.0006	533	0.0006
mercury	**0.002**	0.0020	0.0008[a]	175	0.0002	181	0.0002	209	0.0003
selenium	**0.05**	0.3100	0.005	27074	0.0325	28068	0.0337	32385	0.0389
silver	**0.1**	0.0500	0.0018[c]	4367	0.0052	4527	0.0054	5223	0.0063

Notes: a.) Criterion continuous concentration (CCC)
b.) Computed criterion continuous concentration
c.) Computed criterion maximum concentration (CMC)
d.) Bold value indicates exceeds MCL
e.) Highlighted value indicates exceeds of CCC
f.) Computed values are based on equations given in TDEC rule 1200-4-3-.03. The equations are hardness derived; values used for hardness are from TDEC grab samples from Cypress Creek (2008).

Table E-2. Proposed Action Alternative - Predicted in-Stream Contaminant of Concern Concentrations for Cypress Creek for the Tenth Year of Ash Stacking for Various Cover and Liner Combinations (Phases 1 and 2)

				Case 10: Phase II Stacking Year 10 Phase I GCL Cover, Phase II GCL Liner Leachate Rate = 0.022 cfs		Case 11: Phase II Stacking Year 10 Phase I FML Cover, Phase II GCL Liner Leachate Rate = 0.019 cfs		Case 12: Phase II Stacking Year 10 Phase I FML Cover, Phase II FML Liner Leachate Rate = 0.008 cfs	
COC Parameter	**MCL (mg/L)**	**Worst-Case Leachate Concentration (mg/L)**	**Aquatic Toxicity Limit (mg/L)[f]**	**Mass Loading (mg/day)**	**In-Stream Concentration (mg/L)**	**Mass Loading (mg/day)**	**In-Stream Concentration (mg/L)**	**Mass Loading (mg/day)**	**In-Stream Concentration (mg/L)**
arsenic	**0.01**	0.28	0.15[a]	15071	**0.0181**	12857	**0.0155**	5515	0.0066
barium	**2**	3.04	--	163627	0.1967	139595	0.1678	59880	0.0720
cadmium	**0.005**	0.0058	0.0002[b]	312	0.0004	266	0.0003	114	0.0001
chromium	**0.1**	0.0580	0.0587[b]	3122	0.0038	2663	0.0032	1142	0.0014
lead	**0.015**	0.0051	0.0018[b]	275	0.0003	234	0.0003	100	0.0001
mercury	**0.002**	0.0020	0.0008[a]	108	0.0001	92	0.0001	39	0.0000
selenium	**0.05**	0.3100	0.005	16686	0.0201	14235	0.0171	6106	0.0073
silver	**0.1**	0.0500	0.0018[c]	2691	0.0032	2296	0.0028	985	0.0012

Notes: a.) Criterion continuous concentration (CCC)
b.) Computed criterion continuous concentration
c.) Computed criterion maximum concentration (CMC)
d.) Bold value indicates exceeds MCL
e.) Highlighted value indicates exceeds of CCC
f.) Computed values are based on equations given in TDEC rule 1200-4-3-.03. The equations are hardness derived; values used for hardness are from TDEC grab samples from Cypress Creek (2008).