

TABLE 1

Proposed Sampling and Analysis Table
San Francisco Electric Reliability Project
25th and Maryland Streets, San Francisco

Boring ID	Sampling Medium	Sample Depth (ft bgs)	Select Metals	PAHs	TPHd, TPHmo, TPHbunker	Total Chromium and Hexavalent Chromium	Chlorinated VOCs	Saturated Zone Physical Properties	Vadose Zone Physical Properties	Rationale	
SB-32	Groundwater	-	X	X	X	-	-	-	-	Evaluate the presence of certain metals in groundwater (dissolved) at the site perimeter	
	Soil	5	-	-	-	-	-	-	X	Physical properties for evaluating migration potential	
		15	-	-	-	-	-	X	-		
SB-33	Groundwater	-	X	X	X	-	-	-	-	Evaluate the presence of certain metals in groundwater (dissolved) at the site perimeter	
SB-34	Groundwater	-	X	X	X	-	-	-	-	Evaluate the presence of certain metals in groundwater (dissolved) at the site perimeter	
	Soil	15	-	-	-	-	-	X	-	Physical properties for evaluating migration potential	
SB-35	Groundwater	-	X	X	X	-	-	-	-	Evaluate the presence of certain metals in groundwater (dissolved) at the site perimeter	
SB-36	Groundwater	-	X	X	X	-	-	-	-	Evaluate the presence of certain metals in groundwater (dissolved) at the site perimeter	
	Soil	1	-	-	-	X	-	-	-	Evaluate whether chromium detected at the site is present in the trivalent and/or hexavalent state	
		5	-	-	-	-	-	-	-		
SB-37	Groundwater	-	X	X	X	-	-	-	-	Evaluate the presence of certain metals in groundwater (dissolved) at the site perimeter	
	Soil	1	-	-	-	X	-	-	-	Physical properties for evaluating migration potential; evaluate whether chromium detected at the site is present in the trivalent and/or hexavalent state	
		5	-	-	-	X	-	-	-		
		15	-	-	-	-	-	-	X		-
SB-38	Soil	1	-	X	-	-	-	-	-	Confirm elevated PAHs are present	
		5									
		10									
		15									
SB-39	Soil	1	-	X	X	X	-	-	-	Assess lateral and vertical extent of elevated TPH and PAHs in soil; evaluate whether chromium detected at the site is present in the trivalent and/or hexavalent state	
		5				X	-	-	-		
		10				-	-	-	-		
		15				-	-	-	-		
SB-40	Soil	1	-	X	X	-	-	-	-	Assess lateral and vertical extent of elevated TPH and PAHs in soil	
		5									
		10									
		15									
SB-41	Soil	1	-	X	X	-	-	-	-		Assess lateral and vertical extent of elevated TPH and PAHs in soil
		5									
		10									
		15									
SB-42	Soil	1	-	X	X	-	-	-	-	Assess lateral and vertical extent of elevated TPH and PAHs in soil	
		5									
		10									
		15									

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SB-43	Soil	1	-	-	-	X	-	-	-	Evaluate whether chromium detected at the site is present in the trivalent and/or hexavalent state
		5								
SB-44	Soil	1	-	-	-	X	-	-	-	
		5								
SB-45	Soil	1	-	-	-	X	-	-	-	Physical properties for evaluating the migration potential; evaluate whether chromium detected at the site is present in the trivalent and/or hexavalent state
		5								
SB-46	Soil Vapor	5	-	-	-	-	X	-	-	Assess the distribution of Chlorinated VOCs
SB-47										
SB-48										
SB-49										
SB-50										
SB-51										
SB-52										
SB-53										

Analysis:

Select Metals (As, Cu, Hg, Ni, Pb, Se, Vn, and Zn) by EPA Method 6010/7000
 Polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270 SIM
 TPH by EPA Method 8015M (laboratory filtration and silica gel preparation will be performed on groundwater samples)
 Total Chromium and Hexavalent Chromium by EPA Method 7196
 Chlorinated VOCs by EPA Method 8260B
 Saturated zone physical properties samples will be analyzed for: effective porosity by ASTM Method D2325M; moisture content by ASTM Method D2216; particle size analysis by ASTM Method D422; bulk density by ASTM Method D2937; specific gravity by ASTM Method D854; total organic carbon by EPA Method 415.2; and hydraulic conductivity by ASTM Method D5084.
 Vadose zone physical properties samples will be analyzed for effective porosity by ASTM Method D2325M; moisture content by ASTM Method D2216; particle size analysis by ASTM Method D422; bulk density by ASTM Method D2937; and specific gravity by ASTM Method D854.

Notes:

- = Not Analyzed
 X = Analyze for selected constituent