

Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells						
Parameter <sup>1</sup>	M66-UBF (USDW Monitoring Well)		M67-LBF (USDW Monitoring Well)		M68-LBF (USDW Monitoring Well)	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
pH (lab)	TBD	TBD	TBD	TBD	TBD	TBD
Bicarbonate	TBD	TBD	TBD	TBD	TBD	TBD
Calcium	TBD	TBD	TBD	TBD	TBD	TBD
Carbonate	TBD	TBD	TBD	TBD	TBD	TBD
Chloride	TBD	TBD	TBD	TBD	TBD	TBD
Nitrate as nitrogen <sup>3</sup>	TBD	TBD	TBD	TBD	TBD	TBD
Potassium	TBD	TBD	TBD	TBD	TBD	TBD
Sodium	TBD	TBD	TBD	TBD	TBD	TBD
Cation/anion balance	TBD	TBD	TBD	TBD	TBD	TBD
Aluminum	TBD	TBD	TBD	TBD	TBD	TBD
Antimony	TBD	TBD	TBD	TBD	TBD	TBD
Arsenic	TBD	TBD	TBD	TBD	TBD	TBD
Barium	TBD	TBD	TBD	TBD	TBD	TBD
Beryllium	TBD	TBD	TBD	TBD	TBD	TBD
Cadmium	TBD	TBD	TBD	TBD	TBD	TBD
Chromium (total)	TBD	TBD	TBD	TBD	TBD	TBD
Cobalt	TBD	TBD	TBD	TBD	TBD	TBD
Copper	TBD	TBD	TBD	TBD	TBD	TBD
Iron	TBD	TBD	TBD	TBD	TBD	TBD
Lead	TBD	TBD	TBD	TBD	TBD	TBD
Manganese	TBD	TBD	TBD	TBD	TBD	TBD
Mercury	TBD	TBD	TBD	TBD	TBD	TBD
Nickel	TBD	TBD	TBD	TBD	TBD	TBD
Selenium	TBD	TBD	TBD	TBD	TBD	TBD
Thallium	TBD	TBD	TBD	TBD	TBD	TBD
Zinc	TBD	TBD	TBD	TBD	TBD	TBD
Gross Alpha	TBD	TBD	TBD	TBD	TBD	TBD
Adjusted Gross Alpha (pCi/L) <sup>5</sup>	TBD	TBD	TBD	TBD	TBD	TBD
Radium 226 + 228 (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Total Uranium Isotopes (pCi/L) <sup>6</sup>	TBD	TBD	TBD	TBD	TBD	TBD
Total Uranium	TBD	TBD	TBD	TBD	TBD	TBD
Total petroleum hydrocarbons- diesel	TBD	TBD	TBD	TBD	TBD	TBD
Benzene	TBD	TBD	TBD	TBD	TBD	TBD
Ethylbenzene	TBD	TBD	TBD	TBD	TBD	TBD
Toluene	TBD	TBD	TBD	TBD	TBD	TBD
Total Xylene	TBD	TBD	TBD	TBD	TBD	TBD

**Notes:**

<sup>1</sup> Metals must be analyzed as dissolved metals.

<sup>2</sup> Monitor = Monitoring required, but no AQL or AL will be established in the permit.

<sup>3</sup> Nitrate will be used only for calculation of cation/anion balance because of regional nitrate pollution and none used in processes.

<sup>4</sup> NE = Not Established

<sup>5</sup> If the gross alpha particle activity is greater than the AL or AQL, then calculate the adjusted gross alpha particle activity. The adjusted gross alpha particle activity is the gross alpha particle activity, including radium 226, and any other alpha emitters, if present in the water sample, minus radon and total uranium (the sum of uranium 238, uranium 235 and uranium 234 isotopes). The gross alpha analytical procedure (evaporation technique: EPA Method 900.0) drives off radon gas in the water samples. Therefore, the Adjusted Gross Alpha should be calculated using the following formula: (Laboratory Reported Gross Alpha MINUS Sum of the Uranium Isotopes).

<sup>6</sup> Uranium Isotope activity results must be used for calculating Adjusted Gross Alpha.

AL = alert level

AQL = Aquifer Quality Limit

mg/L = milligrams per liter

pCi/L = picocuries per liter

TBD = To Be Determined

USDW = Underground Source of Drinking Water

Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells						
Parameter	M69-UBF (USDW Monitoring Well)		M70-LBF (USDW Monitoring Well)		M71-UBF (USDW Monitoring Well)	
	AQL (mg/l)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
pH (lab)	TBD	TBD	TBD	TBD	TBD	TBD
Bicarbonate	TBD	TBD	TBD	TBD	TBD	TBD
Calcium	TBD	TBD	TBD	TBD	TBD	TBD
Carbonate	TBD	TBD	TBD	TBD	TBD	TBD
Chloride	TBD	TBD	TBD	TBD	TBD	TBD
Nitrate as nitrogen	TBD	TBD	TBD	TBD	TBD	TBD
Potassium	TBD	TBD	TBD	TBD	TBD	TBD
Sodium	TBD	TBD	TBD	TBD	TBD	TBD
Cation/anion balance	TBD	TBD	TBD	TBD	TBD	TBD
Aluminum	TBD	TBD	TBD	TBD	TBD	TBD
Antimony	TBD	TBD	TBD	TBD	TBD	TBD
Arsenic	TBD	TBD	TBD	TBD	TBD	TBD
Barium	TBD	TBD	TBD	TBD	TBD	TBD
Beryllium	TBD	TBD	TBD	TBD	TBD	TBD
Cadmium	TBD	TBD	TBD	TBD	TBD	TBD
Chromium (total)	TBD	TBD	TBD	TBD	TBD	TBD
Cobalt	TBD	TBD	TBD	TBD	TBD	TBD
Copper	TBD	TBD	TBD	TBD	TBD	TBD
Iron	TBD	TBD	TBD	TBD	TBD	TBD
Lead	TBD	TBD	TBD	TBD	TBD	TBD
Manganese	TBD	TBD	TBD	TBD	TBD	TBD
Mercury	TBD	TBD	TBD	TBD	TBD	TBD
Nickel	TBD	TBD	TBD	TBD	TBD	TBD
Selenium	TBD	TBD	TBD	TBD	TBD	TBD
Thallium	TBD	TBD	TBD	TBD	TBD	TBD
Zinc	TBD	TBD	TBD	TBD	TBD	TBD
Gross Alpha	TBD	TBD	TBD	TBD	TBD	TBD
Adjusted Gross Alpha (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Radium 226 + 228 (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Total Uranium Isotopes (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Total Uranium	TBD	TBD	TBD	TBD	TBD	TBD
Total petroleum hydrocarbons- diesel	TBD	TBD	TBD	TBD	TBD	TBD
Benzene	TBD	TBD	TBD	TBD	TBD	TBD
Ethylbenzene	TBD	TBD	TBD	TBD	TBD	TBD
Toluene	TBD	TBD	TBD	TBD	TBD	TBD
Total Xylene	TBD	TBD	TBD	TBD	TBD	TBD

**Notes:**

AL = alert level  
AQL = Aquifer Quality Limit  
mg/L = milligrams per liter  
pCi/L = picocuries per liter  
TBD = To Be Determined  
USDW = Underground Source of Drinking Water

Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells						
Parameter	M72-UBF (ACD Demonstration Well)		M73-LBF (ACD Demonstration Well)		M62-LBF (Fault Monitoring Well)	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
pH (lab)	TBD	TBD	TBD	TBD	TBD	TBD
Bicarbonate	TBD	TBD	TBD	TBD	TBD	TBD
Calcium	TBD	TBD	TBD	TBD	TBD	TBD
Carbonate	TBD	TBD	TBD	TBD	TBD	TBD
Chloride	TBD	TBD	TBD	TBD	TBD	TBD
Nitrate as nitrogen	TBD	TBD	TBD	TBD	TBD	TBD
Potassium	TBD	TBD	TBD	TBD	TBD	TBD
Sodium	TBD	TBD	TBD	TBD	TBD	TBD
Cation/anion balance	TBD	TBD	TBD	TBD	TBD	TBD
Aluminum	TBD	TBD	TBD	TBD	TBD	TBD
Antimony	TBD	TBD	TBD	TBD	TBD	TBD
Arsenic	TBD	TBD	TBD	TBD	TBD	TBD
Barium	TBD	TBD	TBD	TBD	TBD	TBD
Beryllium	TBD	TBD	TBD	TBD	TBD	TBD
Cadmium	TBD	TBD	TBD	TBD	TBD	TBD
Chromium (total)	TBD	TBD	TBD	TBD	TBD	TBD
Cobalt	TBD	TBD	TBD	TBD	TBD	TBD
Copper	TBD	TBD	TBD	TBD	TBD	TBD
Iron	TBD	TBD	TBD	TBD	TBD	TBD
Lead	TBD	TBD	TBD	TBD	TBD	TBD
Manganese	TBD	TBD	TBD	TBD	TBD	TBD
Mercury	TBD	TBD	TBD	TBD	TBD	TBD
Nickel	TBD	TBD	TBD	TBD	TBD	TBD
Selenium	TBD	TBD	TBD	TBD	TBD	TBD
Thallium	TBD	TBD	TBD	TBD	TBD	TBD
Zinc	TBD	TBD	TBD	TBD	TBD	TBD
Gross Alpha	TBD	TBD	TBD	TBD	TBD	TBD
Adjusted Gross Alpha (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Radium 226 + 228 (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Total Uranium Isotopes (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Total Uranium	TBD	TBD	TBD	TBD	TBD	TBD
Total petroleum hydrocarbons- diesel	TBD	TBD	TBD	TBD	TBD	TBD
Benzene	TBD	TBD	TBD	TBD	TBD	TBD
Ethylbenzene	TBD	TBD	TBD	TBD	TBD	TBD
Toluene	TBD	TBD	TBD	TBD	TBD	TBD
Total Xylene	TBD	TBD	TBD	TBD	TBD	TBD

**Notes:**

ACD = annular conductivity device

AL = alert level

AQL = Aquifer Quality Limit

mg/L = milligrams per liter

pCi/L = picocuries per liter

TBD = To Be Determined

Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells						
Parameter	M63-LBF (Fault Monitoring Well)		M64-LBF (Fault Monitoring Well)		M65-LBF (Fault Monitoring Well)	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
pH (lab)	TBD	TBD	TBD	TBD	TBD	TBD
Bicarbonate	TBD	TBD	TBD	TBD	TBD	TBD
Calcium	TBD	TBD	TBD	TBD	TBD	TBD
Carbonate	TBD	TBD	TBD	TBD	TBD	TBD
Chloride	TBD	TBD	TBD	TBD	TBD	TBD
Nitrate as nitrogen	TBD	TBD	TBD	TBD	TBD	TBD
Potassium	TBD	TBD	TBD	TBD	TBD	TBD
Sodium	TBD	TBD	TBD	TBD	TBD	TBD
Cation/anion balance	TBD	TBD	TBD	TBD	TBD	TBD
Aluminum	TBD	TBD	TBD	TBD	TBD	TBD
Antimony	TBD	TBD	TBD	TBD	TBD	TBD
Arsenic	TBD	TBD	TBD	TBD	TBD	TBD
Barium	TBD	TBD	TBD	TBD	TBD	TBD
Beryllium	TBD	TBD	TBD	TBD	TBD	TBD
Cadmium	TBD	TBD	TBD	TBD	TBD	TBD
Chromium (total)	TBD	TBD	TBD	TBD	TBD	TBD
Cobalt	TBD	TBD	TBD	TBD	TBD	TBD
Copper	TBD	TBD	TBD	TBD	TBD	TBD
Iron	TBD	TBD	TBD	TBD	TBD	TBD
Lead	TBD	TBD	TBD	TBD	TBD	TBD
Manganese	TBD	TBD	TBD	TBD	TBD	TBD
Mercury	TBD	TBD	TBD	TBD	TBD	TBD
Nickel	TBD	TBD	TBD	TBD	TBD	TBD
Selenium	TBD	TBD	TBD	TBD	TBD	TBD
Thallium	TBD	TBD	TBD	TBD	TBD	TBD
Zinc	TBD	TBD	TBD	TBD	TBD	TBD
Gross Alpha	TBD	TBD	TBD	TBD	TBD	TBD
Adjusted Gross Alpha (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Radium 226 + 228 (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Total Uranium Isotopes (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Total Uranium	TBD	TBD	TBD	TBD	TBD	TBD
Total petroleum hydrocarbons- diesel	TBD	TBD	TBD	TBD	TBD	TBD
Benzene	TBD	TBD	TBD	TBD	TBD	TBD
Ethylbenzene	TBD	TBD	TBD	TBD	TBD	TBD
Toluene	TBD	TBD	TBD	TBD	TBD	TBD
Total Xylene	TBD	TBD	TBD	TBD	TBD	TBD

**Notes:**

AL = alert level  
AQL = Aquifer Quality Limit  
mg/L = milligrams per liter  
pCi/L = picocuries per liter  
TBD = To Be Determined

Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells						
Parameter	M75-UBF (Fault Monitoring Well)		M74-O (Fault Monitoring Well)		M77-UBF (Fault Monitoring Well)	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
pH (lab)	TBD	TBD	TBD	TBD	TBD	TBD
Bicarbonate	TBD	TBD	TBD	TBD	TBD	TBD
Calcium	TBD	TBD	TBD	TBD	TBD	TBD
Carbonate	TBD	TBD	TBD	TBD	TBD	TBD
Chloride	TBD	TBD	TBD	TBD	TBD	TBD
Nitrate as nitrogen	TBD	TBD	TBD	TBD	TBD	TBD
Potassium	TBD	TBD	TBD	TBD	TBD	TBD
Sodium	TBD	TBD	TBD	TBD	TBD	TBD
Cation/anion balance	TBD	TBD	TBD	TBD	TBD	TBD
Aluminum	TBD	TBD	TBD	TBD	TBD	TBD
Antimony	TBD	TBD	TBD	TBD	TBD	TBD
Arsenic	TBD	TBD	TBD	TBD	TBD	TBD
Barium	TBD	TBD	TBD	TBD	TBD	TBD
Beryllium	TBD	TBD	TBD	TBD	TBD	TBD
Cadmium	TBD	TBD	TBD	TBD	TBD	TBD
Chromium (total)	TBD	TBD	TBD	TBD	TBD	TBD
Cobalt	TBD	TBD	TBD	TBD	TBD	TBD
Copper	TBD	TBD	TBD	TBD	TBD	TBD
Iron	TBD	TBD	TBD	TBD	TBD	TBD
Lead	TBD	TBD	TBD	TBD	TBD	TBD
Manganese	TBD	TBD	TBD	TBD	TBD	TBD
Mercury	TBD	TBD	TBD	TBD	TBD	TBD
Nickel	TBD	TBD	TBD	TBD	TBD	TBD
Selenium	TBD	TBD	TBD	TBD	TBD	TBD
Thallium	TBD	TBD	TBD	TBD	TBD	TBD
Zinc	TBD	TBD	TBD	TBD	TBD	TBD
Gross Alpha	TBD	TBD	TBD	TBD	TBD	TBD
Adjusted Gross Alpha (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Radium 226 + 228 (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Total Uranium Isotopes (pCi/L)	TBD	TBD	TBD	TBD	TBD	TBD
Total Uranium	TBD	TBD	TBD	TBD	TBD	TBD
Total petroleum hydrocarbons- diesel	TBD	TBD	TBD	TBD	TBD	TBD
Benzene	TBD	TBD	TBD	TBD	TBD	TBD
Ethylbenzene	TBD	TBD	TBD	TBD	TBD	TBD
Toluene	TBD	TBD	TBD	TBD	TBD	TBD
Total Xylene	TBD	TBD	TBD	TBD	TBD	TBD

**Notes:**

AL = alert level  
AQL = Aquifer Quality Limit  
mg/L = milligrams per liter  
pCi/L = picocuries per liter  
TBD = To Be Determined

Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells		
Parameter	M76-O (Fault Monitoring Well)	
	AQL (mg/L)	AL (mg/L)
pH (lab)	TBD	TBD
Bicarbonate	TBD	TBD
Calcium	TBD	TBD
Carbonate	TBD	TBD
Chloride	TBD	TBD
Nitrate as nitrogen	TBD	TBD
Potassium	TBD	TBD
Sodium	TBD	TBD
Cation/anion balance	TBD	TBD
Aluminum	TBD	TBD
Antimony	TBD	TBD
Arsenic	TBD	TBD
Barium	TBD	TBD
Beryllium	TBD	TBD
Cadmium	TBD	TBD
Chromium (total)	TBD	TBD
Cobalt	TBD	TBD
Copper	TBD	TBD
Iron	TBD	TBD
Lead	TBD	TBD
Manganese	TBD	TBD
Mercury	TBD	TBD
Nickel	TBD	TBD
Selenium	TBD	TBD
Thallium	TBD	TBD
Zinc	TBD	TBD
Gross Alpha	TBD	TBD
Adjusted Gross Alpha (pCi/L)	TBD	TBD
Radium 226 + 228 (pCi/L)	TBD	TBD
Total Uranium Isotopes (pCi/L)	TBD	TBD
Total Uranium	TBD	TBD
Total petroleum hydrocarbons- diesel	TBD	TBD
Benzene	TBD	TBD
Ethylbenzene	TBD	TBD
Toluene	TBD	TBD
Total Xylene	TBD	TBD

**Notes:**

AL = alert level  
AQL = Aquifer Quality Limit  
mg/L = milligrams per liter  
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TBD = To Be Determined