TABLE 4.3-8
CALCULATION OF WATER QUALITY IN ALLUVIUM AFFECTED BY BACKFILL SEEPAGE

NO NAME CREEK:

Constituent	ROM Concentration (mg/L)	Volumetric Seepage Rate from ROM above alluvium in A-Panel Area (gpm)	Alluvium Concentration in NNC Area (mg/L)	Volumetric Recharge Rate for Alluvium in NNC Area (gpm)	Mixed Chemistry (mg/L)	% Change	Groundwater Standard	Exceeds Groundwater Standards?	Surface Water Standards	Source of Surface Water Standards	Exceeds Surface Water Standards?
TDS	1,355	0.0269	210.1	10.73	212.974	1.4%	500	No	n/a	---	n/a
Sulfate	876	0.0269	18	10.73	20.144	11.9%	250	No	n/a	---	n/a
Aluminum	0.192	0.0269	0.344	10.73	0.344	-0.1%	0.2	Yes, as does background groundwater	n/a	---	n/a
Antimony	0.0063	0.0269	0.0032	10.73	0.003	0.2%	0.006	No	0.014	DW	No
Cadmium	0.0127	0.0269	0.0001	10.73	0.0001	31.6%	0.005	No	0.001	CCC	No
Manganese	3.367	0.0269	0.0577	10.73	0.066	14.3%	0.05	Yes, as does background groundwater	n/a	---	n/a
Nickel	1.813	0.0269	0.02	10.73	0.024	22.4%	n/a	n/a	0.0157	CCC	Yes, as does background groundwater
Selenium	0.549	0.0269	0.0012	10.73	0.0026	112.0%	0.02	No	0.005	CCC	No

REESE CANYON:

Constituent	ROM Concentration (mg/L)	Volumetric Seepage Rate from ROM above alluvium in B-Panel Area (gpm)	Alluvium Concentration in Reese Canyon Area (mg/L)	Volumetric Recharge Rate for Alluvium in Reese Canyon Area (gpm)	Mixed Chemistry (mg/L)	% Change	Groundwater Standard	Exceeds Groundwater Standards?	Surface Water Standards	Source of Surface Water Standards	Exceeds Surface Water Standards?
TDS	1,355	0.0206	268	4.42	273.051	1.9%	500	No	n/a	---	n/a
Sulfate	876	0.0206	17.71	4.42	21.700	22.5%	250	No	n/a	---	n/a
Aluminum	0.192	0.0206	0.1	4.42	0.100	0.4%	0.2	No	n/a	---	n/a
Antimony	0.0063	0.0206	0.00229	4.42	0.002	0.8%	0.006	No	0.014	DW	No
Cadmium	0.0127	0.0206	0.00037	4.42	0.0004	15.5%	0.005	No	0.001	CCC	No
Manganese	3.367	0.0206	0.07857	4.42	0.094	19.4%	0.05	Yes, as does background groundwater	n/a	---	n/a
Nickel	1.813	0.0206	0.02	4.42	0.028	41.7%	n/a	n/a	0.0157	CCC	Yes, as does background groundwater
Selenium	0.549	0.0206	0.001429	4.42	0.0040	177.9%	0.02	No	0.005	CCC	No