

Attachment 17

Background Concentrations of Chloride, Sodium, Specific Conductance, Sulfate and TDS within the first Hydrostratigraphic Unit (HSU) beneath percolation pits at Buildings 801, 806, 809, 827, 817, and 851¹.

Background monitoring wells screened within the first HSU below each discharge	Number of Samples Evaluated Units	Chloride (mg/L)	Sodium (mg/L)	Specific conductance (µmhos/cm)	Sulfate (mg/L)	Total dissolved solids (TDS) (mg/L)
W-812-05 (HSU Tnbs1) Buildings 801 and 812	5	78	86	780	95²	520
W-827-05 (HSU Tnbs1) Building 827	23	190	330	2200	860³	1900³
W-817-01 (HSU Tnbs2) Buildings 806, 809 and 817	46	200⁴	370	2270⁴	143⁴	1300
W-851-05 (HSU Tmss) Building 851	11	86	370	3500	2900	3200
Water Quality Objectives		250 secondary MCL	30-60 Taste and Odor Threshold	900 Secondary MCL	250 Secondary MCL	500 Secondary MCL

¹ There are no existing monitoring wells near Building 826 cooling tower percolation pit.

² For sulfates, well NC2-11D was used (HSU Tnbs1).

³ TDS and sulfate are based on 4 samples

⁴ Chloride and sulfate are based on 86 samples and Specific conductance is based on 124 samples.