

ATTACHMENT 24

Evaluation of laundry water discharges on ground water quality using the designated level methodology (DLM); comparison of maximum value detected in laundry water samples discharged to septic systems with the DLM for discharges more than 30 feet above ground water using an attenuation factor of 100.

Parameter	Units	Maximum value detected in effluent	Designated level methodology value	Corresponding water quality goal ^a	Source of water quality goal ^a
Aluminum	mg/L	150	100	1	CA primary MCL ^b
Bicarbonate alkalinity (as CaCO ₃)	mg/L	250	None	None	None
Calcium	mg/L	73	None	None	None
Carbonate alkalinity (as CaCO ₃)	mg/L	500	None	None	None
Chloride	mg/L	107	Not applicable	250	CA secondary MCL
Copper	mg/L	0.57	130	1.3	CA primary MCL
Fluoride	mg/L	0.3	200	2	CA primary MCL
HMX	mg/L	0.23	35	0.35	IRIS ^c
Iron	mg/L	90	30	0.3	CA secondary MCL
Magnesium	mg/L	40	None	None	None
Manganese	mg/L	2.2	5	0.05	CA secondary MCL
Nickel	mg/L	0.57	10	0.1	CA primary MCL
Nitrate (as N)	mg/L	0.59	Not applicable	10	CA primary MCL
Nitrate (as NO ₃)	mg/L	2.6	Not applicable	45	CA primary MCL
Oil and grease	mg/L	46	None	None	None
Ortho-phosphate	mg/L	0.84	None	None	None
Potassium	mg/L	18	None	None	None

Continued

ATTACHMENT 24 - CONTINUED

Evaluation of laundry water discharges on ground water quality using the designated level methodology (DLM); comparison of maximum value detected in laundry water samples discharged to septic systems with the DLM for discharges more than 30 feet above ground water using an attenuation factor of 100.

Parameter	Units	Maximum value detected in effluent	Designated level methodology value	Corresponding water quality goal ^a	Source of water quality goal ^a
RDX	mg/L	0.017	0.21	0.0021	IRIS
Sodium	mg/L	500	Not applicable	30-60	Taste & odor threshold
Specific conductance	µmhos/cm	2,000	Not applicable	900	CA secondary MCL
Sulfate	mg/L	193	Not applicable	250	CA secondary MCL
Total alkalinity (as CaCO ₃)	mg/L	750	None	None	None
Total dissolved solids	mg/L	1,450	Not applicable	500	CA secondary MCL
Total hardness (as CaCO)	mg/L	347	None	None	None
Total phosphorus (as P)	mg/L	0.58	None	None	None
Zinc	mg/L	1.3	500	5	CA secondary MCL

^a From A Compilation of Water Quality Goals (Marshack August 2007).

^b MCL – Maximum Contaminant Level

^c IRIS – USEPA Integrated Risk Information System reference dose for drinking water.