

2017 Reporting Year WWTP Pretreatment Data

EFFLUENT	Arsenic	Cadmium	Chromium	Copper	Cyanide	Lead	Mercury	Nickel	Silver	Zinc
EFFLUENT: Year's Recorded High Analyzed as Total Recoverable (mg/L):	0.0118	< 0.00025	< 0.001	0.009	< 0.005	< 0.0005	0.0002	0.0021	< 0.0005	0.034
CMC: Idaho Acute Criteria (mg/L) - Hardness @ 165°		0.00204	0.859	0.0711		0.2302		0.715	0.0082	0.179
CCC: Idaho Chronic Criteria (mg/L) - Hardness @ 165°		0.00076	0.112	0.0454		0.009		0.079		0.181
Effluent under Idaho Average Hardness Criteria?◇		Y	Y	Y		Y		Y	Y	Y
CMC: National Acute Criteria (mg/L)‡	0.34	0.0018	0.57		0.022	0.065	0.0014	0.47	0.0032	0.12
CCC: National Chronic Criteria (mg/L)‡	0.15	0.00072	0.074		0.0052	0.0025	0.00077	0.052		0.12
Effluent under EPA's Natl. Recmd. Water Quality Criteria - Aquatic Life Criteria? ‡	Y	Y	Y		Y	Y	Y	Y	Y	Y
Current Standard Idaho Acute Criteria (mg/L)§	0.34	0.0013	0.57	0.017	0.022	0.065		0.47	0.0034	0.12
Current Standard Idaho Chronic Criteria (mg/L)§	0.15	0.0006	0.074	0.011	0.0052	0.0025		0.052		0.12
Effluent under Standard Idaho Criteria?§	Y	Y	Y	Y	Y	Y		Y	Y	Y
Year's Highest Recorded Avg. Monthly Flow = 10.404 MGD										
Calculated Effluent Loading using Highest Monthly Ave. Flow (Lbs/Day)	1.0238784	0.0216923	0.0867694	0.780924	0.433847	0.043385	0.017354	0.1822157	0.0433847	2.9501582

INFLUENT	Arsenic	Cadmium	Chromium	Copper	Cyanide	Lead	Mercury	Nickel	Silver	Zinc
Date(s) of Recorded High(s)*	3/28	3/30	8/22	9/20	All Sample Dates	8/23	8/22, 8/23, 8/24	8/22	3/29, 8/23	3/28
INFLUENT: Year's Recorded High Analyzed as Total Recoverable (mg/L)	0.0158	0.00044	0.008	0.696	< 0.005	0.0111	0.0002	0.0042	0.0004	0.127
Influent Flow at time of Sampling (MGD)**	7.3297	8.7297	8.1926	7.4922	7.188528	8.4418	8.328333	8.1926	8.06445	7.3297
INFLUENT: Year's Recorded High Analyzed as Total Recoverable (Lbs/day) @ Flow During Sampling	0.9658492	0.0320345	0.5466103	43.48952	0.299762	0.781491	0.013892	0.2869704	0.026903	7.7634716
Highest Month's Average Flow = 10.404 MGD										
INFLUENT: Year's Recorded High Analyzed as Total Recoverable (Lbs/day) @ High Flow (10.404 MGD)	1.3704288	0.0381785	0.6941549	60.39147	0.433847	0.96314	0.017354	0.3644313	0.0347077	11.019709
2000 Technically Based Local Limits Derivation: Maximum Allowable Headworks Loadings (Lbs/day)	0.317	2.03	57.2	6.07	0.817	1.71	0.007	3.36	1.74	14.8
Influent Loading < 2000 TBL MAHL?	N	Y	Y	N	Y	Y	N	Y	Y	Y
2016 Reporting Year Mean Removal Efficiency (MRE)	0.207	0.223	0.824	0.95	0.000	0.898	0.373	0.491	0.294	0.740
Unadjusted AHL: Most Stringent CMC: Acute Criteria (Lbs/day)†	27.058	0.1055874	204.38639	21.45699	1.388	40.216	0.140913	58.273	0.286	29.127
Influent Loading @ High Flow < Unadjusted AHL (CMC)?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Unadjusted AHL: Most Stringent CCC: Chronic Criteria (Lbs/day)†	11.937	0.0487326	26.534373	13.88393	0.328	1.547	0.077502	6.447		29.127
Influent Loading @ High Flow < Unadjusted AHL (CCC)?	Y	N	Y	Y	N	Y	Y	Y		Y
Adjusted AHL: EPA Equation 5.6 which adjusts for receiving water characteristics‡		0.7362069								
Influent Loading @ Ave Flow < Adjusted AHL (CCC)?		Y								

◇ Average effluent hardness over the 2016 reporting year = 167 mg/L ; See "Hardness" tab for details

◇ Hardness Dependent Metals Spreadsheet. IDEQ Water Quality Standards. <http://www.deq.idaho.gov/water-quality/surface-water/standards/> (accessed Oct 19, 2016). "Criteria" tabs downloaded from this website. Hydrologic Unit Code 17050114 criteria used for Lead and Copper.

‡ <https://www.epa.gov/wqc/national-recommended-water-quality-criteria-aquatic-life-criteria-table> (accessed Oct 19, 2016).

§ Section 210. Water Quality Standards. Idaho Department of Environmental Quality. Idaho Administrative Code. <https://adminrules.idaho.gov/rules/current/58/0102.pdf> (accessed Oct 19, 2016). Hardness defaults to 100 mg/L for IDEQ's standards.

*If the recoded high results are the same for more than one day, then the flows for those days are averaged

**Flow is averaged over the composite start and stop time