

Brigham City Maximum Allowable Headwork Load Analysis

Design Flow 4 MGD
Sludge Flow 29000 lbs/day

CONSTITUENT	Est. Statement of Basis End-of-pipe Standard lbs/day	Removal Efficiency %	Water Quality Allowable MAHL lbs/day	Table 3 Concentration PPM	Biosolids Allowable MAHL lbs/day	Governing MAHL lbs/day	Type of Limit
ALUMINUM			0.00	N/A	N/A	0.00	Daily Maximum
ARSENIC	4.414	49%	8.65	41	2.427	2.43	30 Day Average
CADMIUM	0.026	64%	0.07	39	1.767	0.07	Daily Maximum
CHROMIUM	0.443	82%	2.46	N/A	N/A	2.46	Daily Maximum
COPPER	1.044	87%	8.03	1500	50.000	8.03	Daily Maximum
CYANIDE	0.852	35%	1.31	N/A	N/A	1.31	Daily Maximum
LEAD	0.560	63%	1.51	300	13.810	1.51	Daily Maximum
MERCURY	0.001	95%	0.01	17	0.519	0.011	Daily Maximum
MOLYBDENUM	N/A	29%	N/A	75	7.500	7.50	Daily Maximum
NICKEL	5.824	38%	9.39	420	32.053	9.39	Daily Maximum
SELENIUM	0.192	48%	0.37	36	2.175	0.37	Daily Maximum
SILVER	0.970	77%	4.22	N/A	N/A	4.22	Daily Maximum
ZINC	11.777	62%	30.99	2800	130.968	30.99	Daily Maximum

Note 1: The Previous Design Flow has been used for determination of water quality MAHL based on State use of the value in the Estimated State

Note 2: The peak biosolids flow for 2010 was used in determining the biosolids allowable MAHL.

Note 3: Molybdenum is a table 1 rather than table 3 value.