

Brigham City Local Limit Calculations

7/19/2011

	WLA Acute ug/l	WLA Chronic ug/l	Controlling Criteria (chronic unless shown)	1.5															Local Limits (LL)	
				MAHL		Removal	-DMR value	Dom Load	MAIL		SF	AIL w/ P&G		P&G Load	P&G Flow	AIL		LL mg/L		
				acute	chronic				acute	chronic		acute	chronic			acute	chronic	acute	chronic	acute
Arsenic	132.32	250.92	Biosolids Controls	4.414216	8.370837	2.43	0.49	0.01	0.1251	2.3049	0.25	1.728675	0.1251	1.5	1.603575	1.922752				
Cadmium	7.56	0.78		0.252125	0.026103	0.700347	0.64	0.0025	0.003128	0.697219	0.06938	0.25	0.522914	0.052035	0.003128	1.5	0.519787	0.048907		
Chromium (III)	5150.08	280.15		171.8068	9.345898	264.3182	14.3783	0.35	0.0025	0.031275	264.2869	14.34703	0.25	198.2152	10.76027	0.031275	1.5	198.1839	10.729	
Chromium (VI)	17.94	13.27		0.598588	0.442705	3.325487	2.45947	0.82	0	3.325487	2.45947	0.25	2.494116	1.844603	0	1.5	2.494116	1.844603		
Copper	45.65	31.30		1.523019	1.04432	11.71553	8.033227	0.87	0.06	0.7506	10.96493	7.282627	0.25	8.223698	5.46197	0.7506	1.5	7.473098	4.71137	
Cyanide	25.56	6.88		0.852524	0.229539	1.311575	0.353137	0.35	0	1.311575	0.353137	0.25	0.983681	0.264853	0	1.5	0.983681	0.264853		
Lead	132.06	16.79		4.405644	0.560114	11.90715	1.513822	0.63	0.01	0.1251	11.78205	1.388722	0.25	8.836535	1.041542	0.1251	1.5	8.711435	0.916442	
Mercury	0.20	0.02		0.006621	0.000529	0.132426	0.010573	0.95	0.00134	0.001676	0.13075	0.008896	0.25	0.098063	0.006672	0.001676	1.5	0.096386	0.004996	
Molybdenum			Biosolids Controls			7.5		0.29	0.002	0.02502	7.47498		0.25	5.606235		0.02502	1.5	5.581215		
Nickel	1380.36	174.58		46.04897	5.823992	74.27254	9.993536	0.38	0.0025	0.031275	74.24126	9.362261	0.25	55.68085	7.021696	0.031275	1.5	55.64967	6.990421	
Selenium	23.07	5.76		0.769631	0.192272	1.480059	0.369753	0.48	0.01	0.1251	1.354959	0.244653	0.25	1.016219	0.18349	0.1251	1.5	0.991119	0.05839	
Silver	29.09	N/A	Acute Controls	0.970355		4.218936		0.77	0.0025	0.031275	4.187661		0.25	3.140746		0.031275	1.5	3.109471		
Zinc	353.04	402.14	Acute Controls	11.77735	13.41545	30.99302		0.62	0.13	1.6263	29.36672		0.25	22.02504		1.6263	1.5	20.39874		

Flow for other SIUs = 0.1