

Estimated and target daily Total Suspended Solids (TSS) loads for the Portneuf River at Topaz (expressed based on monthly averages in tons/day). Estimated loads represent the product of average monthly flow and TSS/SSC concentrations from monthly sampling activities or from predicted TSS concentrations using the average monthly discharge at the USGS Topaz gage.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004 Estimated TSS load	3.8	3.8	9.4	7.6	13.4	4.9	8.6	6.8	6.9	4.1	1.3	1.9
2004 Target load*	8.3	8.3	11.3	27.8	28.3	32.7	13.6	8.2	6.7	6.3	9.1	9.3
2005 Estimate TSS load	4.6	4.3	3.8	14.0	60.6	29.3	8.2	6.7	4.6	3.0	5.7	1.9
2005 Target load*	9.0	8.7	13.5	36.1	53.9	46.9	20.7	13.1	7.7	7.6	10.9	11.0
2006 Estimated TSS load	6.1	3.2	4.9	428	307	64.5	20.0	7.6	7.9	4.3	3.3	1.6
2006 Target load*	12.8	10.3	15.5	107.7	149.9	62.1	17.0	14.3	12.1	12.5	13.1	12.0
Average TSS load (04 to 06)	4.8	3.8	6.0	149.9	127	32.9	12.3	7.0	6.5	3.8	3.4	1.8
Target load using 10th percentile Q from USGS Topaz Gage	10.7	11.5	12.9	33.5	41.1	38.9	13.1	9.1	7.9	8.1	10.8	11.2
Reduction required based on 04 to 06 average loads and 10th percentile Q from USGS Topaz Gage	0%	0%	0%	78%	67%	0%	0%	0%	0%	0%	0%	0%
Lava HS WWTP TSS waste load		0.004	0.004	0.004								
Lava HS TSS waste load allocation		0.04	0.04	0.04								
Waste load reduction required		0%	0%	0%								

*Target loads based on 35 and 80 mg/L low and high flow TSS targets. The months of April, May, and June have been established as high flow months for the Topaz monitoring site. Waste load targets are based on the City of Lava's NPDES permit (monthly limit of 86 lbs TSS/day). City of Lava's WWTP loads were calculated from discharge and water quality sampling conducted in 2002 and 2003 and reflect approximately 7 days of TSS loading (8.2 lbs/day) each month from February to April.

Estimated and target daily Total Suspended Solids (TSS) loads for the Portneuf River above Marsh Creek (expressed based on monthly averages in tons/day). Estimated loads represent the product of average monthly discharge and TSS/SSC concentrations from monthly sampling activities.												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004 Estimated TSS load	2.7	2.7	12.2	1.7	0.6	0.6	0.2	0.2	0.2	0.5	1.3	1.1
2004 Target load*	8.4	8.4	27.6	26.9	5.6	2.0	1.5	1.2	1.3	3.2	9.4	9.6
2005 Estimate TSS load	3.5	1.3	12.7	21.9	54.9	20.0	0.4	2.2	0.7	7.2	5.2	3.2
2005 Target load*	9.3	8.9	33.6	39.7	56.3	16.3	2.1	1.6	1.6	7.4	11.5	11.7
2006 Estimated TSS load	6.7	8.1	11.2	1015	542.5	37.4	2.4	0.8	0.6	8.8	7.4	7.8
2006 Target load*	13.8	10.8	38.9	125.5	159.6	13.8	2.3	2.0	2.4	12.9	14.2	12.8
Average TSS load (04 to 06)	4.3	4.0	12.0	346.0	199.3	19.3	1.0	1.0	0.5	5.5	4.7	4.0
Target load using 2004 Q (3rd percentile) at Portneuf River above Marsh Creek predicted from USGS Topaz and Pocatello Gages	8.4	8.4	27.6	26.9	5.6	2.0	1.5	1.2	1.3	3.2	9.4	9.6
Reduction required based on 04 to 06 average loads and 2004 Q (3rd percentile) at Portneuf River above Marsh Creek predicted from USGS Topaz and Pocatello Gages	0%	0%	0%	92%	97%	90%	0%	0%	0%	42%	0%	0%
*Target loads based on 35 and 80 mg/L low and high flow TSS targets. The months of March, April, and May have been established as high flow months.												

Estimated and target daily Total Suspended Solids (TSS) loads for Lower Marsh Creek (expressed based on monthly averages in tons/day). Estimated loads represent the product of average monthly discharge and TSS/SSC concentrations from monthly sampling activities.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004 Estimated TSS load	3.4	4.0	50.6	7.1	2.7	0.7	1.8	1.1	0.6	2.4	4.3	10.4
2004 Target load*	4.2	4.4	19.0	11.8	9.7	4.7	3.9	3.3	4.4	6.3	5.6	5.9
2005 Estimate TSS load	7.2	8.0	39.2	15.0	37.6	12.3	1.9	1.4	3.8	4.3	4.6	17.3
2005 Target load*	5.6	5.5	25.0	18.7	27.6	10.8	5.6	3.8	5.3	6.7	6.2	7.3
2006 Estimated TSS load	31.5	84.4	179.7	138.8	85.1	11.4	10.3	3.5	10.8	6.4	8.6	13.2
2006 Target load*	11.0	8.5	35.9	50.5	40.3	8.0	6.4	5.0	7.3	7.4	7.5	7.1
Average TSS load (04 to 06)	14.0	32.1	89.8	53.6	41.8	8.1	4.6	2.0	5.1	4.3	5.9	13.6
Target load using 10th percentile Q at Lower Marsh Creek predicted from USGS Marsh Creek Gage	5.6	6.5	19.2	13.9	9.7	3.9	3.6	3.5	4.9	6.0	5.7	5.9
Reduction required based on 04 to 06 average loads and 10th percentile Q at Lower Marsh Creek predicted from USGS Marsh Creek Gage	60%	80%	79%	74%	77%	52%	22%	0%	4%	0%	3%	57%

*Target loads based on 35 and 80 mg/L low and high flow TSS targets. The months of March, April, and May have been established as high flow months.

Estimated and target daily Total Suspended Solids (TSS) loads for the Portneuf River at Edson Fichter Nature Area (EFNA; expressed based on monthly averages in tons/day). Estimated loads represent the product of average monthly flow and TSS/SSC concentrations from monthly sampling activities.												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004 Estimated TSS load	8.2	28.5	64.7	36.8	9.6	7.9	1.6	1.2	0.4	0.9	3.7	11.5
2004 Target load*	12.5	29.1	54.1	52.6	21.3	6.2	2.4	1.4	2.6	6.6	11.7	13.4
2005 Estimate TSS load	10.4	4.7	49.3	47.7	149.4	83.5	2.6	3.7	2.2	12.2	21.5	7.9
2005 Target load*	13.5	29.9	56.1	57.8	92.0	27.6	4.0	2.5	4.3	13.3	17.6	19.0
2006 Estimated TSS load	49.3	96.4	254.4	844.4	330.7	75.0	8.1	5.0	13.9	25.7	18.3	15.6
2006 Target load*	22.8	39.4	73.7	193.8	222.3	23.4	6.7	4.5	10.9	20.0	23.2	21.6
Average TSS load (04 to 06)	22.6	43.2	122.8	309.6	163.2	55.5	4.1	3.3	5.5	12.9	14.5	11.6
Target load using 10th percentile Q at Batiste predicted from USGS Pocatello Gage	16.2	41.1	54.9	52.2	20.2	4.0	1.5	2.0	3.6	7.0	13.0	16.5
Reduction required based on 04 to 06 average loads and 10th percentile Q at Batiste predicted from USGS Pocatello Gage	28%	5%	55%	83%	88%	93%	63%	39%	35%	46%	10%	0%
City of Inkom WWTP TSS waste load	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
City of Inkom waste load allocation	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Waste load reduction required	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
*Target loads based on 35 and 80 mg/L low and high flow TSS targets. The months of February, March, April, and May have been established as high flow months for the EFNA monitoring site. Waste load targets are based on the City of Inkom's NPDES permit (26 lbs TSS/day). City of Inkom WWTP discharge and TSS records were taken from the IDEQ's DMR database.												

Estimated and target daily Total Suspended Solids (TSS) loads for the Portneuf River at Batiste Rd (expressed based on monthly averages in tons/day). Estimated loads represent the product of average monthly flow and TSS/SSC concentrations from monthly sampling activities.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004 Estimated TSS load	2.1	18.4	92.6	52.8	11.0	6.7	7.3	1.9	1.1	3.2	6.2	13.6
2004 Target load*	14.4	33.5	60.2	58.7	25.2	7.6	3.5	2.5	3.8	8.1	13.6	15.4
2005 Estimate TSS load	12.4	8.6	80.4	99.6	192.9	85.6	2.7	1.2	3.7	14.8	17.0	9.2
2005 Target load*	15.4	34.3	62.4	64.3	100.8	30.6	5.3	3.6	5.6	15.3	19.9	21.4
2006 Estimated TSS load	45.5	176.3	257.9	895.3	378.9	81.3	8.5	1.8	9.8	33.0	18.5	13.3
2006 Target load*	25.5	44.5	81.3	210.0	240.6	26.1	8.1	5.8	12.7	22.4	25.8	24.2
Average TSS load (04 to 06)	20.0	67.8	143.6	349.2	194.2	57.9	6.2	1.6	4.9	17.0	13.9	12.0
Target load using 10th percentile Q at Batiste predicted from USGS Pocatello Gage	18.3	46.3	61.1	58.2	23.9	5.3	2.6	3.2	4.9	8.5	14.9	18.6
Total load and waste load reductions required based on 04 to 06 average loads and 10th percentile Q at Batiste predicted from USGS Pocatello Gage	9%	32%	57%	83%	88%	91%	58%	0%	0%	50%	0%	0%
Average (based on 04 to 06 loads) City of Pocatello stormwater TSS waste load	0	24.6	20.8	39.6	31.0	2.4	2.0	0	0	4.0	0	0.4
Average (based on 04 to 06 loads) City of Pocatello stormwater TSS waste load allocation	2.7	6.7	8.0	9.8	9.8	2.7	1.5	1.5	1.7	2.2	2.6	2.4
Stormwater TSS waste load reduction required	0%	73%	62%	75%	68%	0%	25%	0%	0%	45%	0%	0%
TSS Load reduction required	9%	7%	53%	82%	86%	91%	54%	0%	0%	44%	0%	0%

*Target loads based on 35 and 80 mg/L low and high flow TSS targets. The months of February, March, April, and May have been established as high flow months for the Batiste monitoring site. Waste loads for the City of Pocatello's stormwater are presented as the difference in TSS load estimates from the Batiste and EFNA monitoring stations. Waste load allocations were established using the difference in discharge between the Batiste and EFNA monitoring stations multiplied by the high and low flow TSS targets.

Estimated and target daily Total Suspended Solids (TSS) loads for the Portneuf River at Siphon Rd (expressed based on monthly averages in tons/day). Estimated loads represent the product of average monthly flow and TSS/SSC concentrations from monthly sampling activities.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004 Estimated TSS load	58.6	42.1	106.8	82.1	11.4	8.5	20.6	3.5	3.7	4.3	5.1	15.0
2004 Target load*	36.6	84.3	111.0	109.4	75.9	29.8	25.8	24.7	26.0	30.3	35.8	37.6
2005 Estimate TSS load	36.6	23.4	147.1	99.2	272.9	57.3	7.8	2.5	2.6	7.5	10.8	47.9
2005 Target load*	37.7	85.1	113.2	115.0	151.6	52.8	27.5	25.9	27.8	37.5	42.1	43.6
2006 Estimated TSS load	64.0	119.1	102.3	818.2	396.9	102.2	21.2	5.0	7.4	25.7	25.3	30.5
2006 Target load*	47.7	95.2	132.0	260.8	291.3	48.3	30.4	28.1	34.9	44.6	48.0	46.4
Average TSS load (04 to 06)	53.1	61.5	118.8	333.2	227.1	56.0	16.5	3.7	4.6	12.5	13.7	31.1
Target load using 10th percentile Q at Siphon predicted from Batiste Q + estimated average groundwater gains between Batiste and Siphon Monitoring Stations	40.5	97.1	111.9	109.0	74.7	27.5	24.8	25.4	27.1	30.7	37.1	40.8
Reduction required based on 04 to 06 average loads and 10th percentile Q at Siphon predicted from Batiste Q + estimated average groundwater gains between Batiste and Siphon Monitoring Stations	24%	0%	6%	67%	67%	51%	0%	0%	0%	0%	0%	0%
City of Pocatello WWTP TSS waste load	0.2	0.2	0.1	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.3	0.2
City of Pocatello WWTP TSS waste load allocation	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
WWTP TSS waste load reduction required	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TSS Load reduction required	24%	0%	6%	67%	67%	51%	0%	0%	0%	0%	0%	0%

*Target loads based on 35 and 80 mg/L low and high flow TSS targets. TSS waste load targets based on the City of Pocatello's NPDES permit of (3,000 lbs TSS/day). City of Pocatello WWTP discharge records are from the IDEQ's DMR database.