

**Table 12. Summary of values used to calculate existing sediment loads in AU 002\_04 and AU 003\_04 of Indian Creek.**

Existing Annual Average Flow and Suspended Sediment Concentration		
AU 003_04		
Source	Annual Average Flow (cfs)	Annual Average Concentration (mg/L)
Natural background	44.73	4.5
Storm water (includes MS4, CGP, aquaculture, MSGP, AFO)	0.0003	51
Point source facility discharge	31.28	51.25
Nonpoint source (Agriculture)	44.73	8.88
AU 002_04		
Outside source	45.45	9.6
Natural background	46.71	4.5
Storm water (includes MS4, CGP, aquaculture, MSGP, AFO)	0.0002	51
Point source facility discharge	18.25	30
Nonpoint source (Agriculture)	86	37

MS4 = municipal separate storm sewer system; CGP = construction general permit, MSGP = multisector general permit facility, AFO = animal feeding operation, WWTP = Waste Water Treatment Plant

**Table 13. Current point source waste loads in assessment unit (AU) 003\_04 and AU 002\_04 of Indian Creek.**

Waste load Type	Location	Existing Annual Average Load	NPDES <sup>a</sup> Permit Number
AU 003_04			
Suspended Solids or (Sediment)	MS4*	0.071 lbs/day (51mg/L estimated)	IDS-028177 IDS-028142 IDS-028134
	Kuna WWTP	871 lbs/day; Existing--15.5 lbs/day	ID0028355
	XL Four Star Beef	125 lbs/day; Existing--34.48 lbs/day	ID0000787
	MSGPs	Estimated—0.0008 lbs/day	IDR050000
	Aquaculture	0.4 lbs/day	IDG131006

Waste load Type	Location	Existing Annual Average Load	NPDES <sup>a</sup> Permit Number
<b>AU 002_04</b>			
Suspended Solids (Sediment)	Nampa WWTP —	Permitted—2,953 lbs <sup>c</sup> /day Existing—157 lbs/day	ID-002206-3
	MS4*	0..5506 lbs/day (51 mg/L estimated)	IDS-028126 IDS-028177 IDS-028142 IDS-028134 IDS-028118
	MSGPs	Estimated—0.0002 lbs/day	IDR050000
Bacteria (E. coli) g	Nampa WWTP	Permitted—FCd 800cfu/100mL single-sample cfue; 200cfuf/100mL weekly/monthly Existing—Annual average difference between upstream and downstream FC concentrations-- (134 cfu/100mL	ID-002206-3
	MS4*	Undetermined	IDS-028126 IDS-028177 IDS-028142 IDS-028134 IDS-028118
	MSGPs	Undetermined	IDR050000

<sup>a</sup> National Pollutant Discharge Elimination System; <sup>b</sup>WWTP = Waste water treatment plant; <sup>c</sup>pounds; <sup>d</sup>FC = Fecal coliform; <sup>e</sup>mL = milliliter; <sup>f</sup>cfu = colony forming units; <sup>g</sup> *E. coli* = *Escherichia coliform*; MS4 = municipal separate storm sewer system; MSGP = multi-sector general permits; \* includes animal feeding operations (AFOs), aquaculture, and construction general permits (CGPs)

**Table 14. Current nonpoint source loads in assessment unit (AU) 003\_04 and 002\_04 of Indian Creek.**

Pollutant Type	Source and Location	Existing Annual Average Load	Range of Monthly Average Single-Sample Concentrations	Calculated Long-Term Geomean Values
<b>AU 003_04</b>				
Sediment	Natural Background	1,086 lbs <sup>a</sup> /day	4.5 mg/L <sup>b</sup>	
	Storm water (urban)	0.082 lbs/day	51 mg/L estimated	
	Agriculture	Undetermined	Undetermined	
Bacteria ( <i>E. coli e<sup>g</sup></i> )	Natural Background	0.9 cfu <sup>d</sup> /100 mL	0.9 to 26 cfu/100 mL	4.6 cfu/100 mL
	Storm water	Undetermined	Undetermined	Undetermined
	Agriculture	Undetermined	Undetermined	Undetermined
	Groundwater*	<1 to 55 cfu/100 mL	<1 to 55 cfu/100 mL	<1 to 55 cfu/100mL
<b>AU 002_04</b>				
Sediment	Natural Background	1,135 lbs/day	4.5 mg/L	
	Agriculture	17,183 lbs/day	22.94 to 76.61 mg/L	
Bacteria ( <i>E. coli</i> )	Natural Background	8 cfu/100 mL	8 cfu/100 mL	4.6 estimated cfu/100 mL
	Agriculture	267 cfu/100 mL	150 to 881 cfu/100 mL	394 cfu/100 mL estimated
	Groundwater*	<1 to 55 cfu/100 mL	<1 to 55 cfu/100 mL	<1 to 55 cfu/100mL

<sup>a</sup>pounds; <sup>b</sup>mL = milliliters; <sup>c</sup>nd = no data; <sup>d</sup>cfu = colony forming units; <sup>e</sup> *E. coli* = *Escherichia coliform*; \* includes septic system contribution

**Table 19. Flow-dependent target load allocation table for suspended sediment in the Indian Creek watershed.**

Suspended Sediment Target Load Table									
Flow (cfs)	Maximum Load (lbs/day)	Flow (cfs)	Maximum Load (lbs/day)	Flow (cfs)	Maximum Load (lbs/day)	Flow (cfs)	Maximum Load (lbs/day)	Flow (cfs)	Maximum Load (lbs/day)
1	118.8	49	5,821.2	95	11,286.0	141	16,750.8	187	22,215.6
5	594.0	51	6,058.8	97	11,523.6	143	16,988.4	189	22,453.2
7	831.6	53	6,296.4	99	11,761.2	145	17,226.0	191	22,690.8
9	1,069.2	55	6,534.0	101	11,998.8	147	17,463.6	193	22,928.4
11	1,306.8	57	6,771.6	103	12,236.4	149	17,701.2	195	23,166.0
13	1,544.4	59	7,009.2	105	12,474.0	151	17,938.8	197	23,403.6
15	1,782.0	61	7,246.8	107	12,711.6	153	18,176.4	199	23,641.2
17	2,019.6	63	7,484.4	109	12,949.2	155	18,414.0	201	23,878.8
19	2,257.2	65	7,722.0	111	13,186.8	157	18,651.6	203	24,116.4
21	2,494.8	67	7,959.6	113	13,424.4	159	18,889.2	205	24,354.0
23	2,732.4	69	8,197.2	115	13,662.0	161	19,126.8	207	24,591.6
25	2,970.0	71	8,434.8	117	13,899.6	163	19,364.4	209	24,829.2
27	3,207.6	73	8,672.4	119	14,137.2	165	19,602.0	211	25,066.8
29	3,445.2	75	8,910.0	121	14,374.8	167	19,839.6	213	25,304.4
31	3,682.8	77	9,147.6	123	14,612.4	169	20,077.2	215	25,542.0
33	3,920.4	79	9,385.2	125	14,850.0	171	20,314.8	217	25,779.6
35	4,158.0	81	9,622.8	127	15,087.6	173	20,552.4	219	26,017.2
37	4,395.6	83	9,860.4	129	15,325.2	175	20,790.0	221	26,254.8
39	4,633.2	85	10,098.0	131	15,562.8	177	21,027.6	223	26,492.4
41	4,870.8	87	10,335.6	133	15,800.4	179	21,265.2	225	26,730.0
43	5,108.4	89	10,573.2	135	16,038.0	181	21,502.8	227	26,967.6
45	5,346.0	91	10,810.8	137	16,275.6	183	21,740.4	229	27,205.2
47	5,583.6	93	11,048.4	139	16,513.2	185	21,978.0	231	27,442.8

cfs = cubic feet per second; lbs/day = pounds per day

**Table 20. Point source waste load allocations (WLAs) for Indian Creek AU 003\_04 and AU 002\_04.**

Source	Pollutant	Allocation	Time Frame for Meeting Allocations
<b>AU 002_04</b>			
Nampa WWTP	Sediment (Suspended Solids or Sediment)	2,956 lbs <sup>c</sup> /day; 30 mg/L <sup>d</sup>	Existing WLA per NPDES permit ID-002206_03.
Nampa WWTP	Bacteria ( <i>E. coli</i> )	Single-sample--576 cfu <sup>e</sup> /100mL; Geomean (WQS <sup>f</sup> )—126 cfu/100mL	At the time EPA develops a new NPDES permit or renews the existing permit ID-002206_03
MSGPs*	Sediment (Suspended Solids or Sediment)	0.0001 lbs/day; 26 mg/L annual average. Reduction of 50%.	Phased implementation, 30% by 2016, 65% by 2021, 100% by 2026, or as required in compliance with MS4 permits.
MSGPs*	Bacteria ( <i>E. coli</i> )	Single-sample--576 cfu <sup>e</sup> /100mL; Geomean (WQS <sup>f</sup> )—126 cfu/100mL	Existing requirement in accordance with Idaho WQS. Numeric WLAs may be included in future permits.

Source	Pollutant	Allocation	Time Frame for Meeting Allocations
Storm water (MS4 and CGP*)	Sediment (Suspended Solids or Sediment)	0.28 lbs/day; 26 mg/L annual average. Reduction of 50%.	Phased implementation, 30% by 2016, 65% by 2021, 100% by 2026, or as required in compliance with MS4 permits.
Storm water (MS4 and CGP*)	Bacteria ( <i>E. coli</i> )	Single-sample--576 cfu <sup>e</sup> /100mL; Geomean (WQS <sup>f</sup> )—126 cfu/100mL	Existing requirement in accordance with Idaho WQS. Numeric WLAs may be included in future permits.
AFOs (permit IDG01000)	Sediment	No discharge except during storm events greater than the 25-year 24-hour extreme.	As required by EPA permit.
AFOs (permit IDG01000)	Bacteria	No discharge except during storm events greater than the 25-year 24-hour extreme.	As required by EPA permit.

<sup>a</sup>WWTP = Waste water treatment plant; <sup>b</sup>NPDES = National Pollutant Discharge Elimination System; <sup>c</sup>lbs = pounds; <sup>d</sup>mL = milliliter; <sup>e</sup>cfu = colony forming units; <sup>f</sup>WQS = water quality standards; MS4 = municipal separate storm sewer system; \* No dry weather LA

**Table 21. Nonpoint source load allocations (LAs) for Indian Creek assessment units (AUs) 003\_04 and 002\_04.**

Source	Pollutant	Allocation	Time Frame for Meeting Allocations
<b>AU 002_04</b>			
Natural Background	Sediment	1,135 lbs/day; 4.5 mg/L annual average.	Presently met.
Outside Source (Delivered from AU 003_04)	Sediment	2,356 lbs/day; 9.6 mg/L annual average.	Presently met.
Agriculture	Sediment	9,936 lbs/day; 19.67 mg/L annual average. Reduction of 46%.	Phased implementation, 30% by 2016, 65% by 2021, 100% by 2026, or as required in compliance with MS4 permits.
Background Source	Bacteria ( <i>E. coli</i> )	Single-sample--576 cfu/100mL; Geomean (WQS)—126 cfu/100mL.	Presently met.
Agriculture	Bacteria ( <i>E. coli</i> )	Single-sample--576 cfu/100mL; Geomean (WQS)—126 cfu/100mL. Reduction of 75% during the irrigation season and 49% during the non-irrigation season.	Phased implementation, 30% by 2016, 65% by 2021, 100% by 2026, or as required in compliance with MS4 permits.

lbs = pounds; *E. coli* = *Escherichia coliform*; cfu = colony forming units; mL = milliliters; WQS = water quality standards; \* no dry weather LA