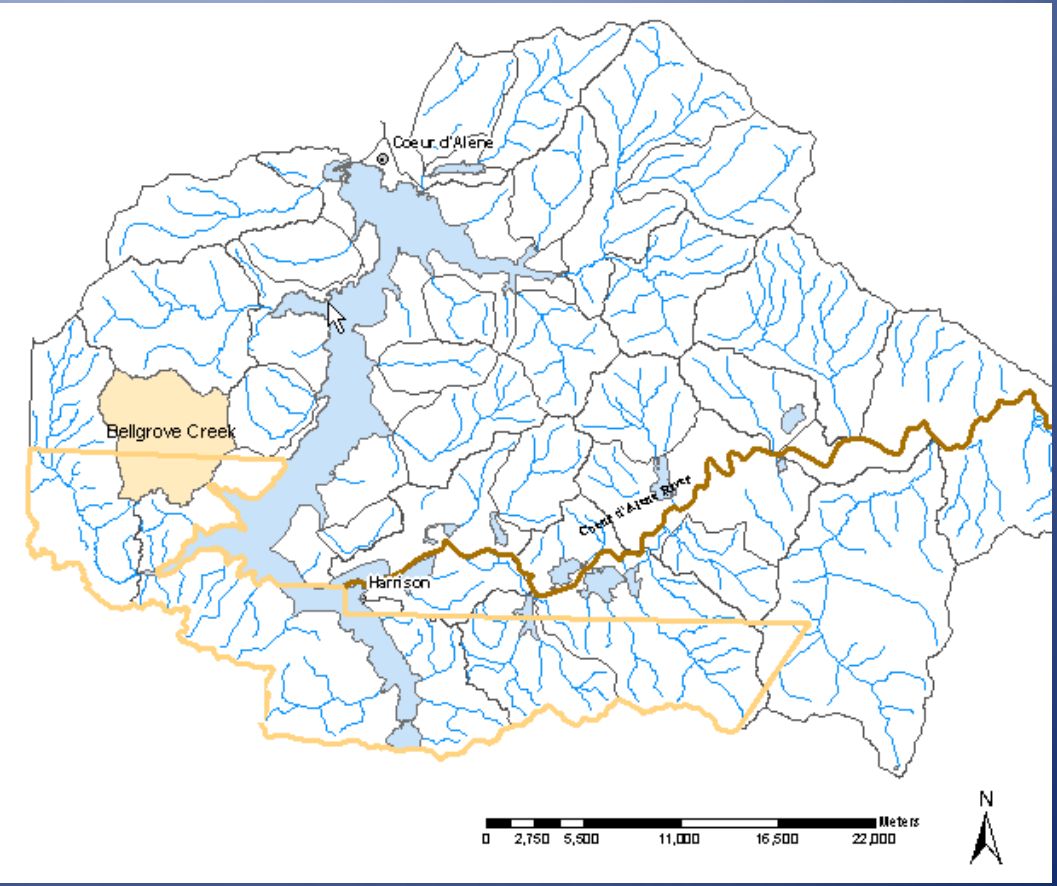
Bellgrove Creek

Update to the Coeur d'Alene Lake Tributaries WAG

Oct 5th 2011

Fighting Creek
(aka Bellgrove Creek)

- Drains a 6.1 mile^2 watershed on the southwest side of Coeur d'Alene Lake
- Part of the watershed is within Coeur d'Alene Tribal boundaries
- Currently listed on Idaho's 2008 Integrated Report as impaired for *E. coli* due to violations of Water Quality Standards in 2005 and 2007
- In 2008 BURP scores conclude beneficial uses are not supported



E. Coli enumeration results on Bellgrove Creek, 2005 & 2007

*Location	Date	CFU	Date	CFU	Date	CFU	Date	CFU	Date	CFU	Date	CFU	Geo-mean
Above elk facility (but below 95 bridge)	5/10/2007	40	5/15/2007	19	5/18/2007	54	5/22/2007	88	5/25/2007	120	5/29/2007	61	53
Downstream elk facility	6/15/2005	3100	6/29/2005	13800	7/6/2005	5900	7/12/2005	8400	7/26/2005	1800	--	--	5204
1/3 mile downstream elk facility	--	--	6/29/2005	4200	7/6/2005	320	7/12/2005	390	7/26/2005	1900	--	--	999
¾ mile below elk facility	5/10/2007	1600	5/15/2007	400	5/18/2007	250	5/22/2007	930	5/25/2007	450	5/29/2007	450	923
Fighting Creek 0.2 miles below conf. of Bellgrove	5/10/2007	97	5/15/2007	230	5/18/2007	80	5/22/2007	300	5/25/2007	6	5/29/2007	70	80

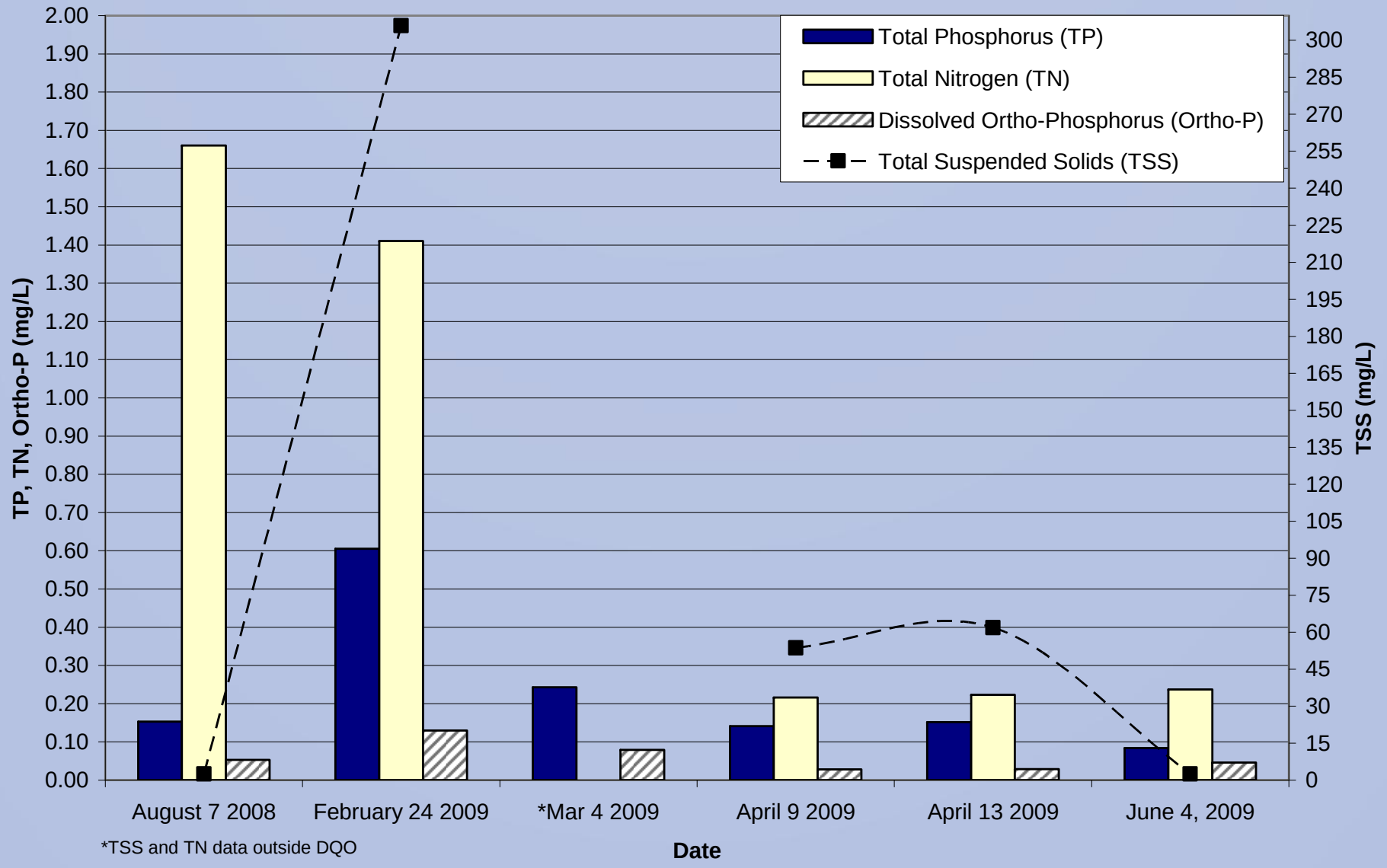
- Idaho's Water Quality Standard for primary contact recreation is 406 *E. coli* organisms per 100 ml.
- Four samples are taken no more than a week apart over thirty days to calculate a geometric mean . Idaho's Water Quality Standard for a geometric mean of 126 *E. coli* organisms per 100 ml.

University of Idaho E. Coli enumeration results on Bellgrove Creek, 2011

*Location	Date	CFU	Date	CFU	Date	CFU	Date	CFU	Date	CFU	Geo-mean
Above elk facility (but below 95 bridge)	5/16/2011	649	5/23/2011	18	5/31/2011	34	6/6/2011	135	6/13/2011	121	92
Downstream elk facility	5/16/2011	2420	5/23/2011	142	5/31/2011	727	6/6/2011	2419	6/13/2011	1986	1037
1/3 mile downstream elk facility	--	--	5/23/2011	816	5/31/2011	48	6/6/2011	162	6/13/2011	167	172
Fighting Creek 0.2 miles below conf. of Bellgrove	--	--	5/23/2011	920	5/31/2011	111	6/6/2011	46	6/13/2011	113	100

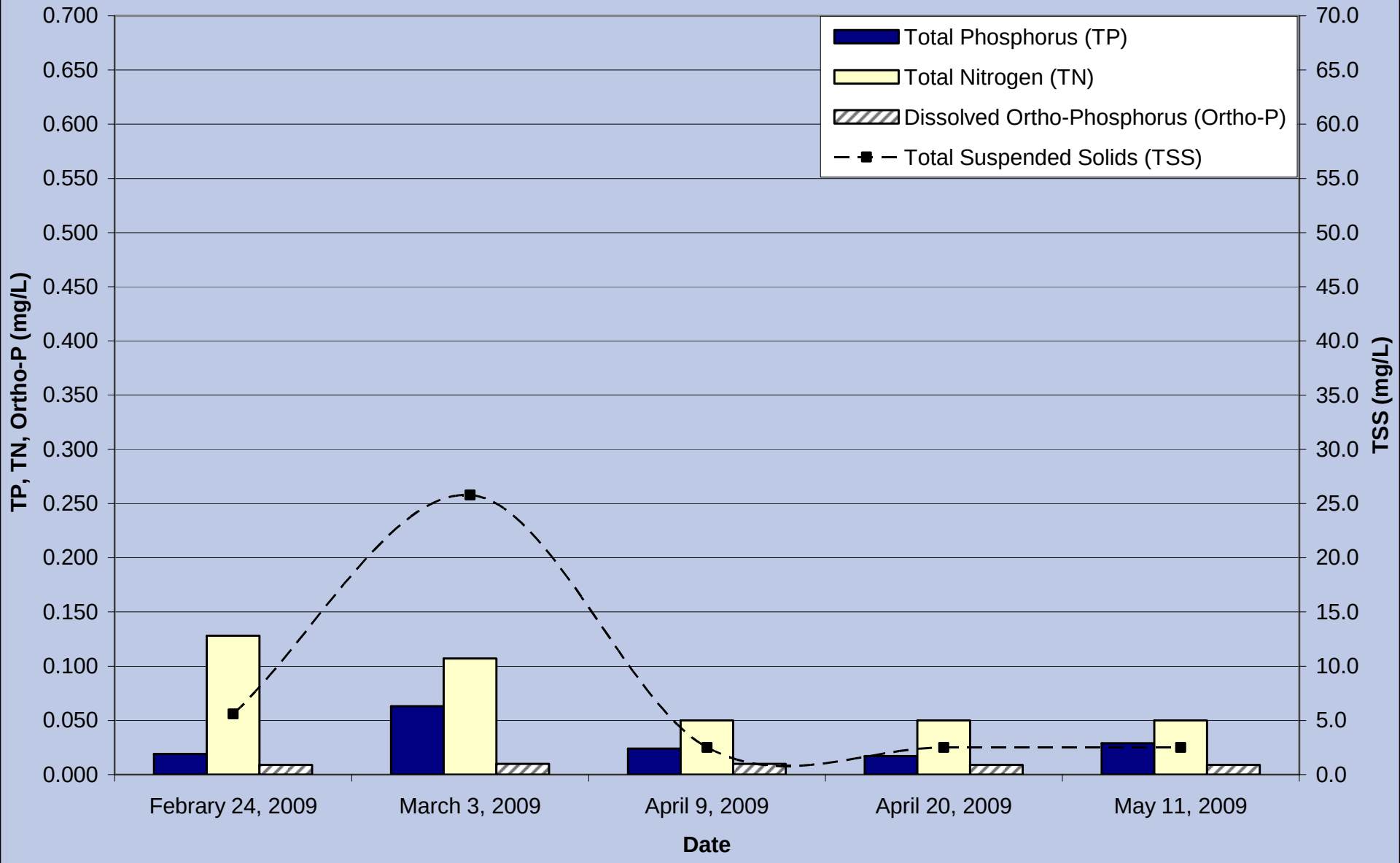
- Idaho's Water Quality Standard for primary contact recreation is 406 *E. coli* organisms per 100 ml.
- Four samples are taken no more than a week apart over thirty days to calculate a geometric mean . Idaho's Water Quality Standard for a geometric mean of 126 *E. coli* organisms per 100 ml.

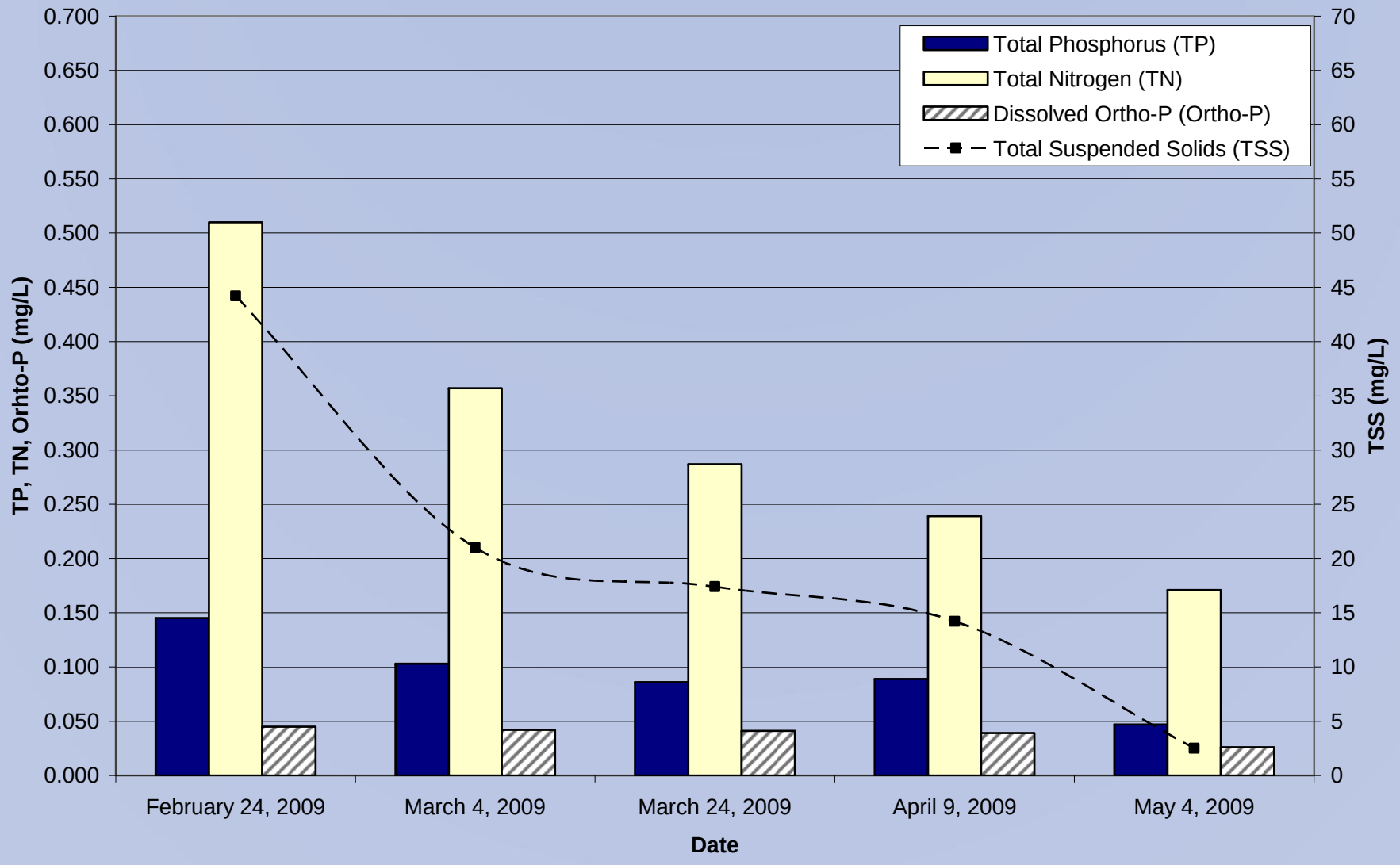
Bellgrove Creek: 2009 Monitoring Results



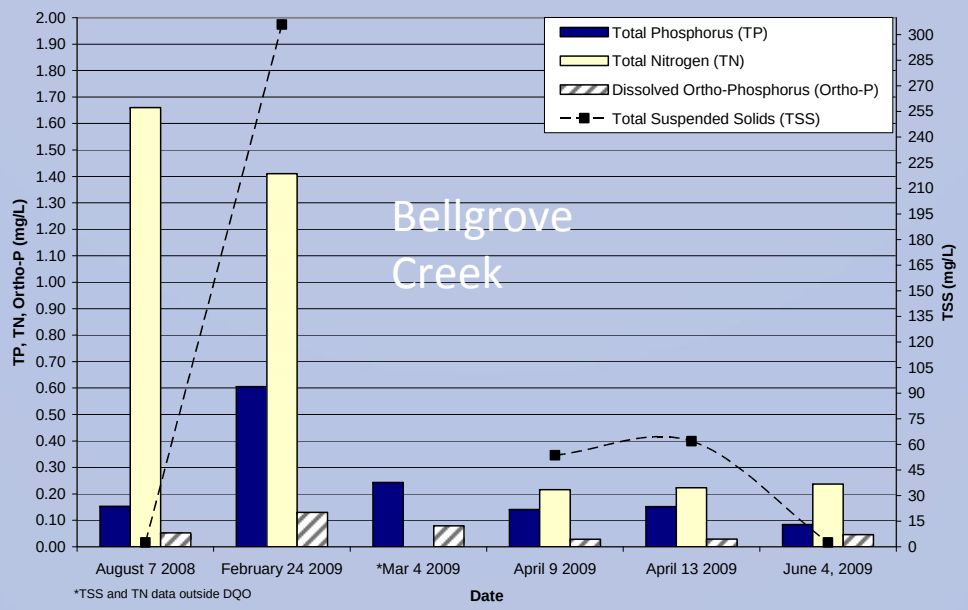
*TSS and TN data outside DQO

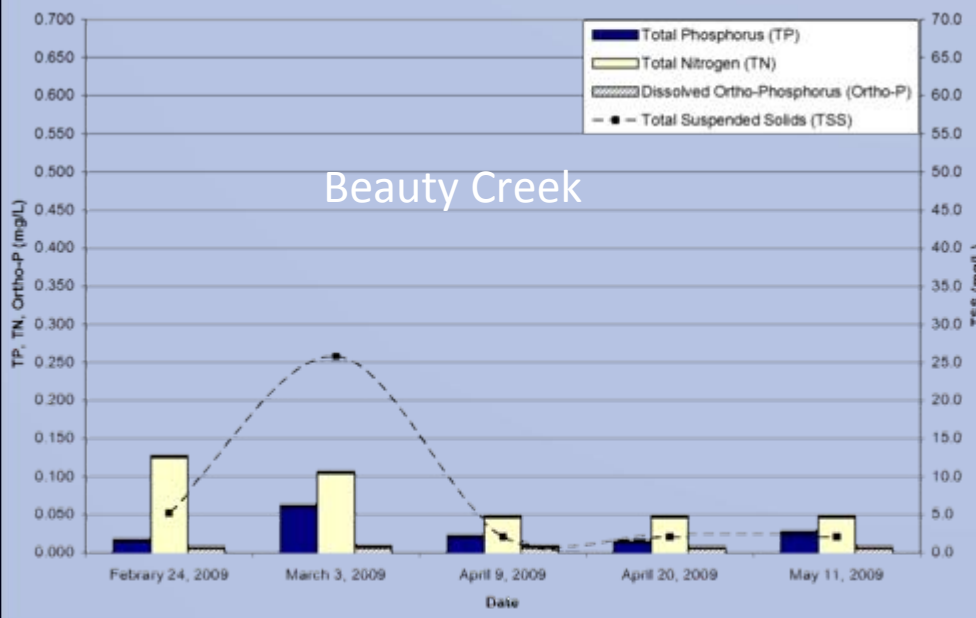
Beauty Creek: 2009 Monitoring Results

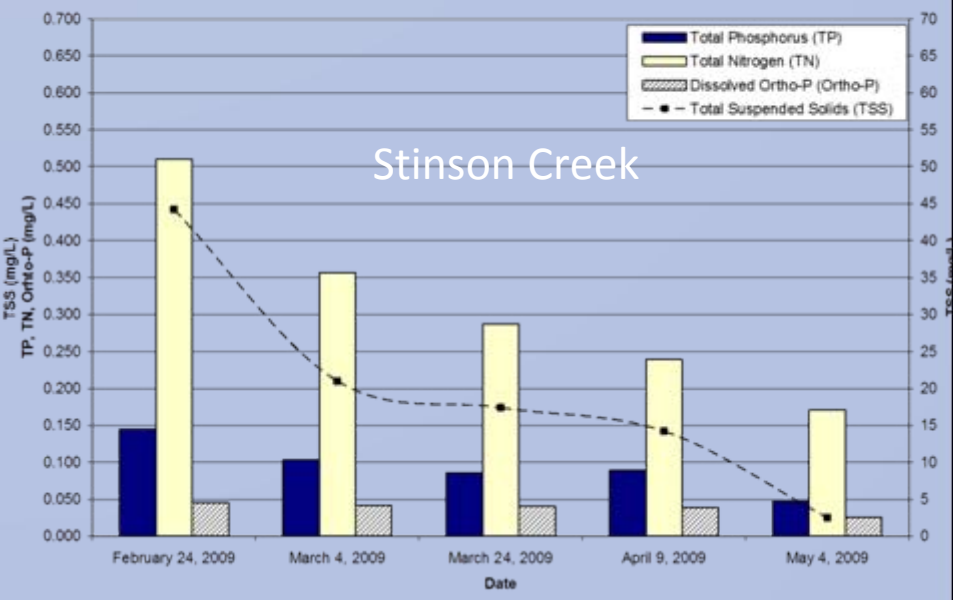



Total Phosphorus (TP)
Total Nitrogen (TN)
Dissolved Ortho-P (Ortho-P)
Total Suspended Solids (TSS)
TP, TN, Orhto-P (mg/L)
TSS (mg/L)
0.700
0.650
0.600
0.550
0.500
0.450
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
February 24, 2009
March 4, 2009
March 24, 2009
April 9, 2009
May 4, 2009
Date

2009 Monitoring Results







What Next?