

E. coli Bacteria Results Squaw Creek Watershed Snapshots

Site #	Location	2006	May 2007	2007	May 2008	2008	May 2009	2009	May 2010	Oct 2010	May 2011	Oct 2011	May 2012	Oct 2012	May 2013	Oct 2013	May 2014	Oct 2014
		CFU/100 ml	CFU/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	MPN/100 ml	CFU/100 ml
4 SC2	Squaw Creek at 390th Street	110	10	1400	230	930	(empty vial)	630	490	260	310	250	300				267	133
5 SC3	Squaw Creek - 110th St & U Ave.	250	81	1400	110	750	230	210	500	160	710	86	52				267	167
6 SC4	Glacial Creek (trib to Squaw Creek; U Ave south of 110th St)	110	20	770	70	560	790	160	170	260	860	130	62			130		167
7 SC5	Talynn's North Sample Site (V Ave north of 120 th)	140	120	420	60	520	5200	840	300	450	530	-	430		710	190	567	433
9 SC7	Beard/Mackie (Squaw Creek at E18)	20	110	1400	130	1700	1700	250	480	290	490	-	170		360	360	167	133
10 SC10	Squaw Creek at 150th St.	170	300	1100	110	650	2500	320	780	250	650	110	330		3000		200	133
11 SC8	Montgomery Creek 1	360	140	1200	240	2500	360	1100	220					stagnant	1300	1200		567
12 SC11	Montgomery Creek 2	210	160	990	160	960	440	360	580	190	1600	160	880	790	1000	340		567
13 SC12	Prairie Creek 1	180	220	1100	460	1300	570	500	310						74	75		467
14 SC13	Prairie Creek 2	280	430	2200	710	1800	5500	660	1100	450	6500	280	440	stagnant	810	20		433
16 SC14	Squaw Creek @ 170th St. Bridge	100	270	1600	380	810	5500	620	640	360	2500	-	96		1200	10	367	333
17 SC16	Squaw Creek above Gilbert Creek	170	240	1300	220	930	4600	100	1000	200	790	-	41		680			empty vial
18 SC15	Gilbert Creek above Squaw Creek	560	470	320	280	490	780	110	130	260	370	-	140		98		1967	433
22 SC19	Onion Creek at R-38 (Co. Line Rd)	60	63	740	120	530	2100	490	210	220	750	1500	330	dry	150		800	533
23 SC22	Onion Creek (Reactor Woods)	240	90	680	170	400	4400		910	50	270	<10	200	dry	200		300	567
24 SC18	Moore Park (Squaw Creek)	200	240	1100	260	430	1400	180	860	190	720	110	150		460	340	467	367
25 SC25	Clear Creek Boone (site north 25 feet)	420	30	180	20	100	80	40	50									
26 SC27	Clear Creek at Emma McCarthy Lee bridge	55	90	660	120	380	100	130	170	200	200	dry	86	dry	98		133	933
27 SC48	Clear Creek (Hyland Avenue)		160	1500	310	990	340	290	90									
28 SC26	Clear Creek Pammel Woods	960	170	960	230	720	290	<10	120	990	<10	<10	110	100000	310		200	367
30 SC23	AHS Tributary of Squaw Creek	810	30	10000	4400	1000	50	560	120	5200	30000	<10	150		500		0	0
31 SC24	Squaw Creek 13th Street	120	190	1200	170	600	2600		960	240	520	650	230	dry	500	380	300	300
32 SC28	Brookside Park (6th St.)	160	260	1200	260	530	2000	560	1000	210	1400	-	250	dry	330	710	733	333
33 SC35	College Creek at Wilder	130	150	860	350	260	190	3400	2400	4600	1400	270	31	2400	110	63	2433	133
35 SC38	Ames Middle School Site 2 (west site)	240	130	350	1900	260	510	310	520	200	280	'empty vial'	350	1700		1100	3333	167
38 SC49	College Creek ISU Arboretum		290	3300	3300	860		1500	820	720	300	85	440	dry	240	1300		contaminated
40 SC31	College Creek (near Elwood Drive)	2800	270	7700	1900	1000	990	1000	290	930	380	580	340	26000	2200		2600	1200
41 SC54	Pammel Creek above 6th Street		170		250	530	7700	120	50	'empty vial'	160	8700	85		330	4400	1133	100
42 SC55	CyRide Creek above Elwood		10	1100	120	610	3100	250	5500	110	410		300		20		567	67
45 SC33	Squaw Creek at Fourth St. bridge in Ames	310	220	1700	330	880	570	320	960	190	200	2300	150	dry	320		467	367
47 SC44	Komar Creek (tribuary to Worrell)	4200	140	1600	1600	1500	110	60	620	270	85	dry	180	dry	190		333	300
48 SC43	Worle Creek (near Meadow Glenn Rd)	300	240	2800	470	2400	200	190	710	240	190	370	620	dry	31		100	67
51 SC40	Worrell Creek (South 16th Street)	170	240	1300	240	3300	250	50	830	190	410		380	dry	110		100	100
52 SC41	South Branch Worrell Creek (below Creekside Dr)		27	1900	560	360	320	360	160	230	1300	820	1600		210		0	100
53 SC57	Near Squaw Creek Drive (stormwater drainage)		170	9800	1000	680	90	2900	20	880	63	8700	< 10		<10		0	0
54 SC39	Squaw Creek at Duff Avenue in Ames	160	240	1000	270	840	440	310	960	(empty vial)	360	660	130		410		7133	333

Meets A1-A3 Primary Contact standard of 235 cfu/100 ml
Exceeds A2 Secondary Contact standard of 2880 cfu/100 ml
Squaw Creek, main branch, designated A1

Crim

**IOWATER Bacteria Monitoring
Squaw Creek Snapshot**

Name Crim

Date 10/11/14

Time

Site #	Sample Volume (ml)	Incubation				E. Coli Bacteria	General Coliform
		Start	Stop	Total hours	Temp		
SC12							
Rep 1	1			48	95	4	46
Rep 2						5	100
Rep 3						5	60
SC13							
Rep 1						6	62
Rep 2						3	53
Rep 3						4	85
SC8							
Rep 1						6	81
Rep 2						4	100
Rep 3						7	102
SC11							
Rep 1						8	57
Rep 2						4	71
Rep 3						5	55
SC28							
Rep 1						5	39
Rep 2						3	22
Rep 3						2	30
SC14							
Rep 1						0	31
Rep 2						5	51
Rep 3						5	50
SC55							
Rep 1						1	4
Rep 2						0	4
Rep 3						1	3
SC31							
Rep 1						14	48
Rep 2						12	59
Rep 3						10	33
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							

Crim

Average E. Coli per sample	Average General Coliform per sample
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4.67 68.67

4.33 66.67

5.67 94.33

5.67 61.00

3.33 30.33

3.33 44.00

0.67 3.67

12.00 46.67

0.00 0.00

0.00 0.00

Dietz

**IOWATER Bacteria Monitoring
Squaw Creek Snapshot**

Name Dietz

Date 10/11/14

Time 48 hrs

Site #	Sample Volume (ml)	Incubation				E. Coli Bacteria	General Coliform
		Start	Stop	Total hours	Temp		
SC7							
Rep 1						0	79
Rep 2						3	66
Rep 3	1	10/11/1910	10/13/1910	48	91	1	66
SC19							
Rep 1						6	100
Rep 2						5	75
Rep 3	1			48	91	5	81
SC18							
Rep 1						5	55
Rep 2						3	84
Rep 3	1			48	91	3	70
SC22							
Rep 1						5	86
Rep 2						4	79
Rep 3	1			48	91	8	87
SC39							
Rep 1						2	60
Rep 2						5	86
Rep 3	1			48	91	3	84
SC10							
Rep 1						2	76
Rep 2						0	63
Rep 3	1			48	91	2	83
SC15							
Rep 1						7	74
Rep 2						1	69
Rep 3	1			48	91	5	73
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							

Dietz

Average E. Coli per sample	Average General Coliform per sample
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1.33 44.00

5.33 85.33

3.67 69.67

5.67 84.00

3.33 76.67

1.33 74.00

4.33 72.00

0.00 0.00

0.00 0.00

0.00 0.00

Engle

**IOWATER Bacteria Monitoring
Squaw Creek Snapshot**

Name Ed Engle

Date 10/13/14

Time 8:00 p.m.

Site #	Sample Volume (ml)	Incubation				E. Coli Bacteria	General Coliform
		Start	Stop	Total hours	Temp		
SC 23	1			48	95		
Rep 1						0	0
Rep 2						0	2
Rep 3						0	1
SC 54	1			48	95		
Rep 1						1	15
Rep 2						0	26
Rep 3						2	17
SC 26	1			48	95		
Rep 1						4	45
Rep 2						4	55
Rep 3						3	63
SC 27	1			48	95		
Rep 1						11	66
Rep 2						6	60
Rep 3						11	63
SC 24	1			48	95		
Rep 1						2	35
Rep 2						3	24
Rep 3						4	36
SC 41	1			48	95		
Rep 1						2	34
Rep 2						1	42
Rep 3							
SC 57	1			48	95		
Rep 1						0	0
Rep 2						0	0
Rep 3						0	0
SC 33	1			48	95		
Rep 1						6	27
Rep 2						1	45
Rep 3						4	36
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							

Engle

Average E. Coli per sample	Average General Coliform per sample
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0.00 1.00

1.00 14.33

3.67 54.33

9.33 63.00

3.00 31.67

1.00 25.33

0.00 0.00

3.67 36.00

0.00 0.00

0.00 0.00

Merrick

**IOWATER Bacteria Monitoring
Squaw Creek Snapshot**

Name Merrick

10/11/2014

Site #	Sample Volume (ml)	Incubation				E. Coli Bacteria	General Coliform
		Start	Stop	Total hours	Temp		
SC2							
Rep 1	1	4:30	4:30	48	98	2	43
Rep 2		4:30	4:30	48		2	100
Rep 3		4:30	4:30	48		0	31
SC3							
Rep 1		4:30	4:30	48	98	3	100
Rep 2		4:30	4:30	48		2	100
Rep 3		4:30	4:30	48		-	-
SC4							
Rep 1		4:30	4:30	48	98	3	100
Rep 2		4:30	4:30	48		2	75
Rep 3		4:30	4:30	48		-	-
SC5							
Rep 1		4:30	4:30	48	98	2	100
Rep 2		4:30	4:30	48		8	100
Rep 3		4:30	4:30	48		3	100
SC40							
Rep 1		4:30	4:30	48	98	1	100
Rep 2		4:30	4:30	48		2	100
Rep 3		4:30	4:30	48		0	100
SC43							
Rep 1		4:30	4:30	48	98	2	100
Rep 2		4:30	4:30	48		0	25
Rep 3		4:30	4:30	48		0	60
SC44							
Rep 1		4:30	4:30	48	98	2	100
Rep 2		4:30	4:30	48		4	100
Rep 3		4:30	4:30	48		3	50
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							

Merrick

Average E. Coli per sample	Average General Coliform per sample
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1.33 58.00

1.67 66.67

1.67 58.33

4.33 100.00

1.00 100.00

0.67 61.67

3.00 83.33

0.00 0.00

0.00 0.00

0.00 0.00

Schuck

**IOWATER Bacteria Monitoring
Squaw Creek Snapshot**

Name Schuck

10/11/2014

9 - 11 A.M

11-Oct

13-Oct

Site #	Sample Volume (ml)	Incubation				E. Coli Bacteria	General Coliform
		Start	Stop	Total hours	Temp		
SC 38							
Rep 1	1	1:30	1:30	48	98.6	1	100
Rep 2		1:30	1:30	48		2	83
Rep 3		1:30	1:30	48		2	100
SC 35							
Rep 1		1:30	1:30	48		1	57
Rep 2		1:30	1:30	48		2	61
Rep 3		1:30	1:30	48		1	63
SC 49							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							
SC							
Rep 1							
Rep 2							
Rep 3							

Schuck

Average E. Coli per sample	Average General Coliform per sample
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1.67 94.33

1.33 60.33

0.00 0.00

0.00 0.00

0.00 0.00

0.00 0.00

0.00 0.00

0.00 0.00

0.00 0.00

0.00 0.00