

Oconee County Storm Water Management Program

IMPAIRED WATERS MONITORING & IMPLEMENTATION PLAN:

2016 Annual Evaluation

Impaired Waters

The following waters have been identified as impaired by the latest 305(b)/303(d) List of Waters & are the subject of this plan. In each case, the pollutant of concern is fecal coliform.

- Barber Creek
- Calls Creek
- McNutt Creek
- Middle Oconee River

Monitoring

The Oconee County Utility Department performed monitoring according to the approved plan:

- Upstream & downstream samples were collected from each of the impaired waters in order to calculate two geographic means for the year.
 - Four samples were collected (one week apart) from each sampling site during the months of June & October
 - Laboratory analysis for fecal coliform was conducted & the geometric mean for each site was calculated. The results are shown in the table below:

	June – upstream	June – downstream	October – upstream	October - downstream
Barber Creek	461.46	270.87	375.90	389.32
Calls Creek	524.37	373.28	316.63	190.80
McNutt Creek	328.15	266.28	712.69	417.14
Middle Oconee River	164.66	135.25	200.40	264.78

BMP Evaluation

BMPs included from the County's SWMP:

1. Public Education & Outreach BMP #2: website
2. Public Education & Outreach BMP #3: brochure distribution in County offices
3. Public Education & Outreach BMP #4: distribution of material to school parents
4. Public Education & Outreach BMP #5: distribution of brochures by Keep Oconee Beautiful
5. Illicit Discharge Detection & Elimination BMP #1: ordinance to prohibit illicit discharges to the storm drain system
6. Illicit Discharge Detection & Elimination BMP #3: dry weather screenings

Additional BMPs:

7. Distribution of educational material at public parks
8. Inspection priority of areas upstream of impaired waters

All of the waters addressed in this plan enter into Oconee County already impaired. In most cases, the sampling data collected from the downstream collection site shows a reduction of the pollutant of concern. Since the overall trend indicates an improvement in water quality, it seems that the chosen BMPs are currently effective. However, in the future, the BMPs for public education can be targeted more specifically to address the source of impairment (fecal coliform) in order to try to further reduce the pollutant.

Tracking

The data collected by the Utility Department during sampling is attached to this evaluation report.

Fecal Coliform-Membrane Filter

Standard Methods

19th Edition Method 9222D, P.9-60

Sample Date	Collected By	Sample Location/Time	Sample Identity	Sample Dilution %	Time Placed in Bath	Analysis Date & Time	Incubation Time	Colony Count	Fecal Coliform N/100 mL	Temp of Incubator *C	Analyst Initials
6/6/2016	EC	Lab/Blank 2:00P	Blank 100 mL	100%	2:20PM	6/14/2016 2:20PM	24HRS	0		44.7	PL
6/6/2016	PL/JH	BarberUp/9:51A	SW-1Up 10 MI	100%	2:35PM	2:35PM	24HRS	36	360	44.7	PL
6/6/2016	PL/JH	BarberUp/9:51A	SW-1Up 100 m	100%	2:35PM	2:35PM	24HRS	370	370	44.7	PL
6/6/2016	PL/JH	BarberDn12:30PM	SW-1Dn 10 mL	100%	2:35PM	2:35PM	24HRS	330	330	44.7	PL
6/6/2016	PL/JH	BarberDn12:30PM	SW-1Dn 100 m	100%	2:35PM	2:35PM	24HRS	inc. N/A	INC. N/A	44.7	PL
6/6/2016	PL/JH	Calls/10:23AM	SW-2Up 10 mL	100%	2:56PM	2:42PM	23HRS 46MIN	34	340	44.7	PL
6/6/2016	PL/JH	Calls/10:23AM	SW-2Up 100 m	100%	2:56PM	2:42PM	23HRS 46MIN	330	330	44.7	PL
6/6/2016	PL/JH	Calls/11:54AM	SW-2Dn 10 mL	100%	2:56PM	2:42PM	23HRS 46MIN	29	290	44.7	PL
6/6/2016	PL/JH	Calls/11:54AM	SW-2Dn 100 m	100%	2:56PM	2:42PM	23HRS 46MIN	INC. N/A	INC. N/A	44.7	PL
6/6/2016	PL/JH	McNutt/9:26AM	SW-3Up 10 mL	100%	3:12PM	3:12PM	24HRS	43	430	44.7	PL
6/6/2016	PL/JH	McNutt/9:26AM	SW-3Up 100mL	100%	3:12PM	3:12PM	24HRS	330	520	44.7	PL
6/6/2016	PL/JH	McNutt/12:50PM	SW-3Dn 10mL	100%	3:12PM	3:12PM	24HRS	29	410	44.7	PL
6/6/2016	PL/JH	McNutt/12:50PM	SW-3Dn 100mL	100%	3:12PM	3:12PM	24HRS	INC. N/A	INC. N/A	44.7	PL
6/6/2016	PL/JH	Middle/11:43AM	SW-4Up 10 mL	100%	3:35PM	3:15PM	23HRS 40MIN	33	330	44.7	PL
6/6/2016	PL/JH	Middle/11:43AM	SW-4Up 100 m	100%	3:35PM	3:15PM	23HRS 40MIN	INC. N/A	INC. N/A	44.7	PL
6/6/2016	PL/JH	Middle/11:10AM	SW-4Dn 10 mL	100%	3:35PM	3:15PM	23HRS 40MIN	INC. N/A	INC. N/A	44.7	PL
6/6/2016	PL/JH	Middle/11:10AM	SW-4Dn 100 m	100%	3:35PM	3:15PM	23HRS 40MIN	INC. N/A	INC. N/A	44.7	PL
6/9/2016	PL/RB	Middle/10:00AM	SW-4Up 10 mL	100%	10:45am	6/10/2016	RETEST	RETEST	RETEST		
6/9/2016	PL/RB	Middle/10:00AM	SW-4Up 10 mL	100%	10:45am	11:15am	24hrs30min	8	80	44.6	P.L.
6/9/2016	PL/RB	Middle/10:35AM	SW-4Dn 10 mL	100%	10:45am	11:15am	24hrs30min	11	110	44.6	P.L.
6/9/2016	PL/RB	Middle/10:35AM	SW-4Dn 10 mL	100%	10:45am	11:15am	24hrs30min	9	90	44.6	P.L.
6/9/2016	PL/RB	Middle/10:35AM	SW-4Dn 10 mL	100%	10:45am	11:15am	24hrs30min	12	120	44.6	P.L.

* ALL FECAL CALCULATIONS ARE GEOMETRIC MEANS. DO NOT CALCULATE BLANK IN AVERAGE.

Fecal Coliform-Membrane Filter

Standard Methods

19th Edition Method 9222D, P.9-60

Sample Date	Collected By	Sample Location/Time	Sample Identity	Sample Dilution %	Time Placed in Bath	Analysis Date & Time	Incubation Time	Colony Count	Fecal Coliform N/100 ml	Temp of Incubator *C	Analyst Initials
6/13/2016	EC	Lab/Blank 1:30P	Blank 100 ml	100%	1:40PM	6/14/2016 2:00PM	24HRS 20MIN	0		44.6	PL
6/13/2016	PL/JH	BarberUp/10:00A	SW-1Up 5 ml	100%	1:40PM	2:00PM	24HRS 20MIN	28	560	44.6	PL
6/13/2016	PL/JH	BarberUp/10:00A	SW-1Up 10 ml	100%	1:40PM	2:00PM	24HRS 20MIN	52	520	44.6	PL
6/13/2016	PL/JH	BarberDn1:45AM	SW-1Dn 5 ml	100%	1:40PM	2:00PM	24HRS 20MIN	13	260	44.6	PL
6/13/2016	PL/JH	BarberDn1:45AM	SW-1Dn 10 ml	100%	1:40PM	2:00PM	24HRS 20MIN	31	310	44.6	PL
6/13/2016	PL/JH	Calls/10:15AM	SW-2Up 5 ml	100%	1:55PM	2:00PM	24HRS 5MIN	30	600	44.6	PL
6/13/2016	PL/JH	Calls/10:15AM	SW-2Up 10 ml	100%	1:55PM	2:00PM	24HRS 5MIN	54	540	44.6	PL
6/13/2016	PL/JH	Calls/11:05AM	SW-2Dn 5 ml	100%	1:55PM	2:00PM	24HRS 5MIN	31	620	44.6	PL
6/13/2016	PL/JH	Calls/11:05AM	SW-2Dn 10 ml	100%	1:55PM	2:00PM	24HRS 5MIN	51	510	44.6	PL
6/13/2016	PL/JH	McNutt/9:28AM	SW-3Up 5 ml	100%	2:10PM	2:15PM	24HRS 5MIN	27	540	44.6	PL
6/13/2016	PL/JH	McNutt/9:28AM	SW-3Up 10ml	100%	2:10PM	2:15PM	24HRS 5MIN	74	740	44.6	PL
6/13/2016	PL/JH	McNutt/11:55AM	SW-3Dn 5ml	100%	2:10PM	2:15PM	24HRS 5MIN	8	160	44.6	PL
6/13/2016	PL/JH	McNutt/11:55AM	SW-3Dn 10ml	100%	2:10PM	2:15PM	24HRS 5MIN	19	190	44.6	PL
6/13/2016	PL/JH	Middle/11:15AM	SW-4Up 5 ml	100%	2:45PM	2:30PM	23HRS 45MIN	15	300	44.5	PL
6/13/2016	PL/JH	Middle/11:15AM	SW-4Up 10 ml	100%	2:45PM	2:30PM	23HRS 45MIN	44	440	44.5	PL
6/13/2016	PL/JH	Middle/10:45AM	SW-4Dn 5 ml	100%	2:45PM	2:30PM	23HRS 45MIN	9	180	44.5	PL
6/13/2016	PL/JH	Middle/10:45AM	SW-4Dn 10 ml	100%	2:45PM	2:30PM	23HRS 45MIN	10	100	44.5	PL

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6/20/2016	EC	Lab/Blank 1:45P	Blank 100 mL	100%	1:50PM	6/21/2016 1:00PM	23HRS 10MIN	0		44.5	PL
6/20/2016	PL/JH	BarberUp/11:50A	SW-1Up 5 mL	100%	1:50PM	1:00PM	23HRS 10MIN	18	360	44.5	PL
6/20/2016	PL/JH	BarberUp/11:50A	SW-1Up 10 mL	100%	1:50PM	1:00PM	23HRS 10MIN	39	390	44.5	PL
6/20/2016	PL/JH	BarberDn10:28AM	SW-1Dn 5 mL	100%	1:50PM	1:00PM	23HRS 10MIN	7	140	44.5	PL
6/20/2016	PL/JH	BarberDn10:28AM	SW-1Dn 10 mL	100%	1:50PM	1:00PM	23HRS 10MIN	12	120	44.5	PL
6/20/2016	PL/JH	Calls/12:50PM	SW-2Up 5 mL	100%	2:10PM	2:10PM	24HRS	25	500	44.5	PL
6/20/2016	PL/JH	Calls/12:50PM	SW-2Up 10 mL	100%	2:10PM	2:10PM	24HRS	27	270	44.5	PL
6/20/2016	PL/JH	Calls/9:35AM	SW-2Dn 5 mL	100%	2:10PM	2:10PM	24HRS	6	120	44.5	PL
6/20/2016	PL/JH	Calls/9:35AM	SW-2Dn 10 mL	100%	2:10PM	2:10PM	24HRS	19	190	44.5	PL
6/20/2016	PL/JH	McNut/10:55AM	SW-3Up 5 mL	100%	2:30PM	2:30PM	24HRS	6	120	44.5	PL
6/20/2016	PL/JH	McNut/10:55AM	SW-3Up 10mL	100%	2:30PM	2:30PM	24HRS	11	110	44.5	PL
6/20/2016	PL/JH	McNut/10:20AM	SW-3Dn 5mL	100%	2:30PM	2:30PM	24HRS	14	280	44.5	PL
6/20/2016	PL/JH	McNut/10:20AM	SW-3Dn 10mL	100%	2:30PM	2:30PM	24HRS	32	320	44.5	PL
6/20/2016	PL/JH	Middle/9:45AM	SW-4Up 5 mL	100%	2:45PM	2:50PM	24HRS 5MIN	4	80	44.5	PL
6/20/2016	PL/JH	Middle/9:45AM	SW-4Up 10 mL	100%	2:45PM	2:50PM	24HRS 5MIN	9	90	44.5	PL
6/20/2016	PL/JH	Middle/9:15AM	SW-4Dn 5 mL	100%	2:45PM	2:50PM	24HRS 5MIN	9	180	44.5	PL
6/20/2016	PL/JH	Middle/9:15AM	SW-4Dn 10 mL	100%	2:45PM	2:50PM	24HRS 5MIN	4	40	44.5	PL

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Fecal Coliform-Membrane Filter

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Sample Date	Collected By	Sample Location/Time	Sample Identity	Sample Dilution %	Time Placed in Bath	Analysis Date & Time	Incubation Time	Colony Count	Fecal Coliform N/100 mL	Temp of Incubator *C	Analyst Initials
6/27/2016	JH/RB	Lab/Blank	Blank 100 mL	100%	11:25 AM	6/27/2016 11:25AM	24HRS	0		44.3	EC
6/27/2016	JH/RB	BarberUp/10:12A	SW-1Up 5 mL	100%	11:25AM	11:25AM	24HRS	32	640	44.3	EC
6/27/2016	JH/RB	BarberUp/10:12A	SW-1Up 10 mL	100%	11:25AM	11:25AM	24HRS	59	590	44.3	EC
6/27/2016	JH/RB	BarberDn/9:05A	SW-1Dn 5 mL	100%	11:25AM	11:25AM	24HRS	21	420	44.3	EC
6/27/2016	JH/RB	BarberDn/9:05A	SW-1Dn 10 mL	100%	11:25AM	11:25AM	24HRS	57	570	44.3	EC
6/27/2016	JH/RB	Calls/10:30AM	SW-2Up 5 mL	100%	11:40AM	11:40AM	24HRS	56	1120	44.5	EC
6/27/2016	JH/RB	Calls/10:30AM	SW-2Up 10 mL	100%	11:40AM	11:40AM	24HRS	104	1040	44.5	EC
6/27/2016	JH/RB	Calls/8:38AM	SW-2Dn 5 mL	100%	11:40AM	11:40AM	24HRS	35	700	44.5	EC
6/27/2016	JH/RB	Calls/8:38AM	SW-2Dn 10 mL	100%	11:40AM	11:40AM	24HRS	69	690	44.5	EC
6/27/2016	JH/RB	McNutt/9:57AM	SW-3Up 5 mL	100%	12:10 PM	12:10PM	24HRS	15	300	44.3	EC
6/27/2016	JH/RB	McNutt/9:57AM	SW-3Up 10mL	100%	12:10 PM	12:10PM	24HRS	38	380	44.3	EC
6/27/2016	JH/RB	McNutt/9:15AM	SW-3Dn 5mL	100%	12:10 PM	12:10PM	24HRS	17	340	44.3	EC
6/27/2016	JH/RB	McNutt/9:15AM	SW-3Dn 10mL	100%	12:10 PM	12:10PM	24HRS	25	250	44.3	EC
6/27/2016	JH/RB	Middle/8:43AM	SW-4Up 5 mL	100%	12:35PM	12:35PM	24HRS	17	340	44.5	EC
6/27/2016	JH/RB	Middle/8:43AM	SW-4Up 10 mL	100%	12:35PM	12:35PM	24HRS	19	190	44.5	EC
6/27/2016	JH/RB	Middle/8:25AM	SW-4Dn 5 mL	100%	12:35PM	12:35PM	24HRS	16	320	44.5	EC
6/27/2016	JH/RB	Middle/8:25AM	SW-4Dn 10 mL	100%	12:35PM	12:35PM	24HRS	25	250	44.5	EC

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Fecal Coliform-Membrane Filter

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Sample Date	Collected By	Sample Location/Time	Sample Identity	Sample Dilution %	Time Placed in Bath	Analysis Date & Time	Incubation Time	Colony Count	Fecal Coliform N/100 mL	Temp of Incubator *C	Analyst Initials
10/5/2016	E.C.	Lab/Blank	Blank 100 mL	100%	10:45am	10/6/2016	24hrs	0			E.C.
10/5/2016	P.L./R.B.	BarberUp/ 8:50am	SW-1Up 1 MI	100%	10:45am	10:45am	24hrs	22	2200	44	E.C.
10/5/2016	P.L./R.B.	BarberUp/ 8:50am	SW-1Up 5 mL	100%	10:45am	10:45am	24hrs	79	1580	44	E.C.
10/5/2016	P.L./R.B.	BarberDn 11:05am	SW-1Dn 1 mL	100%	1:35pm	1:35pm	24hrs	5	500	44.3	E.C.
10/5/2016	P.L./R.B.	BarberDn 11:05am	SW-1Dn 5 mL	100%	1:35pm	1:35pm	24hrs	42	840	44.3	E.C.
10/5/2016	P.L./R.B.	Calls/ 9:12 am	SW-2Up 1 mL	100%	10:45am	10:45am	24hrs	3	300	44	E.C.
10/5/2016	P.L./R.B.	Calls/ 9:12 am	SW-2Up 5 mL	100%	10:45am	10:45am	24hrs	29	580	44	E.C.
10/5/2016	P.L./R.B.	Calls/ 10:35 am	SW-2Dn 1 mL	100%	1:35pm	1:35pm	24hrs	1	100	44.3	E.C.
10/5/2016	P.L./R.B.	Calls/ 10:35 am	SW-2Dn 5 mL	100%	1:35pm	1:35pm	24hrs	7	140	44.3	E.C.
10/5/2016	P.L./R.B.	McNutt/ 8:32 am	SW-3Up 1 mL	100%	10:45am	10:45am	24hrs	31	3100	44	E.C.
10/5/2016	P.L./R.B.	McNutt/ 8:32 am	SW-3Up 5mL	100%	10:45am	10:45am	24hrs	180	3600	44	E.C.
10/5/2016	P.L./R.B.	McNutt/ 10:55 am	SW-3Dn 1mL	100%	1:35pm	1:35pm	24hrs	8	800	44.3	E.C.
10/5/2016	P.L./R.B.	McNutt/ 10:55 am	SW-3Dn 5mL	100%	1:35pm	1:35pm	24hrs	31	620	44.3	E.C.
10/5/2016	P.L./R.B.	Middle/ 10:41 am	SW-4Up 1 mL	100%	1:35pm	1:35pm	24hrs	2	200	44.3	E.C.
10/5/2016	P.L./R.B.	Middle/10:41 am	SW-4Up 5 mL	100%	1:35pm	1:35pm	24hrs	16	320	44.3	E.C.
10/5/2016	P.L./R.B.	Middle/ 10:15am	SW-4Dn 1 mL	100%	1:35pm	1:35pm	24hrs	3	300	44.3	E.C.
10/5/2016	P.L./R.B.	Middle/ 10:15am	SW-4Dn 5 mL	100%	1:35pm	1:35pm	24hrs	16	320	44.3	E.C.

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Fecal Coliform-Membrane Filter

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Sample Date	Collected By	Sample Location/Time	Sample Identity	Sample Dilution %	Time Placed in Bath	Analysis Date & Time	Incubation Time	Colony Count	Fecal Coliform N/100 mL	Temp of Incubator *C	Analyst Initials
10/12/2016	E.C.	Lab/Blank	Blank 100 mL	100%	9:50am	0/13/16-9:50am	24hrs	0		44.3	E.C.
10/12/2016	J.H./R.B.	BarberUp/ 8:36am	SW-1Up 1 MI	100%	9:50am	9:50am	24hrs	4	400	44.3	E.C.
10/12/2016	J.H./R.B.	BarberUp/ 8:36am	SW-1Up 5 mL	100%	9:50am	9:50am	24hrs	8	160	44.3	E.C.
10/12/2016	J.H./R.B.	BarberDn 9:47am	SW-1Dn 1 mL	100%	11:05am	11:05am	24hrs	4	400	44.3	E.C.
10/12/2016	J.H./R.B.	BarberDn 9:47am	SW-1Dn 5 mL	100%	11:05am	11:05am	24hrs	14	280	44.3	E.C.
10/12/2016	J.H./R.B.	Calls/ 8:51 am	SW-2Up 1 mL	100%	10:05am	10:05am	24hrs	2	200	44.3	E.C.
10/12/2016	J.H./R.B.	Calls/ 8:51 am	SW-2Up 5 mL	100%	10:05am	10:05am	24hrs	7	140	44.3	E.C.
10/12/2016	J.H./R.B.	Calls/ 9:04 am	SW-2Dn 1 mL	100%	10:05am	10:05am	24hrs	5	500	44.3	E.C.
10/12/2016	J.H./R.B.	Calls/ 9:04 am	SW-2Dn 5 mL	100%	10:05am	10:05am	24hrs	8	160	44.3	E.C.
10/12/2016	J.H./R.B.	McNurt/ 8:24 am	SW-3Up 1 mL	100%	9:50am	9:50am	24hrs	4	400	44.3	E.C.
10/12/2016	J.H./R.B.	McNurt/ 8:24 am	SW-3Up 5mL	100%	9:50am	9:50am	24hrs	28	560	44.3	E.C.
10/12/2016	J.H./R.B.	McNurt/ 9:39 am	SW-3Dn 1mL	100%	11:05am	11:05am	24hrs	4	400	44.3	E.C.
10/12/2016	J.H./R.B.	McNurt/ 9:39 am	SW-3Dn 5mL	100%	11:05am	11:05am	24hrs	38	760	44.3	E.C.
10/12/2016	J.H./R.B.	Middle/ 10:03 am	SW-4Up 1 mL	100%	11:15am	11:15am	24hrs	2	200	45	E.C.
10/12/2016	J.H./R.B.	Middle/10:03 am	SW-4Up 5 mL	100%	11:15am	11:15am	24hrs	7	140	45	E.C.
10/12/2016	J.H./R.B.	Middle/ 10:18am	SW-4Dn 1 mL	100%	11:15am	11:15am	24hrs	1	100	45	E.C.
10/12/2016	J.H./R.B.	Middle/ 10:18am	SW-4Dn 5 mL	100%	11:15am	11:15am	24hrs	8	160	45	E.C.

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Fecal Coliform-Membrane Filter

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Sample Date	Collected By	Sample Location/Time	Sample Identity	Sample Dilution %	Time Placed in Bath	Analysis Date & Time	Incubation Time	Colony Count	Fecal Coliform N/100 mL	Temp of Incubator *C	Analyst Initials
10/19/2016	E.C.	Lab/Blank	Blank 100 mL	100%	9:45am	0/20/16-9:45am	24hrs	0	0	45	E.C.
10/19/2016	J.H./P.L.	BarberUp/ 8:43am	SW-1Up 1 ml	100%	9:45am	9:45am	24hrs	4	400	45	E.C.
10/19/2016	J.H./P.L.	BarberUp/ 8:43am	SW-1Up 5 ml	100%	9:45am	9:45am	24hrs	16	320	45	E.C.
10/19/2016	J.H./P.L.	BarberDn 9:40am	SW-1Dn 1 ml	100%	10:55am	10:55am	24hrs	5	500	44.5	E.C.
10/19/2016	J.H./P.L.	BarberDn 9:40am	SW-1Dn 5 ml	100%	10:55am	10:55am	24hrs	33	660	44.5	E.C.
10/19/2016	J.H./P.L.	Calls/ 9:00 am	SW-2Up 1 ml	100%	10:00am	10:00am	24hrs	2	200	44.7	E.C.
10/19/2016	J.H./P.L.	Calls/ 9:00 am	SW-2Up 5 ml	100%	10:00am	10:00am	24hrs	12	240	44.7	E.C.
10/19/2016	J.H./P.L.	Calls/ 9:12 am	SW-2Dn 1 ml	100%	10:00am	10:00am	24hrs	2	200	44.7	E.C.
10/19/2016	J.H./P.L.	Calls/ 9:12 am	SW-2Dn 5 ml	100%	10:00am	10:00am	24hrs	14	280	44.7	E.C.
10/19/2016	J.H./P.L.	McNutt/ 8:55 am	SW-3Up 1 ml	100%	9:45am	9:45am	24hrs	8	800	45	E.C.
10/19/2016	J.H./P.L.	McNutt/ 8:55 am	SW-3Up 5ml	100%	9:45am	9:45am	24hrs	32	640	45	E.C.
10/19/2016	J.H./P.L.	McNutt/ 9:50 am	SW-3Dn 1ml	100%	10:55am	10:55am	24hrs	4	400	44.5	E.C.
10/19/2016	J.H./P.L.	McNutt/ 9:50am	SW-3Dn 5ml	100%	10:55am	10:55am	24hrs	10	200	44.5	E.C.
10/19/2016	J.H./P.L.	Middle/ 10:05 am	SW-4Up 1 ml	100%	11:10am	11:10am	24hrs	0	0	44.5	E.C.
10/19/2016	J.H./P.L.	Middle/10:05 am	SW-4Up 5 ml	100%	11:10am	11:10am	24hrs	6	120	44.5	E.C.
10/19/2016	J.H./P.L.	Middle/ 10:25am	SW-4Dn 1 ml	100%	11:10am	11:10am	24hrs	3	300	44.5	E.C.
10/19/2016	J.H./P.L.	Middle/ 10:25am	SW-4Dn 5 ml	100%	11:10am	11:10am	24hrs	15	300	44.5	E.C.

* ALL FECAL CALCULATIONS ARE GEOMETRIC MEANS. DO NOT CALCULATE BLANK IN AVERAGE.

Fecal Coliform-Membrane Filter

Standard Methods

19th Edition Method 9222D, P.9-60

Sample Date	Collected By	Sample Location/Time	Sample Identity	Sample Dilution %	Time Placed in Bath	Analysis Date & Time	Incubation Time	Colony Count	Fecal Coliform N/100 mL	Temp of Incubator *C	Analyst Initials
10/26/2016	E.C.	Lab/Blank	Blank 100 mL	100%	9:45am	0/20/16-9:45am	24.75hrs	0	0	44.5	E.C.
10/26/2016	J.H./P.L.	BarberUp/ 8:43am	SW-1Up 1 ml	100%	9:45am	10:30am	24.75hrs	1	100	44.5	E.C.
10/26/2016	J.H./P.L.	BarberUp/ 8:43am	SW-1Up 5 ml	100%	9:45am	10:30am	24.75hrs	7	140	44.5	E.C.
10/26/2016	J.H./P.L.	BarberDn 10:34am	SW-1Dn 1 ml	100%	11:15am	11:15am	24hrs	1	100	44.5	E.C.
10/26/2016	J.H./P.L.	BarberDn 10:34am	SW-1Dn 5 ml	100%	10:15am	10:15am	24hrs	17	340	44.5	E.C.
10/26/2016	J.H./P.L.	Calls/ 8:58 am	SW-2Up 1 ml	100%	10:00am	10:30am	24.5hrs	6	600	44.3	E.C.
10/26/2016	J.H./P.L.	Calls/ 8:58 am	SW-2Up 5 ml	100%	10:00am	10:30am	24.5hrs	36	720	44.3	E.C.
10/26/2016	J.H./P.L.	Calls/ 9:12 am	SW-2Dn 1 ml	100%	10:00am	10:30am	24.5hrs	2	200	44.3	E.C.
10/26/2016	J.H./P.L.	Calls/ 9:12 am	SW-2Dn 5 ml	100%	10:00am	10:30am	24.5hrs	7	140	44.3	E.C.
10/26/2016	J.H./P.L.	McNutt/ 8:28 am	SW-3Up 1 ml	100%	9:45am	10:30am	24.75hrs	2	200	44.5	E.C.
10/26/2016	J.H./P.L.	McNutt/ 8:28 am	SW-3Up 5ml	100%	9:45am	10:30am	24.75hrs	13	260	44.5	E.C.
10/26/2016	J.H./P.L.	McNutt/ 10:43 am	SW-3Dn 1ml	100%	11:15am	11:15am	24hrs	2	200	44.3	E.C.
10/26/2016	J.H./P.L.	McNutt/ 10:43 am	SW-3Dn 5ml	100%	11:15am	11:15am	24hrs	19	380	44.3	E.C.
10/26/2016	J.H./P.L.	Middle/ 10:05 a	SW-4Up 1 ml	100%	11:30am	11:30am	24hrs	0	0	44.3	E.C.
10/26/2016	J.H./P.L.	Middle/10:05 a	SW-4Up 5 ml	100%	11:30am	11:30am	24hrs	15	300	44.3	E.C.
10/26/2016	J.H./P.L.	Middle/ 9:55am	SW-4Dn 1 ml	100%	11:30am	11:30am	24hrs	2	200	44.3	E.C.
10/26/2016	J.H./P.L.	Middle/ 9:55am	SW-4Dn 5 ml	100%	11:30am	11:30am	24hrs	16	320	44.3	E.C.

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