

# Livingston County Department of Public Health

## Sampling Overview

John A. Wilson II

Non-Community Water Supply Coordinator

Livingston County Dept of Public Health

A28		LIVINGSTON																															
Summary table for the entire fiscal year FY2012 (Oct 2011 - Sept 2012)																																	
District	Number of Supplies*	Sanitary Surveys				Monitoring Violations						MCL Violations						Sppls. w/ Repeat Bacti MCLs***															
		Sppls. with surveys older than 5 yrs.**	% with surveys older than 5 yrs.	Sppls. to survey by Oct. 2013	% to survey by Oct. 2013	Nitrate MRs	Bacti. MRs	Lead-Copper MRs	Total MRs	Num. of Supplies with MRs	Percent Supplies with MRs	Nitrate MCLs	Bacti. MCLs	Total MCLs	Num. of Supplies w/ MCLs	Percent Supplies w/ MCLs																	
4 ALLEGAN	250	0	0%	24	10%	4	5	0	9	4	2%	0	2	2	2	0.8%	0																
5 BARRY-EATON	258	0	0%	24	9%	0	5	1	6	4	2%	0	5	5	5	1.9%	0																
6 BAY	11	0	0%	0	0%	0	0	0	0	0	0%	0	0	0	0	0.0%	0																
7 BENZIE-LEELANAU	209	0	0%	21	10%	1	8	0	9	7	3%	0	5	5	4	1.9%	1																
8 BERRIEN	154	0	0%	22	14%	1	1	0	2	1	1%	0	1	1	1	0.6%	0																
9 BRNCH-HILSDL-ST JOE	222	0	0%	25	11%	8	12	0	20	13	6%	0	4	4	3	1.4%	1																
10 CALHOUN	138	1	1%	34	25%	0	0	0	0	0	0%	0	1	1	1	0.7%	0																
11 CHIPPEWA	129	1	1%	24	19%	10	21	0	31	27	21%	0	6	6	6	4.7%	0																
12 CMDHD	618	0	0%	101	16%	19	32	0	51	36	6%	0	5	5	5	0.8%	0																
13 DELTA-MENOMINEE	94	0	0%	16	17%	7	29	2	38	15	16%	0	5	5	5	5.3%	0																
14 DHD#10	940	43	5%	217	23%	86	168	9	253	190	14%	2	14	16	15	1.6%	1																
15 DHD#2	342	20	6%	90	26%	1	3	0	4	4	1%	0	4	4	4	1.2%	0																
16 DHD#4	295	1	0%	67	23%	9	33	2	44	29	10%	0	5	5	4	1.4%	1																
17 DICKINSON-IRON	61	0	0%	15	25%	0	1	0	1	1	2%	0	1	1	1	1.6%	0																
18 GD TRAVERSE	148	0	0%	39	26%	23	23	3	49	25	17%	0	1	1	1	0.7%	0																
19 GENESEE	402	8	2%	96	24%	44	72	2	118	62	15%	0	9	9	9	2.2%	0																
20 HURON	93	0	0%	12	12%	3	2	0	5	4	4%	0	1	1	1	1.0%	0																
21 INGHAM	90	1	1%	16	18%	2	9	0	11	6	7%	0	3	3	3	3.3%	0																
22 IONIA	108	0	0%	20	19%	1	0	0	1	1	1%	1	1	2	2	1.9%	0																
23 JACKSON	227	0	0%	21	9%	6	7	0	13	12	5%	0	1	1	1	0.4%	0																
24 KALAMAZOO	173	0	0%	33	19%	1	13	0	14	13	8%	0	8	8	7	4.0%	1																
25 KENT	331	0	0%	42	13%	1	3	0	4	3	1%	0	10	10	7	2.1%	3																
26 LAPEER	267	38	14%	85	32%	0	29	1	30	22	8%	0	11	11	11	4.1%	0																
27 LENAWEE	167	0	0%	20	12%	2	5	0	7	6	4%	0	4	4	4	2.4%	0																
28 LIVINGSTON	399	0	0%	13	3%	0	3	0	3	3	1%	0	16	16	15	3.8%	1																
29 LMAS	288	0	0%	55	19%	10	15	0	25	22	8%	0	8	8	8	2.8%	0																
30 MACOMB	97	0	0%	14	14%	11	18	1	30	19	20%	0	1	1	1	1.0%	0																
31 MARQUETTE	59	0	0%	5	8%	0	0	0	0	0	0%	0	1	1	1	1.7%	0																
32 MIDLAND	39	0	0%	2	5%	0	0	0	0	0	0%	0	1	1	1	2.6%	0																
33 MID-MICHIGAN	327	19	6%	70	21%	14	22	0	36	25	8%	0	4	4	4	1.2%	0																
34 MONROE	93	0	0%	16	17%	1	3	0	4	4	4%	0	7	7	7	7.5%	0																
35 MUSKEGON	185	1	1%	26	14%	3	0	0	3	3	2%	0	0	0	0	0.0%	0																
36 NVMCHA	466	14	3%	75	16%	16	19	0	35	23	5%	0	6	6	6	1.3%	0																
37 OAKLAND	717	0	0%	119	17%	3	25	1	29	25	3%	0	45	45	42	5.9%	3																
38 OTTAWA	220	15	7%	53	24%	36	36	1	73	39	18%	0	5	5	5	2.3%	0																
39 SAGINAW	43	0	0%	5	12%	2	3	0	5	4	8%	0	0	0	0	0.0%	0																
40 SANILAC	81	10	12%	19	23%	3	19	1	23	13	16%	0	2	2	2	2.5%	0																
41 SHIAWASSEE	157	5	3%	31	20%	15	30	0	45	26	17%	0	5	5	5	3.2%	0																
42 ST. CLAIR	90	2	2%	18	20%	1	13	0	14	13	14%	0	0	0	0	0.0%	0																
43 TUSCOLA	99	1	1%	18	18%	3	3	0	6	6	6%	0	2	2	2	2.0%	0																
44 VAN BUREN-CASS	265	0	0%	54	20%	14	13	2	29	17	6%	0	6	6	6	2.3%	0																
45 WASHTENAW	224	0	0%	41	18%	3	11	2	16	9	4%	0	13	13	12	5.4%	1																

Percentage of noncom. water supplies having viols. during the FYs 1998 - 2007  
(All four quarters of FY2007 have been included.)

District	Supts. <sup>1</sup>	Percent Supplies w/ Bact or Nitrate MVR Violations										Percent Supplies w/ Bact or Nitrate MCL Violations										
		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
ALLGN	201	34%	14%	33%	33%	8%	4%	4%	3%	5%	5%	3.7%	1.5%	2.3%	2.3%	2.0%	1.5%	2.3%	3.1%	1.5%	1.9%	
BAR-EAT	276	32%	37%	51%	21%	8%	5%	14%	17%	16%	19%	7.8%	2.1%	4.9%	7.3%	4.2%	5.0%	5.6%	6.4%	4.4%	2.6%	
BAY	14	0%	0%	0%	0%	0%	0%	0%	33%	0%	0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
BAZ-LEE	193	8%	8%	4%	11%	7%	8%	5%	2%	3%	6%	4.8%	2.5%	1.5%	1.0%	0.5%	1.4%	0.5%	1.0%	0.5%	1.0%	
BERRIEN	160	34%	20%	5%	5%	8%	28%	13%	8%	8%	3%	0.0%	1.4%	2.3%	1.9%	0.2%	0.0%	0.0%	1.7%	1.2%	1.3%	
BHSJ	225	19%	44%	13%	9%	2%	2%	7%	8%	6%	12%	2.4%	0.4%	2.2%	2.6%	3.4%	0.4%	1.6%	2.9%	0.8%	1.8%	
CAHFN	142	53%	13%	40%	10%	8%	2%	1%	0%	3%	28%	1.7%	4.0%	1.8%	1.8%	4.4%	0.5%	2.7%	3.3%	0.6%	0.7%	
CHIPP	158	24%	30%	30%	13%	15%	11%	17%	16%	9%	9%	7.7%	12.1%	6.9%	6.0%	11.8%	4.9%	3.6%	2.1%	4.4%	6.3%	
CMDDO	597	16%	20%	8%	7%	3%	11%	27%	11%	8%	11%	1.2%	2.6%	2.3%	3.0%	3.2%	0.7%	1.2%	2.4%	1.2%	1.8%	
DLTWN	108	31%	29%	46%	18%	33%	25%	17%	29%	21%	11%	6.7%	7.0%	4.2%	0.8%	3.4%	6.8%	8.2%	2.8%	1.9%	6.6%	
DHTDND	1030	13%	13%	16%	16%	16%	16%	28%	27%	12%	10%	2.2%	1.8%	1.4%	0.7%	0.4%	0.2%	0.7%	1.0%	1.9%	1.4%	
DHELR	306	0%	0%	2%	0%	4%	1%	4%	2%	1%	1%	2.4%	1.4%	0.9%	2.0%	3.2%	2.4%	1.3%	3.0%	3.8%	3.3%	
DHCDA	318	15%	11%	12%	11%	21%	13%	16%	19%	16%	13%	6.2%	5.1%	5.1%	3.7%	2.6%	2.1%	1.2%	1.9%	1.6%	1.6%	
DEKRN	80	25%	27%	16%	8%	8%	3%	18%	22%	11%	12%	4.6%	0.0%	6.0%	4.8%	4.5%	0.0%	1.5%	0.0%	1.6%	0.0%	
GD TRAV	157	25%	21%	27%	11%	4%	12%	22%	19%	14%	17%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.6%	0.0%	0.0%	
GENSEE	439	32%	13%	16%	16%	16%	8%	9%	14%	18%	13%	4.6%	3.6%	6.0%	3.8%	2.1%	3.3%	2.0%	1.8%	4.2%	4.8%	
HURON	102	21%	21%	19%	14%	16%	17%	19%	9%	3%	13%	5.4%	3.7%	4.1%	0.8%	3.6%	0.5%	2.7%	0.9%	2.8%	0.0%	
INGHAM	89	69%	70%	20%	20%	38%	12%	5%	8%	17%	17%	7.1%	2.4%	3.6%	7.3%	2.4%	4.9%	7.0%	10.6%	10.0%	4.5%	
IONIA	102	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	2.9%	2.9%	2.0%
KCKSN	260	1%	2%	9%	18%	21%	14%	11%	30%	19%	11%	1.7%	1.5%	5.2%	5.9%	2.2%	4.2%	3.1%	0.8%	0.0%	0.8%	
KZOO	180	0%	0%	0%	12%	2%	0%	11%	5%	0%	0%	2.3%	3.5%	4.1%	3.9%	2.9%	3.5%	3.0%	5.5%	3.8%	1.9%	
KENT	348	3%	3%	3%	3%	2%	2%	0%	0%	2%	1%	1.8%	3.4%	2.8%	2.1%	1.1%	4.0%	1.8%	0.6%	2.0%	1.2%	
LAPEER	282	13%	16%	15%	29%	18%	20%	9%	7%	9%	9%	0.9%	4.8%	3.2%	4.6%	2.6%	2.5%	3.6%	3.0%	1.8%	2.8%	
LENEXE	161	13%	12%	3%	14%	8%	6%	8%	9%	7%	4%	5.6%	7.0%	6.2%	4.8%	3.8%	4.3%	10.6%	5.9%	5.6%	5.8%	
LIVSTON	356	25%	11%	18%	32%	19%	7%	5%	12%	6%	15%	1.4%	1.1%	3.0%	2.7%	2.0%	2.4%	4.2%	2.7%	3.2%	3.1%	
LMAS	291	16%	11%	7%	5%	10%	19%	13%	17%	12%	9%	10.6%	0.8%	8.8%	4.0%	4.4%	2.6%	1.3%	5.8%	5.3%	7.9%	
MACMB	105	11%	19%	19%	14%	18%	6%	34%	18%	7%	7%	3.5%	4.1%	6.2%	6.3%	6.5%	4.6%	5.6%	5.9%	7.5%	3.8%	
MARGTT	83	19%	27%	7%	20%	29%	7%	7%	0%	5%	4%	0.0%	3.8%	6.3%	3.0%	9.1%	7.0%	6.9%	1.8%	3.6%	7.5%	
MIDLAND	43	34%	23%	10%	16%	14%	19%	18%	2%	0%	2%	0.0%	4.0%	4.0%	6.0%	0.0%	0.0%	4.5%	4.4%	0.0%	9.3%	
MIDWCH	318	14%	12%	22%	21%	20%	13%	22%	23%	4%	5%	1.9%	1.6%	1.8%	3.6%	3.1%	2.7%	4.7%	4.4%	3.6%	4.1%	
MNRDE	115	11%	7%	11%	22%	7%	12%	8%	0%	8%	3%	8.3%	4.4%	6.3%	0.0%	0.0%	4.4%	6.3%	8.7%	10.6%	8.4%	
MSKEGN	158	16%	4%	16%	5%	3%	2%	7%	8%	6%	6%	3.7%	1.8%	0.4%	0.0%	0.0%	0.0%	0.8%	1.9%	3.5%	1.0%	
NMMCH	481	22%	30%	42%	28%	3%	1%	1%	3%	2%	3%	3.6%	0.6%	1.2%	1.9%	2.6%	1.6%	1.1%	1.9%	0.8%	2.8%	
DAKLMO	787	8%	4%	41%	50%	22%	12%	7%	13%	5%	4%	2.3%	5.3%	7.6%	6.2%	8.7%	8.0%	5.0%	6.7%	6.6%	6.2%	
DTAWA	269	20%	27%	20%	7%	4%	4%	16%	15%	14%	12%	0.9%	2.4%	0.9%	1.4%	1.6%	1.9%	2.0%	2.7%	3.2%	3.3%	
SAGNAW	56	44%	43%	21%	15%	30%	12%	8%	14%	14%	5%	1.8%	5.2%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	1.8%	
SANILAC	83	**	**	10%	11%	4%	11%	15%	13%	15%	10%	**	**	6.0%	1.2%	0.0%	0.0%	3.7%	1.2%	0.0%	0.0%	
SHWSEE	172	18%	7%	12%	9%	2%	18%	12%	18%	10%	9%	6.1%	3.0%	4.8%	1.9%	3.0%	0.0%	1.9%	1.2%	3.0%	2.3%	
STCLAIR	93	43%	33%	35%	22%	27%	9%	35%	17%	5%	3%	4.4%	4.4%	2.1%	8.7%	3.2%	2.1%	2.1%	1.9%	6.0%	2.9%	
TSCOLA	102	**	32%	19%	30%	18%	16%	10%	11%	10%	15%	**	2.2%	7.3%	5.1%	7.2%	1.5%	4.9%	3.0%	1.9%	4.9%	
VNBOS	252	7%	8%	1%	5%	8%	6%	6%	7%	5%	6%	0.6%	1.4%	5.1%	0.7%	0.4%	0.3%	2.5%	2.1%	1.7%	3.6%	
WBITTAW	227	30%	29%	45%	32%	11%	26%	9%	8%	11%	8%	10.4%	8.4%	8.0%	8.1%	5.9%	2.5%	1.9%	4.2%	12.3%	13.2%	
WAYNE	12	99%	12%	53%	38%	29%	33%	27%	0%	0%	0%	12.2%	0.0%	5.3%	5.3%	6.3%	3.6%	10.0%	7.7%	8.0%	6.3%	
WSTUP	132	31%	27%	38%	24%	21%	12%	8%	19%	16%	14%	7.3%	8.8%	4.3%	5.5%	14.2%	10.0%	5.1%	6.0%	12.8%	9.6%	
Average	10058	24%	19%	20%	16%	12%	11%	13%	13%	9%	9%	4.2%	3.3%	3.6%	3.4%	3.2%	3.6%	3.9%	3.0%	3.2%	3.4%	

<sup>1</sup> = Number of active supplies, not including agricultural labor camps. (Water track through 11/5/07)  
 \*\* = See values for Huron; \*\*\* = See values for Barry - Eaton

10% for 1/5

20%

# Sampling Procedural Overview

- MPR #2: Local health departments shall provide notification, oversight, and enforcement of all required construction, water quality monitoring and treatment for public health purposes at non-community public water supplies.
- At all costs avoid having a >20% MR violations and detailed work is needed to stay below the running average or 9%.

A49	Total																						
	A	B	C	D	E	F	H	I	J	K	L	M	O	P	Q	R	S	T	U	V	W	X	Y
9	BRNCH-HILSDL-ST JOE	222	0	0%	25	11%	8	12	0	20	13	6%	0	4	4	3	14%	1					
10	CALHOUN	138	1	1%	34	25%	0	0	0	0	0	0%	0	1	1	1	0.7%	0					
11	CHIPPEVA	129	1	1%	24	19%	10	21	0	31	27	21%	0	6	6	6	4.7%	0					
12	CMOHD	618	0	0%	101	16%	19	32	0	51	36	6%	0	5	5	5	0.8%	0					
13	DELTA-MENOMINEE	94	0	0%	16	17%	7	29	2	38	15	16%	0	5	5	5	5.3%	0					
14	DHD#10	940	43	5%	217	23%	86	158	9	253	130	14%	2	14	16	15	1.6%	1					
15	DHD#2	342	20	6%	90	26%	1	3	0	4	4	1%	0	4	4	4	1.2%	0					
16	DHD#4	295	1	0%	67	23%	9	33	2	44	29	10%	0	5	5	4	1.4%	1					
17	DICKINSON-IRON	61	0	0%	15	25%	0	1	0	1	1	2%	0	1	1	1	1.6%	0					
18	GD TRAVERSE	148	0	0%	39	26%	23	23	3	49	25	17%	0	1	1	1	0.7%	0					
19	GENESEE	402	8	2%	96	24%	44	72	2	118	62	15%	0	9	9	9	2.2%	0					
20	HURON	99	0	0%	12	12%	3	2	0	5	4	4%	0	1	1	1	1.0%	0					
21	INGHAM	90	1	1%	16	18%	2	9	0	11	6	7%	0	3	3	3	3.3%	0					
22	IONIA	108	0	0%	20	19%	1	0	0	1	1	1%	1	1	2	2	1.9%	0					
23	JACKSON	227	0	0%	21	9%	6	7	0	13	12	5%	0	1	1	1	0.4%	0					
24	KALAMAZOO	173	0	0%	33	19%	1	13	0	14	13	8%	0	8	8	7	4.0%	1					
25	KENT	331	0	0%	42	13%	1	3	0	4	3	1%	0	10	10	7	2.1%	3					
26	LAPEER	267	38	14%	85	32%	0	29	1	30	22	8%	0	11	11	11	4.1%	0					
27	LENAWEE	167	0	0%	20	12%	2	5	0	7	6	4%	0	4	4	4	2.4%	0					
28	LIVINGSTON	369	0	0%	13	3%	0	3	0	3	3	1%	0	16	16	15	3.8%	1					
29	LMAS	288	0	0%	55	19%	10	15	0	25	22	8%	0	8	8	8	2.8%	0					
30	MACOMB	97	0	0%	14	14%	11	18	1	30	19	20%	0	1	1	1	1.0%	0					
31	MARQUETTE	59	0	0%	5	8%	0	0	0	0	0	0%	0	1	1	1	1.7%	0					
32	MIDLAND	39	0	0%	2	5%	0	0	0	0	0	0%	0	1	1	1	2.6%	0					
33	MID-MICHIGAN	327	19	6%	70	21%	14	22	0	36	25	8%	0	4	4	4	1.2%	0					
34	MONROE	93	0	0%	16	17%	1	3	0	4	4	4%	0	7	7	7	7.5%	0					
35	MUSKEGON	185	1	1%	26	14%	3	0	0	3	3	2%	0	0	0	0	0.0%	0					
36	NWMCCHA	466	14	3%	75	16%	16	19	0	35	23	5%	0	6	6	6	1.3%	0					
37	OAKLAND	717	0	0%	119	17%	3	25	1	29	25	3%	0	45	45	42	5.9%	3					
38	OTTAWA	220	15	7%	53	24%	36	36	1	73	39	18%	0	5	5	5	2.3%	0					
39	SAGINAW	43	0	0%	5	12%	2	3	0	5	4	9%	0	0	0	0	0.0%	0					
40	SANILAC	81	10	12%	19	23%	3	19	1	23	13	16%	0	2	2	2	2.5%	0					
41	SHIAWASSEE	157	5	3%	31	20%	15	30	0	45	26	17%	0	5	5	5	3.2%	0					
42	ST. CLAIR	90	2	2%	18	20%	1	13	0	14	13	14%	0	0	0	0	0.0%	0					
43	TUSCOLA	99	1	1%	18	18%	3	3	0	6	6	6%	0	2	2	2	2.0%	0					
44	VAN BUREN-CASS	265	0	0%	54	20%	14	13	2	29	17	6%	0	6	6	6	2.3%	0					
45	WASHTENAW	224	0	0%	41	18%	3	11	2	16	9	4%	0	13	13	12	5.4%	1					
46	WAYNE	13	0	0%	2	15%	0	0	0	0	0	0%	0	2	2	2	15.4%	0					
47	WESTERN U.P.	127	0	0%	31	24%	3	22	0	25	21	17%	0	6	6	6	4.7%	0					
48	<b>Total</b>	<b>9722</b>	<b>180</b>	<b>2%</b>	<b>1731</b>	<b>18%</b>	<b>367</b>	<b>726</b>	<b>28</b>	<b>1121</b>	<b>697</b>	<b>7%</b>	<b>3</b>	<b>237</b>	<b>240</b>	<b>227</b>	<b>2.3%</b>	<b>13</b>					

50 \* Number of active supplies. (WT tables modified through 10/28/12)

51 \*\*The number of systems not surveyed in 5 years was calculated using the most recent quarter as a reference date.

52 \*\*\* Repeat Bacti MCLs are where a supply had more than one MCL in a one-year snapshot in time, in this case Oct '11 thru Sept '12.

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# Sampling Procedural Overview

The screenshot displays the WaterTrack web application interface. The browser window title is "WaterTrack Application - Microsoft Internet Explorer provided by Livingston County LT." and the URL is "http://www.deq.state.mi.us/watertrack/index.asp". The page header includes the Michigan Department of Environmental Quality logo and the "WaterTrack" logo. A left-hand navigation menu lists various options: Facility, Sanitary Survey, Monitoring Setup, Monitoring, Monit. Violations, MCL Violations, Operation Reports, Water Quality, Violations, Reporting, and PDA Data Transfer. The main content area is titled "Monitoring Violations" and contains a search form. The search form includes the following fields and options:

- LHD or District: NONE
- County: Livingston
- Analyte Group: Bacteriological
- System Type: (dropdown)
- Staff Assigned: (dropdown)
- Monit Freq: ALL
- Due Date: ALL
- Quarter: Monthly
- Due Date Year: NONE
- Sort By: Semi-Annual (selected), Annual, 3-Year, 6-Year, 9-Year
- Report Selection: Run Reminder Notices (selected), Run Violation Report, View Unreported Historical Violations

At the bottom of the search form, there are buttons for "WaterChem Search", "Violations Report", "Find", "Clear", and "Help". A red asterisk indicates a required field.

- At the beginning of each calendar quarter, semi-annual or annual obligation we run the reminder notice report found in WT in an attempt to keep track of our facilities obligations

# Sampling Procedural Overview

Monitoring Violations - Results - Microsoft Internet Explorer provided by Livingston Coun...

http://www.deq.state.mi.us/watertrack/Monitoring/MonitorVioResults.asp?LHD=NONE&County=47&A

Search Results

Number of Matching Records: 18

Print Reports Print Labels Generate Violations Export Labels Help Close

WSSN	Source ID	Supply Name	# of Samples		Frequency	Occ. Date
			Req.	Sub.		
2001047	001	CHILSON COMMONS	1	0	Quarterly	6/30/2013
2009947	003	DELPHI OR BWI	1	0	Quarterly	6/30/2013
2012247	003	SHEPHERD OF THE LAKE (DAYCARE)	1	0	Quarterly	6/30/2013
2012447	001	BRIGHTON - HILTON ELEMENTARY SCHOOL	1	0	Quarterly	6/30/2013
2016647	001	HARTLAND SCHOOLS - VILLAGE ELEM CENT KITCH	1	0	Quarterly	6/30/2013
2032947	002	COR-MET INC.	1	0	Quarterly	6/30/2013
2033547	001	UNITED BROTHERS FOWLerville	1	0	Quarterly	6/30/2013
2046347	001	CORNERSTONE PRESBYTERIAN CHURCH	1	0	Quarterly	6/30/2013
2051047	001	BRIGHTON - SCRANTON MIDDLE SCHOOL	1	0	Quarterly	6/30/2013
2056647	001	NIKON METROLOGY, INC.	2	0	Quarterly	6/30/2013
2057547	002	20TH CENTURY BUILDING COMPANY	1	0	Quarterly	6/30/2013
2057647	001	CHARLICK & SPRINGSTEAD DENTAL	1	0	Quarterly	6/30/2013

Done Internet | Protected Mode: Off 100%

- Review each sampling obligation and take note as to who we might need to remind (facility, owner and/or the operator) and confirm why they are sampling (new facility or re-opening of an existing facility that previously closed or perhaps a ongoing MCL).

# Sampling Procedural Overview

The screenshot displays the WaterTrack Application web interface. The browser title is "WaterTrack Application - Microsoft Internet Explorer provided by Livingston County, LT." The address bar shows the URL "http://www.deq.state.mi.us/watetrack/index.asp". The page header includes the Michigan Department of Environmental Quality logo and navigation links for "Michigan gov Home", "WaterTrack Home", "Contact WaterTrack", and "DEQ Home".

The main content area is titled "Monitoring Frequency" and features a "WaterTrack" logo. It contains a form with the following fields:

- WSSN: 2009917 (with a "Find" button)
- Name: DELPHI OR BVI
- Source Number: 003 (with a "New Frequency" button)
- Monitoring Frequency: Quarterly (dropdown menu)
- Analyte Group: Arsenic (dropdown menu)
- # of Samples Required: 1 (input field)
- Start Date: April 2006 (input field)

Below the form are two radio buttons: "Current Frequency" (selected) and "Previous Frequency".

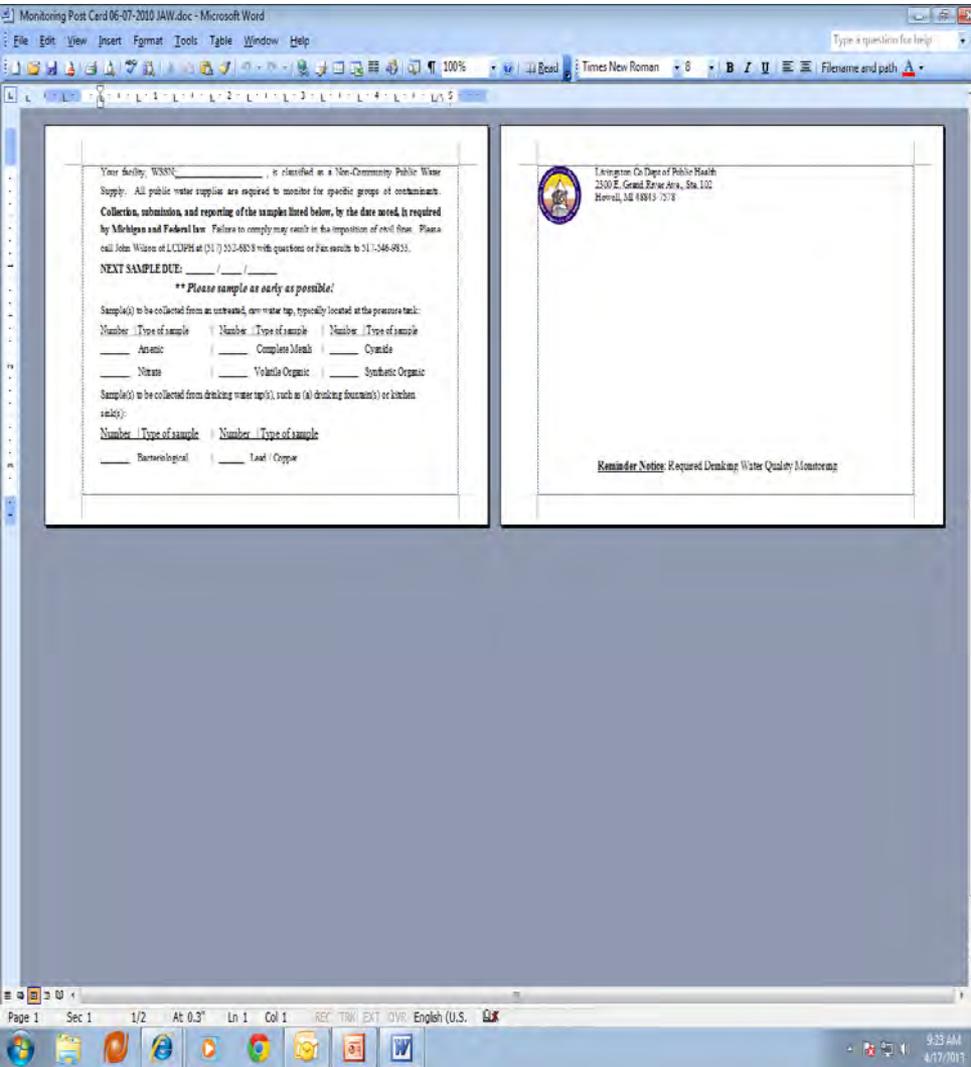
A table lists monitoring requirements for various analyte groups:

Select	Analyte Groups	Frequency	Samples Req.	Start Date
<input checked="" type="checkbox"/>	Arsenic	Quarterly	1	4/1/2006
<input type="checkbox"/>	Bacteriological	Annual	1	1/1/2012
<input type="checkbox"/>	Cyanide	3 - Year	1	1/1/2005
<input type="checkbox"/>	Lead/Copper	3 - Year	5	1/1/2006
<input type="checkbox"/>	Metals	3 - Year	1	1/1/2005
<input type="checkbox"/>	Nitrate	Annual	1	1/1/2005
<input type="checkbox"/>	SOC	6 - Year	1	1/1/2005
<input type="checkbox"/>	VOC	6 - Year	1	1/1/2005

At the bottom of the form, there are buttons for "Save", "Clear", "Delete", and "Help". A red asterisk indicates a required field.

- If a facility has met their sampling obligations then their sampling frequency is modified in WT and they are sent written correspondence – A copy is attached to the file.
- Otherwise, each facility is tracked as to their sampling obligations

# Sampling Procedural Overview



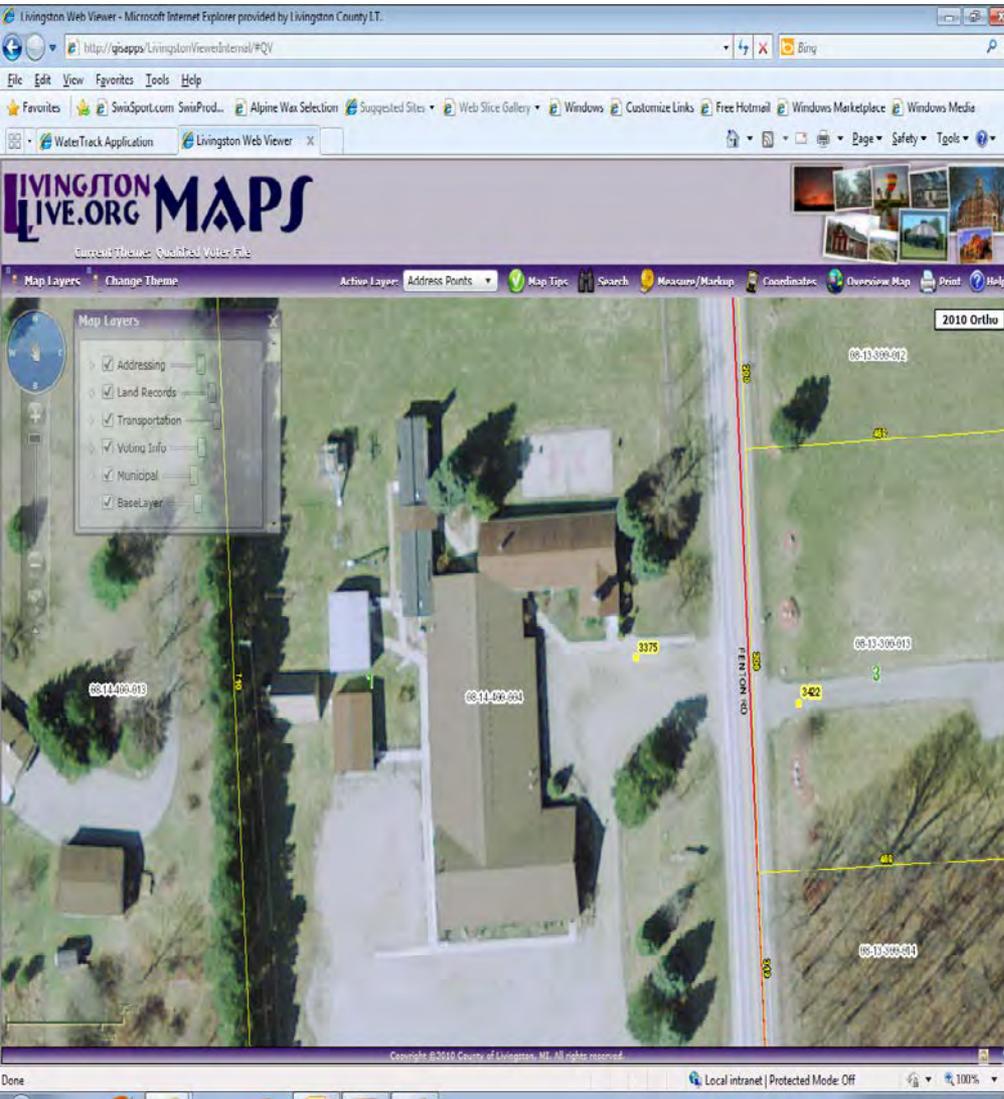
- About 5 weeks before the end of the calendar quarter, semi-annual or annual sampling frequency each facility that has not provide a copy of their water sample results are sent a reminder post card which may go to either the operator, owner and/or occupant or all.

# Sampling Procedural Overview



- If we still have not received a copy of their results then
- 5 days before the end of the calendar quarter each facility that has not provide a copy of their required water sample result is provided with a courteous reminder call. And, if we don't talk to a responsible person then we ask them to return our call and confirm when the water system will be sampled.

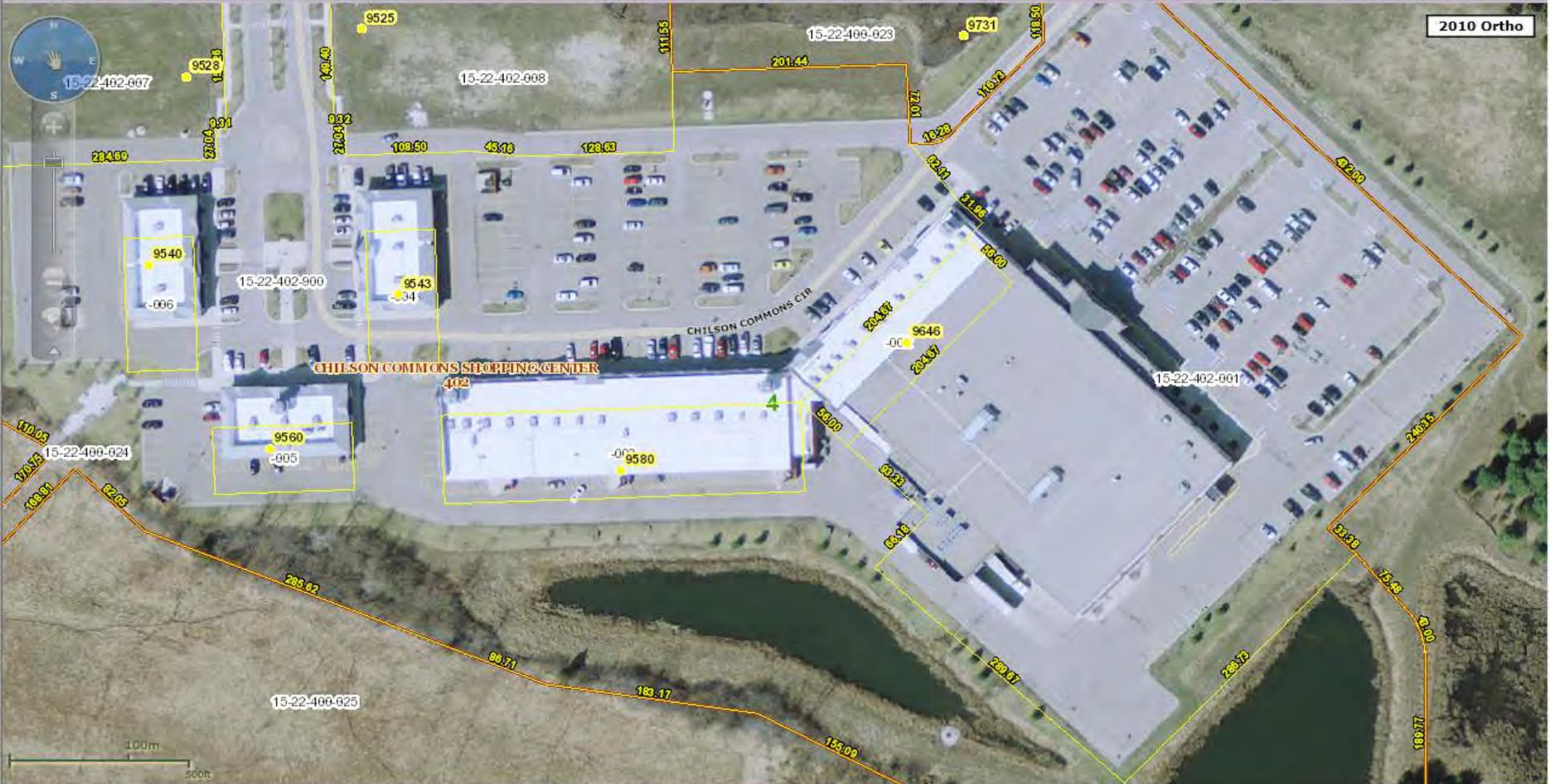
# Sampling Procedural Overview



- Here we have one of our un-cooperative facilities

# LIVINGSTON LIVE.ORG MAPS

Current Themes: Qualified Voter File



# Seasonal Obligations

- Our Seasonal facilities are tracked the same way as our quarterly or Semi-Annual obligations. We use WT and print off a copy of our facilities. We then send written guidance prior to March 1st of each year.

419201316628[1].pdf - Adobe Reader

File Edit View Window Help

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Tools Sign Comment

**WaterTrack** SEASONAL SYSTEMS

Search Criteria :  
 LHD : - County : Livingston  
 System Type : - Status : ACTIVE LHD Staff Assigned : -  
 License Type : - Primary Use : -  
 Sort By : WSSN

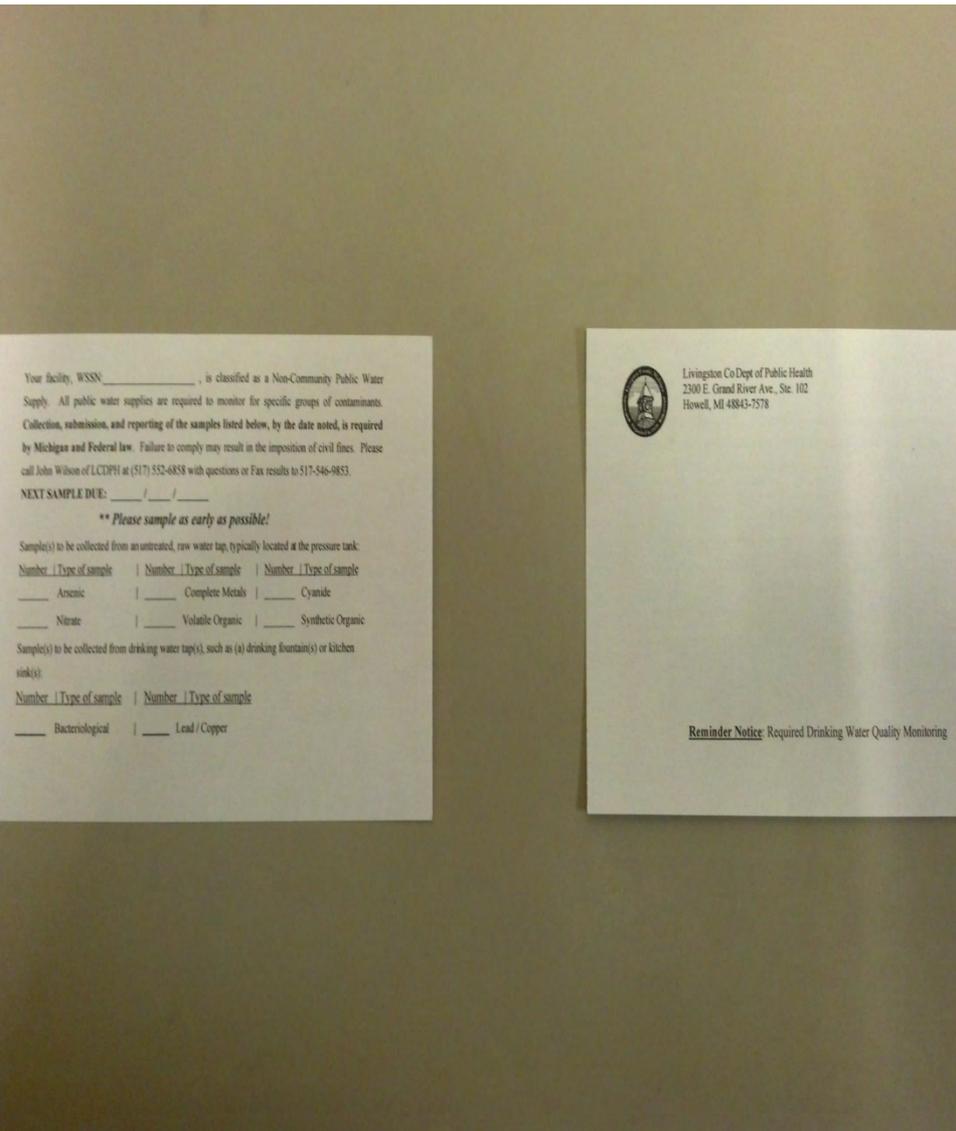
Number of Matching Records : 37 Date: 4/19/2013

WSSN	System Name	Status	System Type	Operation Season Begin Date	Operation Season End Date
2005247	TAYLORS BEACH CAMPGROUND - OFFICE & LAUNDRY	ACTIVE	TRANSIENT	APRIL 1	NOVEMBER 1
2018847	HELL CREEK RANCH - CAMPGROUND	ACTIVE	TRANSIENT	APRIL 1	DECEMBER 21
2025047	RUSH LAKE HILLS GOLF CLUB	ACTIVE	TRANSIENT	MARCH 1	NOVEMBER 16
2028447	CAMP INNISFREE-MERRY MDW. SHW.	ACTIVE	TRANSIENT	APRIL 1	DECEMBER 23
2029347	CAMP INNISFREE-TIMBER TRAIL	ACTIVE	TRANSIENT	MARCH 1	DECEMBER 15
2030347	CAMP LINDEN -POOL HOUSE	ACTIVE	TRANSIENT	APRIL 1	SEPTEMBER 30
2030547	CAMP LINDEN -TALL TIMBERS	ACTIVE	TRANSIENT	MARCH 18	SEPTEMBER 30
2030747	CAMP LINDEN - DEERFIELD HP	ACTIVE	TRANSIENT	MARCH 12	SEPTEMBER 30
2030847	CAMP LINDEN - HIDDEN SPRINGS)	ACTIVE	TRANSIENT	MARCH 18	SEPTEMBER 30
2033247	BUURMA NORTH	ACTIVE	TRANSIENT	MARCH 26	SEPTEMBER 30
2039147	MDNR - ISLAND LAKE REC TRAILHEAD	ACTIVE	TRANSIENT	APRIL 1	NOVEMBER 30
2039247	MDNR - ISLAND LAKE REC AREA - RIVER BEND	ACTIVE	TRANSIENT	MARCH 1	NOVEMBER 1
2039547	MDNR - ISLAND LAKE REC AREA - PLACEWAY	ACTIVE	TRANSIENT	APRIL 1	OCTOBER 31
2039647	MDNR - ISLAND LAKE REC AREA - ORGANIZATION	ACTIVE	TRANSIENT	APRIL 1	OCTOBER 31
2039847	MDNR - ISLAND LAKE REC AREA - DODGE SITE	ACTIVE	TRANSIENT	MARCH 1	OCTOBER 30
2039947	MDNR - ISLAND LAKE REC AREA - KENT LAKE UNIT	ACTIVE	TRANSIENT	APRIL 1	NOVEMBER 1
2045847	MDNR - ISLAND LAKE REC AREA - WHITE PINE CABI	ACTIVE	TRANSIENT	APRIL 1	OCTOBER 31
2050247	HIDEAWAY CAMPGROUND	ACTIVE	TRANSIENT	MARCH 1	NOVEMBER 1
2052047	TAYLORS BEACH CAMPGROUND - BEACH HOUSE	ACTIVE	TRANSIENT	APRIL 1	NOVEMBER 1
2052347	CHURCH OF GOD - TYRONE VALLEY (DORM)	ACTIVE	TRANSIENT	APRIL 1	OCTOBER 1
2052447	CHURCH OF GOD - TYRONE VALLEY (POOL + CABINS)	ACTIVE	TRANSIENT	MAY 1	OCTOBER 1
2052947	MDNR BRIGHTON REC HORSEMAN STG	ACTIVE	TRANSIENT	JANUARY 7	DECEMBER 16
2053047	MDNR BRIGHTON REC(CHILSON DAY USE)	ACTIVE	TRANSIENT	APRIL 1	OCTOBER 31
2053247	MDNR BRIGHTON REC - BISHOP LK OG	ACTIVE	TRANSIENT	MARCH 1	NOVEMBER 1
2053847	MDNR - ISLAND LAKE REC AREA - SPRING MILL PON	ACTIVE	TRANSIENT	MARCH 1	NOVEMBER 1
2054747	PINCKNEY SCHOOLS - READER FIELD CONCESSION	ACTIVE	TRANSIENT	MARCH 18	NOVEMBER 1
2055147	HARTLAND SCHOOLS - HS CONCESSION STAND	ACTIVE	TRANSIENT	MARCH 1	NOVEMBER 1
2059647	CAMP INNISFREE-HICKORY RIDGE SHOWER HOUSE	ACTIVE	TRANSIENT	APRIL 1	OCTOBER 30
2060247	CAMP TALAH	ACTIVE	TRANSIENT	APRIL 1	SEPTEMBER 30
2065147	PINCKNEY SCHOOL - NEW HIGH SCHOOL CONCESSIONS	ACTIVE	TRANSIENT	MARCH 20	SEPTEMBER 30
2073047	HAMBURG TOWNSHIP-WEST CONCESSION ST	ACTIVE	TRANSIENT	MARCH 1	OCTOBER 30
2077047	OAK POINTE (HALF WAY HOUSE)	ACTIVE	TRANSIENT	MARCH 26	DECEMBER 29
2078947	OAK POINT / (HOLE 10 HALFWAY)	ACTIVE	TRANSIENT	MARCH 26	DECEMBER 28
2089247	MDNR BRIGHTON REC- BISHOP LAKE BEACH	ACTIVE	TRANSIENT	MARCH 1	DECEMBER 8
2089447	CAMP LINDEN - DEERFIELD SHOWER HOUSE	ACTIVE	TRANSIENT	APRIL 1	SEPTEMBER 30
2089547	CAMP LINDEN - COTTONWOOD SHOWER HOUSE	ACTIVE	TRANSIENT	APRIL 1	OCTOBER 1

Page 1 of 2

# Seasonal Obligations – Initial Sampling

- About 5 weeks before the end of June or the end of the semi-annual sampling frequency we review each facility sampling obligation and those facilities that have not provided a copy of their water sampling results are sent a reminder post card which may go to either the operator, owner and/or occupant or maybe all.



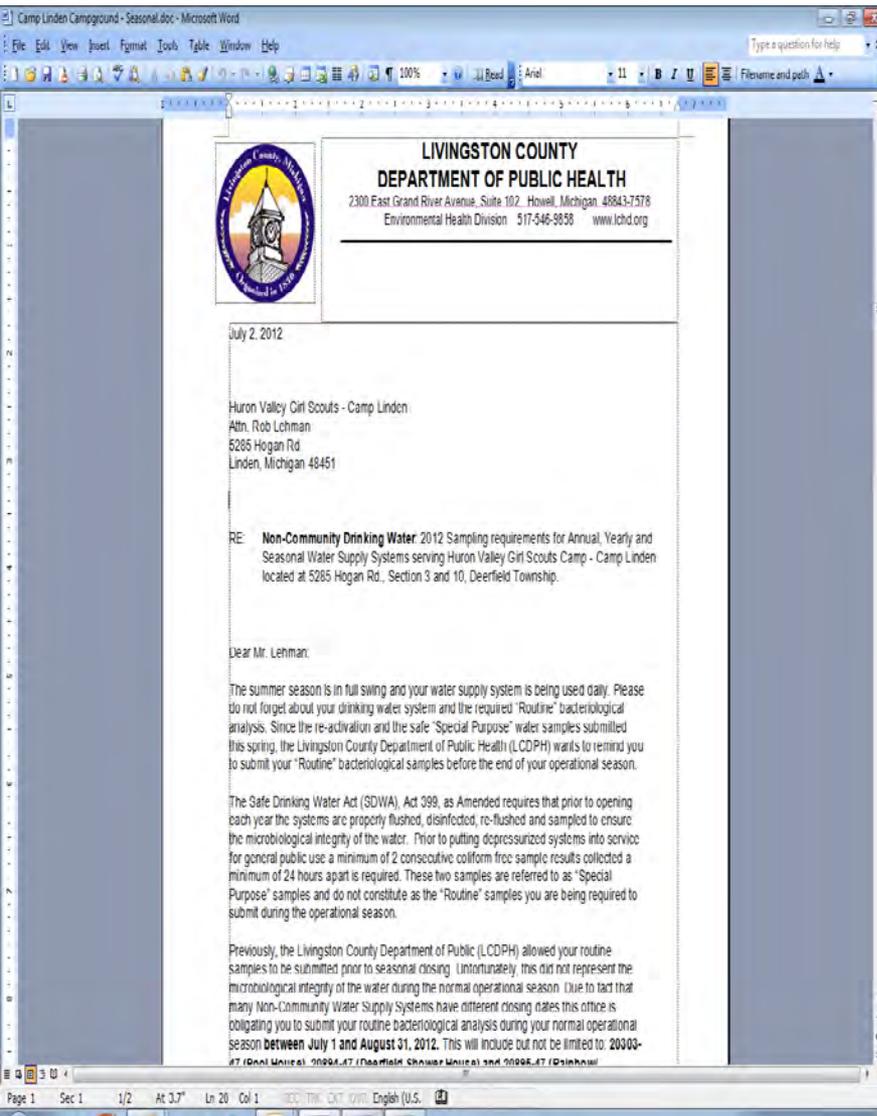
# Seasonal Obligations – Initial Sampling



- If we still have not received a copy of their results then
- 5 days before the end of the calendar quarter each facility that has not provide a copy of their required water sample result is provided with a courteous reminder call. And, if we don't talk to the responsible person then we ask them to return our call and confirm when the results will be sampled.

# Seasonal Obligations – Routine Sampling

- Routine Sampling for our seasonal facilities follows a similar routine except that we know that the routine time of occupancy is July and August not just before the close..



# Seasonal Obligations – Routine Sampling

- About a weeks before the end of August facilities are provided with a courteous reminder call.