

Drinking Water Lead & Copper Report & Certificate



1. System Name: Detroit 2. WSSN: 1800
 1a. County: Wayne
 3. Population: 713,000 4. Monitoring Period: From: 6/1/2011 To: 9/30/2011
 5. Minimum # of Samples Required: 50 6. # of Samples Taken: 54
 7. Name of Certified Laboratory: DWSD – Water Quality Lab

8. SAMPLE CRITERIA:

Yes	No	
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☐	☒	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☐	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the water system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

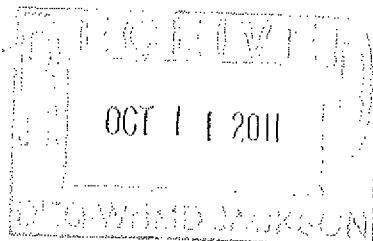
For more information see Instructions paragraph 10, subparagraph "Sample Category".

Comments: Site Code numbers L353-L363 L365-L366 L368-L371 are new sites many of the sample sites used in previous monitoring periods were unavailable for sampling. Several attempts were made to reach previous participants but many homes were vacant, torn down or previous participants were unwilling to participate.

9. CERTIFICATION:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e., one liter first draw samples following at least six hours of stagnation and that where necessary, proper instructions were given for homeowner collection).

Signature <u>Mary Lynn Semegen</u>	Phone: <u>313 926-8102</u>
Title: <u>Water Quality Division Manager II</u>	Date: <u>10/6/2011</u>



10. TAP SAMPLING DATA: (Use additional sheets as needed)

System Name/County

Detroit / Wayne

WSSN

1800

RESULTS:

Sample Location	Site Code	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumb-ing ²	Lead (ppb)	Copper (ppb)	Lab #
15452 Auburn	L011	06/11/2011	6	C	Comb.	< 2.0	23.1	L1800-011
314 W. Crescent	L026	06/16/2011	2	C	C	< 2.0	86.5	L1800-026
3956 W. Lafayette	L044	06/24/2011	1	L	Comb.	< 2.0	20.2	L1800-044
19968 Five Points	L112	06/13/2011	2	C	C	< 2.0	22.8	L1800-112
11829 Nashville	L113	06/10/2011	1	L	G/C	< 2.0	16.5	L1800-113
8268 Sorrento	L116	06/14/2011	1	L	Comb.	< 2.0	22.8	L1800-116
7264 Daphin	L157	06/14/2011	2	C	C	< 2.0	65.5	L1800-157
16728 Rosemont	L158	06/13/2011	1	L	Comb.	< 2.0	10.9	L1800-158
22443 Glendale	L161	06/09/2011	1	L	G/C	< 2.0	< 5.0	L1800-161
19490 Stratford Rd	L163	06/09/2011	1	L	G/C	< 2.0	65.0	L1800-163
19246 Greydale	L169	06/16/2011	1	L	G	< 2.0	6.4	L1800-169
8863 Farmbrook	L174	06/23/2011	1	L	C	< 2.0	65.0	L1800-174
7715 Chalfonte	L192	06/13/2011	1	L	Comb.	< 2.0	26.5	L1800-192
17606 Muirland	L202	06/15/2011	1	L	Comb.	2.3	13.0	L1800-202
3448 Kensington	L204	07/06/2011	1	L	Comb.	< 2.0	21.2	L1800-204
22051 Karl	L272	06/13/2011	2	C	Comb.	< 2.0	48.7	L1800-272
18605 Fairfield	L289	06/11/2011	2	C	Comb.	3.6	62.0	L1800-289
4243 Kensington	L297	06/21/2011	6	C	Comb.	< 2.0	15.4	L1800-297
15366 Glastonbury	L301	06/15/2011	1	L	Comb.	< 2.0	24.7	L1800-301
18690 Gainsborough	L305	07/22/2011	1	L	G	< 2.0	12.0	L1800-305

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 10, subparagraph "Sample Category".

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic

TO BE DETERMINED BY MDEQ

	90 th %ile	Ave	Max	Min	# > AL
Pb	3.4	0.70	8.8	0	0
Cu	65.4	28	180	0	0

10. TAP SAMPLING DATA: (Use additional sheets as needed)

System Name/County

Detroit / Wayne

WSSN

1800

RESULTS:

Sample Location	Site Code	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumb-ing ²	Lead (ppb)	Copper (ppb)	Lab #
19326 Pelkey	L317	06/15/2011	1	L	G	< 2.0	13.3	L1800-317
4908 33rd St	L319	07/13/2011	1	L	G	8.8	21.7	L1800-319
4808 Maxwell	L328	06/17/2011	1	L	Comb.	4.8	5.4	L1800-328
11600 Duchess	L330	07/13/2011	1	L	Comb.	< 2.0	< 5.0	L1800-330
219 Trowbridge	L331	06/16/2011	1	L	Comb.	< 2.0	6.8	L1800-331
5116 Lakepointe	L333	06/15/2011	1	L	Comb.	2.3	30.4	L1800-333
6350 Begole	L335	07/25/2011	1	L	Comb.	<2.0	<15.0	L1800-335
18420 Robson	L336	07/27/2011	2	C	C	<2.0	97.6	L1800-336
2418 Longfellow Dr	L337	06/22/2011	1	L	Comb.	< 2.0	14.2	L1800-337
18491 Cherrylawn	L339	06/13/2011	1	L	Comb.	< 2.0	97.0	L1800-339
12715 Manor	L343	06/20/2011	1	L	Comb.	< 2.0	30.0	L1800-343
12016 Kennebec	L344	06/15/2011	1	L	Comb.	< 2.0	< 5.0	L1800-344
11804 Kennebec	L345	06/22/2011	1	L	G/C	< 2.0	59.5	L1800-345
11734 Kennebec	L346	06/22/2011	1	L	Comb.	< 2.0	22.6	L1800-346
11675 Beaconsfield	L347	07/13/2011	1	L	C/G	< 2.0	5.9	L1800-347
2677 Leslie	L348	06/11/2011	1	L	Comb.	3.4	< 5.0	L1800-348
14942 Collingham	L351	06/12/2011	1	L	Comb.	< 2.0	6.3	L1800-351
22052 Karl	L353	06/28/2011	1	L	L	<2.0	<15.0	L1800-353
14344 Coyle	L354	06/26/2011	6	C	Comb.	< 2.0	19.3	L1800-354
17770 Pierson	L355	08/10/2011	6	C	Comb.	4.8	26.5	L1800-355

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 10, subparagraph "Sample Category".

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic

TO BE DETERMINED BY MDEQ

	90 th %ile	Ave	Max	Min	# > AL
Pb					
Cu					

10. TAP SAMPLING DATA: (Use additional sheets as needed)

System Name/County

Detroit / Wayne

WSSN

1800

RESULTS:

Sample Location	Site Code	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
4239 Cadieux	L356	08/19/2011	1	L	Comb.	< 2.0	118.5	L1800-356
8835 W. Parkway	L357	08/22/2011	6	L	Comb.	< 2.0	<15.0	L1800-357
3929 Woodhall	L358	08/25/2011	1	I	Comb.	<2.0	48.4	L1800-358
2184 Burns	L359	08/27/2011	1	L	Comb.	<2.0	17.0	L1800-359
16810 Rosemont	L360	08/30/2011	1	L	Comb.	<2.0	<15.0	L1800-360
3896 Clippert	L361	09/02/2011	1	L	Comb.	4.3	<15.0	L1800-361
8596 Sussex	L362	09/09/2011	1	L	G	<2.0	<15.0	L1800-362
10710 Whitehill	L363	09/09/2011	1	L	Comb.	<2.0	<15.0	L1800-363
111 Atkinson	L365	09/10/2011	1	L	Comb.	3.4	9.3	L1800-365
381 E. Grand Blvd.	L366	09/14/2011	2	C	C	<2.0	180.0	L1800-366
18851 Puritan	L368	09/16/2011	1	L	G	<2.0	<5.0	L1800-368
22531 Fargo	L369	09/18/2011	6	C	C	<2.0	7.0	L1800-369
19307 Fleming	L370	09/17/2011	1	L	P/G	<2.0	<5.0	L1800-370
18532 Greeley	L371	09/22/2011	6	C	C	<2.0	21.0	L1800-371

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 10, subparagraph "Sample Category".

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic

TO BE DETERMINED BY MDEQ

	90 th %ile	Ave	Max	Min	# > AL
Pb					
Cu					

12. CONSUMER NOTICE OF LEAD RESULT CERTIFICATION: Each Community Water Supply (CWS) must deliver a consumer notice of lead result to occupants of each location sampled within 30 days of knowing the sample result under 40 CFR §141.85 of the Lead and Copper Rule Short Term Regulatory Revisions and Clarifications. A template of the notice is available on the next page.

Not later than 3 months following the end of the monitoring period, each CWS must mail a sample copy of the consumer notice of lead result to the DEQ along with a certification that the notice has been distributed under 40 CFR §141.91(f)(3). This sheet (page 3) may be used to meet the certification requirement. Submit this certification sheet along with a sample copy of a notice sent to consumers to the appropriate DEQ district office. For district office addresses, visit www.michigan.gov/deq and click on Contacts.

I certify that this public water supply has provided the consumer notice of lead result to persons served at each of the taps that was tested, either by mail or by another method approved by the DEQ, within 30 days of knowing the result. Attached is a sample of the notice I sent to consumers. It includes:

- The result of lead tap water monitoring for the tap that was tested.
- An explanation of the health effects of lead.
- Steps consumers can take to reduce exposure to lead in drinking water.
- Contact information for the public water supply.
- The maximum contaminant level goal and the action level for lead and the definitions for these two terms.

Water Supply Name:

City of Detroit, Water and Sewerage Department

County:

Wayne

WSSN:

1800

Signature:

Mary Lynn Semegen

Printed Name:

Mary Lynn Semegen

Title:

Water Quality Division, Manager II

Phone:

313 926-8102

Date:

10-6-2011



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

October 14, 2011

Ms. Mary Lynn Semegen
10100 East Jefferson
Detroit, Michigan 48214

Dear Ms. Semegen:

SUBJECT: City of Detroit – WSSN: 01800
Lead and Copper Monitoring of Drinking Water Taps

We received your report for the monitoring period June 1, 2011, through September 30, 2011.

Action Levels	Results this monitoring period		Next monitoring period	
	90 th Percentile	# of Samples Above Action Level	# of Samples Required	Take Samples Within These Dates
Lead – 15 ppb	3.4 ppb	0	50	June 1 and September 30, 2014
Copper – 1300- ppb	65 ppb	0		Submit results to this office by October 10, 2014

Ninety percent of the sites you tested are within action levels under the administrative rules promulgated under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended. These results must be reported on your 2011 Consumer Confidence Report (CCR) due to our office, your customers and the local health department by July 1, 2012. Also include the following statement in the CCR, regardless of the lead and copper levels:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. [NAME OF UTILITY] is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at <http://water.epa.gov/drink/info/lead>.

Samples due during the next period continue your triennial monitoring. Please make every attempt to select the same sites used in the previous monitoring period, giving Tier 1 sites first priority. If original sites are unavailable, select replacement sites based on the Tier 1, 2, and 3 criteria. We strongly encourage you to sample early in the monitoring period.

Ms. Mary Lynn Semegen

Page 2

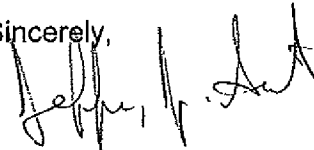
October 14, 2011

Bottles will NOT be mailed automatically. To order bottles, call the DEQ Laboratory at 517-335-8184 or download the form EQP 2301 *Requisition for Water Sample Units* from <http://michigan.gov/deq>. Click on Key Environmental Topics, Laboratory Services, Drinking Water, Obtaining The Necessary Sampling Units, and test list.

Please contact the Detroit Water and Sewerage Department (DWSD) for sample bottles, reporting forms, and the schedule for accepting samples for analysis. Thank you for your cooperation.

If you have any questions, please contact me at 517-780-7840; Department of Environmental Quality, 301 East Louis Glick Highway, Jackson, Michigan 49201-1556; or by email at antilj@michigan.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Antil", written over a horizontal line.

Jeff Antil
Drinking Water Analyst
Jackson District Office
Resource Management Division

ja:red

1800
Pb/Cu

Drinking Water Lead & Copper Report & Certificate



1. System Name: Detroit 2. WSSN: 1800
 1a. County: Wayne
 3. Population: _____ 4. Monitoring Period: From: 06/1/2014 To: 09/30/2014
 5. Minimum # of Samples Required: 50 6. # of Samples Taken: 57
 7. Name of Certified Laboratory: DWSD - Water Quality Laboratory

8. SAMPLE CRITERIA:

Yes	No		
☐	☒	a. Are the same sampling points used as in the previous monitoring period?	
☐	☒	b. Are all samples from Tier 1 sites?	
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?	For more information see Instructions paragraph 10, subparagraph "Sample Category".
☐	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the water system?	
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?	

Comments:

DWSD added 25 new sites (site codes M372 through M396; see data sheets for addresses).
 DWSD took 7 samples in excess of the requirement for this sampling period.

9. CERTIFICATION:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e., one liter first draw samples following at least six hours of stagnation and that where necessary, proper instructions were given for homeowner collection).

Name: <u>Patrick Williford</u>	Phone: (313) 926-8127
Signature:	
Title: Principal Analytical Chemist	Date: 10/06/2014

90th percentile emailed to supply 11-12-14 (see attached) -B

B

10. TAP SAMPLING DATA: (Use additional sheets as needed)

System Name/County

Detroit / Wayne

WSSN

1800

RESULTS:

Sample Location	Site Code	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
314 W. Crescent Lane	M 026	06/21/2014	2	C	C	< 2.0	43.0	1800-026
3956 W. Lafayette	M 044	07/05/2014	1	L	C/G/P	< 2.0	12.5	1800-044
19968 Five Points	M 112	06/10/2014	2	C	C	< 2.0	26.6	1800-112
8268 Sorrento	M 116	06/11/2014	1	L	C/G/P	< 2.0	16.9	1800-116
7264 Dolphin	M 157	06/11/2014	2	C	C	< 2.0	74.0	1800-157
19490 Stratford Rd.	M 163	08/25/2014	1	L	G/C/P	< 2.0	8.8	1800-163
19246 Greydale	M 169	06/20/2014	1	L	C/G/P	< 2.0	< 5.0	1800-169
8863 Farmbrook	M 174	08/15/2014	1	L	C	< 2.0	24.2	1800-174
22051 Karl	M 272	06/29/2014	1	L	C/G/P	2.7	11.8	1800-272
18605 Fairfield St.	M 289	07/15/2014	2	C	C/G/P	2.4	60.2	1800-289
19326 Pelkey	M 317	07/14/2014	1	L	C/G/P	< 2.0	5.4	1800-317
4908 33rd St.	M 319	08/25/2014	1	L	G	4.2	52.0	1800-319
5116 Lakepointe	M 333	08/27/2014	1	L	G/C/P	2.0	< 5.0	1800-333
6350 Begole	M 335	06/19/2014	1	L	C	< 2.0	7.1	1800-335
18420 Robson	M 336	07/17/2014	2	G	C	< 2.0	17.1	1800-336
18491 Cherrylawn	M 339	06/12/2014	1	L	C/G/P	< 2.0	59.0	1800-339
12016 Kennebec	M 344	07/09/2014	1	L	C/G/P	< 2.0	< 5.0	1800-344
11804 Kennebec	M 345	06/10/2014	1	L	C/G/P	< 2.0	14.6	1800-345
11734 Kennebec	M 346	08/19/2014	1	L	C/G/P	< 2.0	19.1	1800-346
11675 Beaconsfield	M 347	06/21/2014	1	L	C/G	< 2.0	6.1	1800-347
14942 Collingham	M 351	06/11/2014	1	L	C	< 2.0	6.1	1800-351
22052 Karl St.	M 353	08/15/2014	1	L	L	< 2.0	< 5.0	1800-353
14344 Coyle	M 354	07/09/2014	6	C	C/G	< 2.0	25.1	1800-354
17770 Pierson	M 355	06/11/2014	1	L	C/G/P	< 2.0	27.8	1800-355
4239 Cadieux	M 356	06/18/2014	1	L	C/G/P	< 2.0	92.0	1800-356

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site.

For more information see *Instructions* paragraph 10, subparagraph "Sample Category".

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic

TO BE DETERMINED BY MDEQ

	90th %ile	Ave	Max	Min	# > AL
Pb	2.3	0.45	5.4	0	0
Cu	75.1	33.1	232	0	0

collected

6-9-14

11-23-14

10. TAP SAMPLING DATA: (Use additional sheets as needed)

System Name/County

Detroit / Wayne

WSSN

1800

RESULTS:

Sample Location	Site Code	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
8835 W. Parkway	M 357	06/09/2014	6	C	C	5.4	18.8	1800-357
3929 Woodhall	M 358	06/16/2014	6	C	C/G/P	< 2.0	77.8	1800-358
2184 Burns	M 359	06/11/2014	1	L	C/G/P	3.4	5.7	1800-359
8596 Sussex	M 362	08/18/2014	1	L	G	< 2.0	5.3	1800-362
381 E. Grand Blvd.	M 366	06/12/2014	2	C	C	< 2.0	191.8	1800-366
19307 Fleming	M 370	06/09/2014	1	L	C/G/P	< 2.0	< 5.0	1800-370
18532 Greeley	M 371	08/15/2014	6	C	C	< 2.0	54.6	1800-371
4380 Marseilles	M 372	07/03/2014	1	L	C/G/P	< 2.0	6.7	1800-372
6363 Asbury Park	M 373	07/02/2014	6	C	C/G/P	< 2.0	< 5.0	1800-373
8630 Knodell	M 374	07/25/2014	1	L	C/G	3.2	9.5	1800-374
2545 Longfellow	M 375	07/27/2014	3	C	L/C/G/P	2.2	202.0	1800-375
12800 Evanston	M 376	07/28/2014	6	C	C	< 2.0	< 5.0	1800-376
18513 Mackay	M 377	07/24/2014	6	C	G	< 2.0	30.6	1800-377
20501 Glastonbury Road	M 378	07/30/2014	6	C	C/G	< 2.0	5.9	1800-378
5029 Hillcrest	M 379	08/18/2014	6	C	P	< 2.0	12.8	1800-379
7750 Wykes	M 380	08/19/2014	1	L	G	< 2.0	< 5.0	1800-380
17544 Warwick	M 381	08/21/2014	6	C	C/G/P	< 2.0	35.7	1800-381
8282 Sussex	M 382	08/26/2014	1	G	C/G/P	< 2.0	17.1	1800-382
8211 Morrow Circle	M 383	08/22/2014	1	L	L	< 2.0	< 5.0	1800-383
19303Margareta	M 384	08/23/2014	1	L	G	< 2.0	< 5.0	1800-384
654 Marston	M 385	08/26/2014	1	L	G	< 2.0	232.0	1800-385
8626 Hubbell St.	M 386	08/21/2014	1	L	C	< 2.0	202.0	1800-386
18701 Oakfield	M 387	08/28/2014	6	C	G	< 2.0	10.1	1800-387
18684 Marlowe	M 388	08/28/2014	1	L	G/C	< 2.0	7.0	1800-388
3808 Vicksburg	M 389	08/29/2014	1	L	P	< 2.0	10.2	1800-389

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 10, subparagraph "Sample Category".

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic

TO BE DETERMINED BY MDEQ

	90th %ile	Ave	Max	Min	# > AL
Pb					
Cu					

	90th %ile	Ave	Max	Min	# > AL
Pb					
Cu					

Consumer Notice of Lead Result in Drinking Water

Water Supply Name:	DETROIT WATER AND SEWERAGE DEPARTMENT		
County:	WAYNE	WSSN:	1800
Sample Location:	314 W. Crescent Lane	Date Sampled:	06/21/2014

Thank you for participating in the lead and copper monitoring of drinking water. The levels of lead and copper found at your location are in the table below.

Key to Table	Contaminant	AL	MCLG	Your Result
Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. ppb: parts per billion or micrograms per liter.	Lead (ppb)	15	0	< 2.0
	Copper (ppb)	1300	1300	43.0

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

To reduce exposure to lead in drinking water:

- *Run your water to flush out lead.* Run the water until it becomes cold.
- *Use cold water for cooking and preparing baby formula.* Do not cook with or drink water from the hot water tap; lead dissolves more easily in hot water.
- *Do not boil water to remove lead.* Boiling water will not reduce lead levels.
- *Look for alternative sources or treatment of water.* If your lead result is above 15 ppb, you may want to consider purchasing bottled water or a water filter. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for information on performance standards for water filters.
- *Identify if your plumbing fixtures contain lead.* New faucets, fittings, and valves, may contain up to 8 percent lead including those advertised or labeled as "lead-free" and may contribute lead to drinking water. Consumers should be aware of this when choosing fixtures and take appropriate precautions.

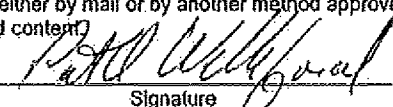
Although the primary sources of lead exposure for most children are deteriorating lead-based paint, lead-contaminated dust, and lead-contaminated soil, the U.S. EPA estimates that 10 to 20 percent of human exposure to lead may come from drinking water.

For more information, contact us at: 313-926-8127 or 313-926-8102

For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

Certification:

I certify that this public water supply has provided the consumer notice of lead result to persons served at each of the taps that was tested, either by mail or by another method approved by the DEQ, within 30 days of knowing the result. The Notice includes required content.

 Signature	Principal Analytical Chemist Title	WSSN: 1800 07/24/2014 Date Sent to Consumer
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Reminder to water supplier: Complete this certification on only one (1) example copy of a notice sent to a consumer and submit it to the DEQ.



CITY OF DETROIT
WATER AND SEWERAGE DEPARTMENT
WATER QUALITY DIVISION

10100 EAST JEFFERSON AVENUE
DETROIT, MICHIGAN 48214
PHONE 313•926•8127 / 926•8102 TTY:311
FAX 313•842•6418 / 926•8104
WWW.DETROITMI.GOV

Consumer Notice of Lead Result in Drinking Water

Detroit Water and Sewerage Department County: Wayne, WSSN #1800

07/24/2014

Ms. Maria Adams-Lawton M 026
314 W. Crescent Lane
Detroit, MI 48207

Dear Ms. Maria Adams-Lawton:

Thank you for participating in the City of Detroit Water and Sewerage Department (DWSD) lead and copper drinking water monitoring program. The Detroit Water and Sewerage Department is pleased to provide you with your lead and copper sample results collected on 06/21/2014 sampled at 314 W. Crescent Lane, Detroit, MI 48207. The levels of lead and copper found at your location are in the table below.

Key to Table	Contaminant	AL	MCLG	Your Result
AL = Action Level: is the concentration of a contaminant which, if exceeded, triggers treatment of other requirements that a water system must follow.	Lead (ppb)	15	0	< 2.0
MCLG = Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety. ppb = parts per billion or micrograms per liter. ppm = parts per million or milligrams per liter.	Copper (ppb)	1300	1300	43.0

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

To reduce your exposure to lead in drinking water:

- Run your water to flush out lead. Run the water until it becomes cold.
- Use cold Water for cooking and preparing baby formula. Do not cook with or drink water from the hot water tap; lead dissolves more easily in hot water.
- Do not boil water to remove lead. Boiling water will not reduce lead levels.
- Look for alternative sources or treatment of water. If your lead result is above 15 ppb, you may want to consider purchasing bottled water or a water filter. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for information on performance standards for water filters.
- Identify if your plumbing fixtures contain lead. New faucets, fittings, and valves, may contain up to 8 percent lead including those advertised or labeled as "lead free" and may contribute lead to drinking water. Consumers should be aware of this when choosing fixtures and take appropriate precautions.



Although the primary sources of lead exposure for most children are deteriorating lead-based paint, lead-contaminated dust, and lead-contaminated soil, the U.S. EPA estimates that 10-20 percent of human exposure may come from drinking water.

For more information contact the Detroit Water and Sewerage Department at: 313 926-8102 or 313 926-8127.

For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's Web site at www.epa.gov/lead, call the National lead information center at 800-424-LEAD, or contact your health care provider.

Sincerely,

Patrick Williford
Principal Analytical Chemist
Detroit Water and Sewerage Department

Bergstrom, Carolyn (DEQ)

From: Patrick Williford <williford@dwsd.org>
Sent: Monday, October 06, 2014 7:41 PM
To: DEQ-DWMA-SEMI
Subject: LCR Report for Detroit
Attachments: 2014 Detroit LCR Report.pdf; 2014-10-06 LCR Results for Detroit.xlsx

I have attached a pdf copy to the MOR and to this email, but have also included the Detroit spreadsheet in this email.

Sincerely,

Patrick Williford
Principal Analytical Chemist
williford@DWSD.org
Office: 313.926.8127

Detroit Water & Sewerage Dept.
Water Quality Division
Water Works Park Administration Bldg., RM 207
10100 E. Jefferson Ave.
Detroit, MI 48214-3139

"In God we trust."

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-This electronic communication is covered by the Electronic Communications Privacy Act of 1986, Codified at 18 U.S.C. §§ 1367, 2510-2521, 2701-2710, 3121-3126. Also, see: <http://www.ftc.gov/privacy/elbact/elbsub1.htm>
- Gramm-Leach-Bliley Act 15 USC, Subchapter I, Sec. 6801-6809

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Detroit (1800)

	Pb	Cu
0	0	0
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	5.3
14	0	5.4
15	0	5.7
16	0	5.9
17	0	6.1
18	0	6.1
19	0	6.7
20	0	7
21	0	7.1
22	0	7.9
23	0	8.8
24	0	9.5
25	0	10.1
26	0	10.2
27	0	11.8
28	0	12.5
29	0	12.8
30	0	13.8
31	0	14.6
32	0	16.9
33	0	17.1
34	0	17.1
35	0	18
36	0	18.8
37	0	19.1
38	0	24.2
39	0	25.1
40	0	26.6
41	0	27.8
42	0	30.6
43	0	31.9
44	0	35.7
45	0	43
46	0	52
47	0	54.6
48	0	59
49	0	60.2
50	2	70.3
51	2.2	74
52	2.4	77.8
53	2.7	92
54	3.2	191.8
55	3.4	202
56	4.2	202
57	5.4	232
90th	2.3	75.1
average	0.45	33.1
max	5.40	232.00

Bergstrom, Carolyn (DEQ)

From: Bergstrom, Carolyn (DEQ)
Sent: Wednesday, November 12, 2014 9:47 AM
To: 'Mary Lynn Semegen'
Cc: 'williford@dwsd.org'
Subject: 2014 Lead and Copper Monitoring Results

We received your 2014 lead and copper monitoring results, reporting form, and certification of lead consumer notice. The results of your monitoring are as follows. Please retain for your records.

WSSN: 1800 Supply Name: City of Detroit

Action Levels	90 th Percentile	# of Samples Above Action Level
Lead 15 parts per billion (ppb)	2.3 ppb	0
Copper 1300 parts per billion (ppb)	75.1 ppb	0

These results must be reported on your 2014 Consumer Confidence Report (CCR) due to our office, your customers and the local health department by July 1, 2015. Also include the following statement in the CCR, regardless of the lead and copper levels:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. [NAME OF UTILITY] is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at <http://water.epa.gov/drink/info/lead>.

Please contact me if you have any questions.

Thank you,

Carolyn Bergstrom
 Environmental Quality Analyst
 Office of Drinking Water and Municipal Assistance
 Michigan Department of Environmental Quality
 27700 Donald Court
 Warren, MI 48092
 Phone: 586-753-3755
 Fax: 586-753-3831

	A	B	C
2			
3	Contact		
4	Christina Donaldson		
5	Amy LaChance		1 Detroit city, Michigan 2 Grand Rapids city, Michigan
6	Christina Donaldson		3 Warren city, Michigan
7	Christina Donaldson		4 Sterling Heights city, Michigan
8	Steve Busch		5 Ann Arbor city, Michigan
9	Steve Busch		6 Lansing city, Michigan
10	Steve Busch		7 Flint city, Michigan
11			
12	* Detroit, Warren, and Sterling Heights are customers of the Great Lakes Water Authority (GLWA). GLWA employs corrosion control treatment and is considered optimized.		
13	Detroit, Warren, and Sterling Heights receive water from GLWA that is considered optimized. Detroit, Warren, and Sterling Heights do not employ any additional treatment themselves.		

[illegible]

Drinking Water Lead & Copper Report & Certificate



1. System Name: Sterling Heights 2. WSSN: 6385
 1a. County: Macomb
 3. Population: 137,000 4. Monitoring Period: From: 6/1/2011 To: 9/30/2011
 5. Minimum # of Samples Required: 24 6. # of Samples Taken: 24
 7. Name of Certified Laboratory: DWSD - Water Quality Lab

8. SAMPLE CRITERIA:

Yes	No	
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☒	☐	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☐	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the water system?
☐	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

For more information see *Instructions* paragraph 10, subparagraph "Sample Category".

Comments:

9. CERTIFICATION:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e., one liter first draw samples following at least six hours of stagnation and that where necessary, proper instructions were given for homeowner collection).

Signature: <u>[Signature]</u>	Phone: <u>586 446 2455</u>
Title: <u>Water Dept. Supervisor</u>	Date: <u>6-17-11</u>

10. TAP SAMPLING DATA: (Use additional sheets as needed)

System Name/County

Sterling Heights / Macomb

WSSN

6385

RESULTS:

Sample Location	Site Code	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
14568 Suffield	L 1	06/13/2011	2	C	C	< 2.0	7.1	6385-001
14380 Brookings	L 2	06/11/2011	2	C	C	< 2.0	10.5	6385-002
4455 Gardner	L 3	06/15/2011	2	C	C	< 2.0	113.0	6385-003
3289 Alderdale	L 4	06/15/2011	2	C	C	< 2.0	17.1	6385-004
3070 Barkway	L 5	06/13/2011	2	C	C	< 2.0	11.3	6385-005
12910 Beresford	L 6	06/14/2011	2	C	C	< 2.0	101.5	6385-006
3321 Alderdale	L 9	06/16/2011	2	C	C	< 2.0	< 5.0	6385-009
4425 Gardner	L 10	06/13/2011	2	C	C	< 2.0	39.2	6385-010
42271 Mayhew	L 11	06/10/2011	2	C	C	< 2.0	61.2	6385-011
40037 Vachon	L 16	06/13/2011	2	C	C	< 2.0	16.5	6385-016
40015 Vachon	L 18	06/13/2011	2	C	C	< 2.0	8.5	6385-018
13064 Beresford	L 19	06/10/2011	2	C	C	< 2.0	12.2	6385-019
12826 Beresford	L 20	06/13/2011	2	C	C	< 2.0	57.5	6385-020
14360 Drumright	L 21	06/14/2011	2	C	C	2.6	24.6	6385-021
40613 LaGrange	L 22	06/11/2011	2	C	C	< 2.0	18.0	6385-022
40456 La Grange	L 24	06/11/2011	2	C	C	< 2.0	100.0	6385-024
13990 Diversion	L 25	06/10/2011	2	C	C	< 2.0	7.9	6385-025
14947 Rivendell	L 26	06/13/2011	2	C	C	< 2.0	5.1	6385-026
15001 Rivendell	L 27	06/13/2011	2	C	C	< 2.0	27.5	6385-027

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 10, subparagraph "Sample Category".

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic

TO BE DETERMINED BY MDEQ

	90 th %ile	Ave	Max	Min	# > AL
Pb					
Cu					

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
RESOURCE MANAGEMENT DIVISION

LEAD AND COPPER REPORT AND

CONSUMER NOTICE OF LEAD RESULT

CERTIFICATE FOR COMMUNITY WATER SUPPLY

Issued under authority of 1976 PA 399 and Administrative Rules, as amended.

Failure to submit this information is a violation of the Act and may subject the water supply to enforcement penalties.

RECEIVED

SEP 17 2014



Co385
Polla

ODWMA - OWMRP

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within 10 days after the end of the monitoring period. This form may be used to meet this requirement. Submit the information to the appropriate Department of Environmental Quality (DEQ) district office. For district office addresses, visit www.michigan.gov/deq and click on Locations.

1. Water Supply Name: City of Sterling Heights
2. County: Macomb 3. WSSN: 6385
4. Population: 130,000 5. Monitoring Period: From: 6/24/2014 To: 8/1/2014
6. Minimum # of Samples Required: 24 7. # of Samples Taken: 25
8. Name of Certified Laboratory: DWSD - Water Quality Lab

9. SAMPLE CRITERIA:

Yes	No	Explain No responses in Comments block.
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☐	☒	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☐	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

Comments: Due to lack of response from previous participants, a number of participants are new. One sample is from a tier 3 site.

10. NAME:

Name: Richard J Hardin

Title: Water Division Supervisor

Phone: 586-446-2455

Date: 9/17/14

90th percentiles revealed to system 10-6-14 (see attached)

CB

Sample

RECEIVED

Consumer Notice of Lead Result in Drinking Water

SEP 17 2014

Water Supply Name: City of Sterling Heights

County: Macomb

WSSN: ODWMA - OWMRP

Sample Location: 14380 Brookings

Date Sampled: 6/25/14

Thank you for participating in the lead and copper monitoring of drinking water. The levels of lead and copper found at your location are in the table below.

Key to Table	Contaminant	AL	MCLG	Your Result
Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.	Lead (ppb)	15	0	<2.0
Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.	Copper (ppb)	1300	1300	10.6
ppb: parts per billion or micrograms per liter.				

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

To reduce exposure to lead in drinking water:

- Run your water to flush out lead. Run the water until it becomes cold.
- Use cold water for cooking and preparing baby formula. Do not cook with or drink water from the hot water tap; lead dissolves more easily in hot water.
- Do not boil water to remove lead. Boiling water will not reduce lead levels.
- Look for alternative sources or treatment of water. If your lead result is above 15 ppb, you may want to consider purchasing bottled water or a water filter. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-3010, or www.nsf.org for information on performance standards for water filters.
- Identify if your plumbing fixtures contain lead. New faucets, fittings, and valves, may contain up to 8 percent lead including those advertised or labeled as "lead-free" and may contribute lead to drinking water. Consumers should be aware of this when choosing fixtures and take appropriate precautions.

Although the primary sources of lead exposure for most children are deteriorating lead-based paint, lead-contaminated dust, and lead-contaminated soil, the U.S. EPA estimates that 10 to 20 percent of human exposure to lead may come from drinking water.

For more information, contact us at: (586) 446-2440

For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

Certification:

I certify that this public water supply has provided the consumer notice of lead result to persons served at each of the taps that was tested, either by mail or by another method approved by the DEQ, within 30 days of knowing the result. The Notice includes required content.



Signature

Water Division Sup.

Title

WSSN: 6385

9-17-14

Date Sent to Consumer

Reminder to water supplier: Complete this certification on only one (1) example copy of a notice sent to a consumer and submit it to the DEQ.

Drinking Water Lead & Copper Report & Certificate



1. System Name: Sterling Heights 2. WSSN: 6385
- 1a. County: Macomb
3. Population: 130,000 4. Monitoring Period: From: 06/2014 To: 09/2014
5. Minimum # of Samples Required: 24 6. # of Samples Taken: 625
7. Name of Certified Laboratory: DWSD - Water Quality Lab
8. SAMPLE CRITERIA:

Yes	No		
☐	☒	a. Are the same sampling points used as in the previous monitoring period?	
☐	☒	b. Are all samples from Tier 1 sites?	
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?	For more information see Instructions paragraph 10, subparagraph "Sample Category".
☐	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the water system?	
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?	

Comments:

Five of six samples are new participants.

9. CERTIFICATION:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e., one liter first draw samples following at least six hours of stagnation and that where necessary, proper instructions were given for homeowner collection).

Signature <u>Richard J. Hardin</u>	Phone: <u>586-446-2455</u>
Title: <u>Water Dept Supervisor</u>	Date: <u>8-1-14</u>

10. TAP SAMPLING DATA: (Use additional sheets as needed)

System Name/County

Sterling Hgts. / Macomb

WSSN

6385

RESULTS:

Sample Location	Site Code	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing	Lead (ppb)	Copper (ppb)	Lab #
14380 Brookings	M 002	06/25/2014	2	C	C	< 2.0	10.6	6385-002
3289 Alderdale	M 004	07/09/2014	2	C	C	< 2.0	< 5.0	6385-004
13946 Canal Road	M 008	07/14/2014	2	C	C	< 2.0	5.5	6385-008
4425 Gardner	M 010	07/10/2014	2	C	C	< 2.0	11.0	6385-010
13064 Beresford	M 019	06/24/2014	2	C	C	< 2.0	6.3	6385-019
12826 Beresford	M 020	07/22/2014	2	C	C	< 2.0	5.5	6385-020
14360 Drumright	M 021	06/24/2014	2	C	C	< 2.0	27.5	6385-021
13990 Diversion	M 025	06/28/2014	2	C	C	2.8	17.5	6385-025
15001 Rivendell	M 027	06/26/2014	2	C	C	< 2.0	15.2	6385-027
14936 Rivendell	M 028	07/10/2014	2	C	C	< 2.0	14.1	6385-028
12861 Beresford	M 029	07/11/2014	2	C	C	< 2.0	12.0	6385-029
43134 Ulman	M 031	07/10/2014	2	C	C	< 2.0	9.7	6385-031
3377 Alderdale	M 032	07/20/2014	2	C	C	< 2.0	< 5.0	6385-032
12630 Beresford	M 034	07/09/2014	2	C	C	< 2.0	20.1	6385-034
8911 Hensley	M 035	07/10/2014	2	C	C	< 2.0	22.2	6385-035
14052 Pernell	M 036	07/09/2014	2	C	C	< 2.0	< 5.0	6385-036
5107 Northlawn	M 037	07/13/2014	2	C	C	< 2.0	15.0	6385-037
4507 Gardner	M 038	07/17/2014	2	C	C	< 2.0	24.7	6385-038
34461 Barnum	M 039	07/22/2014	2	C	C	< 2.0	< 5.0	6385-039
12801 Picadilly	M 040	07/24/2014	2	C	C	< 2.0	11.1	6385-040
38315 Charwood	M 041	07/24/2014	2	C	C	< 2.0	46.0	6385-041
8730 Colonge	M 042	07/28/2014	2	C	C	< 2.0	5.4	6385-042
39510 Helena	M 043	07/22/2014	2	C	C	< 2.0	< 5.0	6385-043
42097 Farm Lane Court	M 044	08/01/2014	2	C	C	< 2.0	107.0	6385-044
42103 Arcadia	M 045	07/24/2014	2	C	C	< 2.0	< 5.0	6385-045

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 10, subparagraph "Sample Category".

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic

TO BE DETERMINED BY MDEQ

	90th %ile	Ave	Max	Min	# > AL
Pb	0	0.1	0.8	0	0
Cu	26.1	15.5	107	0	0

collected
6-24-14 →
8-1-14

Bergstrom, Carolyn (DEQ)

From: Patrick Williford <williford@dwsd.org>
Sent: Wednesday, September 10, 2014 2:45 PM
To: DEQ-DWMA-SEMI
Subject: 12 DWSD Communities' LCR Reports
Attachments: 2014 Auburn Hills LCR Report.pdf; 2014 Belleville LCR Report.pdf; 2014 Beverly Hills LCR Report.pdf; 2014 Brownstown Twp. LCR Report.pdf; 2014 Burtchville Twp. LCR Report.pdf; 2014 Clawson LCR Report.pdf; 2014 Northville Twp. LCR Report.pdf; 2014 Plymouth Twp. LCR Report.pdf; 2014 River Rouge LCR Report.pdf; 2014 Southfield LCR Report.pdf; 2014 Sterling Hgts. LCR Report.pdf; 2014 Taylor LCR Report.pdf; 2014-09-08 LCR Reports for AH-B-BH-BT-C-NT-PT-RR-S-SH-T.xlsx

LCR Reports Attached for:

Auburn Hills
 Belleville
 Beverly Hills
 Brownstown Twp.
 Burtchville Twp.
 Clawson
 Northville Twp.
 Plymouth Twp.
 River Rouge
 Southfield
 Sterling Hgts.
 Taylor

Sincerely,

Patrick Williford
 Principal Analytical Chemist
williford@DWSD.org
 Office: 313.926.8127

Detroit Water & Sewerage Dept.
 Water Quality Division
 Water Works Park Administration Bldg., RM 207
 10100 E. Jefferson Ave.
 Detroit, MI 48214-3139

"In God we trust."

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 -Gramm-Leach-Bliley Act 15 USC, Subchapter I, Sec. 6801-6809

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Sterling Heights (6385)

	Pb	Cu
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	5.4
8	0	5.5
9	0	5.5
10	0	6.3
11	0	9.7
12	0	10.6
13	0	11
14	0	11.1
15	0	12
16	0	14.1
17	0	15
18	0	15.2
19	0	17.5
20	0	20.1
21	0	22.2
22	0	24.7
23	0	27.5
24	0	46
25	2.8	107

22.5

90th	0.00	26.1
average	0.1	15.5
max	3	107
min	0	0
# > AL	0	0

Date Entered

Chem database

L&C Letter

Bergstrom, Carolyn (DEQ)

From: Bergstrom, Carolyn (DEQ)
Sent: Thursday, October 09, 2014 8:48 AM
To: 'jhardin@sterling-heights.net'
Cc: 'sconigliaro@sterling-heights.net'; 'mvanderpool@sterling-heights.net'
Subject: 2014 Lead and Copper Monitoring Results

We received your 2014 lead and copper monitoring results, reporting form, and certification of lead consumer notice. The results of your monitoring are as follows. Please retain for your records.

WSSN: 6385 Supply Name: City of Sterling Heights

Action Levels	90 th Percentile	# of Samples Above Action Level
Lead 15 parts per billion (ppb)	0 ppb	0
Copper 1300 parts per billion (ppb)	26.1 ppb	0

These results must be reported on your 2014 Consumer Confidence Report (CCR) due to our office, your customers and the local health department by July 1, 2015. Also include the following statement in the CCR, regardless of the lead and copper levels:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. [NAME OF UTILITY] is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at <http://water.epa.gov/drink/info/lead>.

Please contact me if you have any questions.

Thank you,

Carolyn Bergstrom
 Environmental Quality Analyst
 Office of Drinking Water and Municipal Assistance
 Michigan Department of Environmental Quality
 27700 Donald Court
 Warren, MI 48092
 Phone: 586-753-3755
 Fax: 586-753-3831

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
 RESOURCE MANAGEMENT DIVISION
**LEAD AND COPPER REPORT AND
 CONSUMER NOTICE OF LEAD RESULT
 CERTIFICATE FOR COMMUNITY WATER SUPPLY**



Issued under authority of 1976 PA 399 and Administrative Rules, as amended.

Failure to submit this information is a violation of the Act and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within 10 days after the end of the monitoring period. This form may be used to meet this requirement. Submit the information to the appropriate Department of Environmental Quality (DEQ) district office. For district office addresses, visit www.michigan.gov/deq and click on Contacts.

1. Water Supply Name: City of Warren
 2. County: Macomb 3. WSSN: 6900
 4. Population: 135,000 5. Monitoring Period: From: 6/1/2011 To: 9/30/2011
 6. Minimum # of Samples Required: 26 7. # of Samples Taken: 31
 8. Name of Certified Laboratory: DWSD Water Works Park Water Quality Laboratory

9. SAMPLE CRITERIA:

Yes	No	Explain No responses in Comments block.
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☐	☒	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☒	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

Comments: The City made an aggressive effort to notify and contact the 26 sample sites from 2008. As a result, only 11 sites were repeated from the 2008 list as noted in this report. The remainder of the sites was sampled from the list generated from 1999. The City has copies of the notifications and phone calls placed to these sample sites on record.

10. NAME:

Name: David Koss
 Title: Deputy Superintendent Phone: 586.610.1031 Date: 10/10/11

N ✓
C ✓

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Warren / MacombWSSN 6900

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
15189 Granada Plaza	8/17/11	2	c	C	<2.0	<15.0	6900-008
13660 Collins	8/23/11	2	C	C	<2.0	<15.0	6900-009
8628 timken	8/1/11	1	L	G	9.1	54.3	6900-024
22213 Curie	7/8/11	1	L	C	<2.0	38.40	6900-025
6244 Garden Ct	7/13/11	1	L	C	<2.0	<15.0	6900-026
3869 Berkshire	8/5/11	1	L	G/C	<2.0	<15.0	6900-035
27408 Gilbert	8/27/11	1	L	G/C	<2.0	199.0	6900-041
25610 Eureka	8/17/11	1	L	G	<2.0	<15.0	6900-056
24170 Cunningham	8/17/11	1	L	C	<2.0	16.7	6900-059
3980 Morrissey	8/10/11	1	L	G/C	<2.0	16.2	6900-066
11004 Engleman	8/19/11	2	C	C	<2.0	25.20	6900-071
14953 Lane	8/24/11	2	C	C	<2.0	17.7	6900-075
25520 Cloie	8/18/11	2	C	C	4.3	95.10	6900-076
2010 Bart Ave	7/8/11	2	C	C	<2.0	28.3	6900-102
15055 Lane	8/24/11	2	C	C	<2.0	17.9	6900-105
27653 James	8/17/11	2	C	C	4.5	65.8	6900-112
15170 Granada Plaza	7/8/11	2	C	C	<2.0	10.4	6900-117
15182 Granada Plaza	8/31/11	2	C	C	<2.0	<15.0	6900-132
5973 Peck	8/23/11	2	C	C	<2.0	48.6	6900-140
4917 Nine Mile	9/2/11	1	L	G	<2.0	129.0	6900-141

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

1271210201

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Warren / MacombWSSN 6900

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumb-ing ²	Lead (ppb)	Copper (ppb)	Lab #
15189 Granada Plaza	8/17/11	2	c	C	<2.0	<15.0	6900-008
13660 Collins	8/23/11	2	C	C	<2.0	<15.0	6900-009
8628 timken	8/1/11	1	L	G	9.1	54.3	6900-024
22213 Curie	7/8/11	1	L	C	<2.0	38.40	6900-025
6244 Garden Ct	7/13/11	1	L	C	<2.0	78.5	6900-026
3869 Berkshire	8/5/11	1	L	G/C	<2.0	<15.0	6900-035
27408 Gilbert	8/27/11	1	L	G/C	<2.0	199.0	6900-041
25610 Eureka	8/17/11	1	L	G	<2.0	<15.0	6900-056
24170 Cunningham	8/17/11	1	L	C	<2.0	16.7	6900-059
3980 Morrissey	8/10/11	1	L	G/C	<2.0	16.2	6900-066
11004 Engleman	8/19/11	2	C	C	<2.0	25.20	6900-071
14953 Lane	8/24/11	2	C	C	<2.0	17.7	6900-075
25520 Cloie	8/18/11	2	C	C	4.3	95.10	6900-076
2010 Bart Ave	7/8/11	2	C	C	<2.0	28.3	6900-102
15055 Lane	8/24/11	2	C	C	<2.0	17.9	6900-105
27653 James	8/17/11	2	C	C	4.5	65.8	6900-112
15170 Granada Plaza	7/8/11	2	C	C	<2.0	10.4	6900-117
15182 Granada Plaza	8/31/11	2	C	C	<2.0	<15.0	6900-132
5973 Peck	8/23/11	2	C	C	<2.0	48.6	6900-140
4917 Nine Mile	9/2/11	1	L	G	<2.0	129.0	6900-141

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb	3	1	9.1	0
Cu	93	40	199	0

L ✓
S ✓
Db ✓

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Warren / MacombWSSN 6900

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
22308 Curie	8/25/11	1	L	G	<2.0	185.0	6900-145
15184 Raphael terrace	7/14/11	2	C	C	<2.0	8.3	6900-146
4984 Kelly Drive	9/1/11	2	C	C	<2.0	<15.0	6900-150
21545 Curie	8/30/11	1	L	G/C	<2.0	15.7	6900-154
28089 Louise St.	8/29/11	2	C	C	<2.0	46.5	6900-156
26670 Dover	8/30/11	2	C	C	<2.0	21.5	6900-157
3666 Alvina	7/12/11	1	L	C	3.2	49.5	6900-170
32480 Sunny Lane	7/7/11	1	L	G/C	<2.0	15.4	6900-175
27749 Lorraine	7/13/11	2	C	G/C	<2.0	18.8	6900-178
28031 Lorraine	7/13/11	2	C	C	<2.0	31.5	6900-179
7536 Republic	9/2/11	2	C	C	<2.0	<15.0	6900-185

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

12. **CONSUMER NOTICE OF LEAD RESULT CERTIFICATION:** Each Community Water Supply (CWS) must deliver a consumer notice of lead result to occupants of each location sampled within 30 days of knowing the sample result under 40 CFR §141.85 of the Lead and Copper Rule Short Term Regulatory Revisions and Clarifications. A template of the notice is available on the next page.

Not later than 3 months following the end of the monitoring period, each CWS must mail a sample copy of the consumer notice of lead result to the DEQ along with a certification that the notice has been distributed under 40 CFR §141.91(f)(3). This sheet (page 3) may be used to meet the certification requirement. Submit this certification sheet along with a sample copy of a notice sent to consumers to the appropriate DEQ district office. For district office addresses, visit www.michigan.gov/deq and click on Contacts.

I certify that this public water supply has provided the consumer notice of lead result to persons served at each of the taps that was tested, either by mail or by another method approved by the DEQ, within 30 days of knowing the result. Attached is a sample of the notice I sent to consumers. It includes:

- The result of lead tap water monitoring for the tap that was tested.
- An explanation of the health effects of lead.
- Steps consumers can take to reduce exposure to lead in drinking water.
- Contact information for the public water supply.
- The maximum contaminant level goal and the action level for lead and the definitions for these two terms.

Water Supply Name:	City of Warren		
County:	Macomb	WSSN:	6900
Signature:			
Printed Name:	David Koss		
Title:	Deputy Superintendent	Phone:	586.610.1031
		Date:	10-10-11

**WARREN**

Sample Letter
and notification sent
to all on sample form

Mailed 10/6/11

JAMES R. FOUTS, MAYOR

Water Division
12821 Stephens Road
Warren, MI 48089
(586) 759-9200

Thomas C. Pawelkowski
Superintendent

October 6, 2011

Occupant
15189 Granada Plaza
Warren, MI 48089

Dear Water Customer:

On behalf of the City of Warren Water Division, I would like to personally thank you for participating in the 2011 Lead and Copper Drinking Water monitoring program. I am pleased to inform you of your lead and copper sampling results as presented on the Consumer Notice of Lead Results included with this correspondence. The results for Lead and Copper in your home are below the Action Level (AL) as regulated by the U.S. EPA Lead and Copper Rule. Although the AL is below the Maximum Contaminant Level as regulated in the Lead and Copper Rule, we are providing you with precautions in reducing lead exposure in your drinking water. The City of Warren Water Division continues its effort to provide safe clean drinking water to you and your family members.

If you have any questions in regards to the Lead and Copper results, please contact our office at 586.759.9248 for a representative can assist you with your concerns.

Thank you,



David Koss, Deputy Superintendent
City of Warren Water Division

Consumer Notice of Lead Result in Drinking Water

Water Supply Name: City of Warren
 County: Macomb WSSN: 6900
 Sample Location: 15189 Granada Plaza Date Sampled: 8/17/11

Thank you for participating in the lead and copper monitoring of drinking water. The levels of lead and copper found at your location are in the table below.

Key to Table	Contaminant	AL	MCLG	Your Result
Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. ppb: parts per billion or micrograms per liter.	Lead (ppb)	15	0	0
	Copper (ppb)	1300	1300	0

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

To reduce exposure to lead in drinking water:

- *Run your water to flush out lead.* Run the water until it becomes cold.
- *Use cold water for cooking and preparing baby formula.* Do not cook with or drink water from the hot water tap; lead dissolves more easily in hot water.
- *Do not boil water to remove lead.* Boiling water will not reduce lead levels.
- *Look for alternative sources or treatment of water.* If your lead result is above 15 ppb, you may want to consider purchasing bottled water or a water filter. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for information on performance standards for water filters.
- *Identify if your plumbing fixtures contain lead.* New faucets, fittings, and valves, may contain up to 8 percent lead including those advertised or labeled as "lead-free" and may contribute lead to drinking water. Consumers should be aware of this when choosing fixtures and take appropriate precautions.

Although the primary sources of lead exposure for most children are deteriorating lead-based paint, lead-contaminated dust, and lead-contaminated soil, the U.S. EPA estimates that 10 to 20 percent of human exposure to lead may come from drinking water.

For more information, contact us at City of Warren Water Division, 12821 Stephens, Warren, MI 48089 or call 586 759-9248. For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

October 14, 2011

Mr. David Koss
12821 Stephens Road
Warren, Michigan 48089

Dear Mr. Koss:

SUBJECT: City of Warren – WSSN: 06900
Lead and Copper Monitoring of Drinking Water Taps

We received your report for the monitoring period June 1, 2011, through September 30, 2011.

Action Levels	Results this monitoring period		Next monitoring period	
	90 th Percentile	# of Samples Above Action Level	# of Samples Required	Take Samples Within These Dates
Lead – 15 ppb	3 ppb	0	26	June 1 and September 30, 2014
Copper – 1300 ppb	93 ppb	0		Submit results to this office by October 10, 2014

Ninety percent of the sites you tested are within action levels under the administrative rules promulgated under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended. These results must be reported on your 2011 Consumer Confidence Report (CCR) due to our office, your customers and the local health department by July 1, 2012. Also include the following statement in the CCR, regardless of the lead and copper levels:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. [NAME OF UTILITY] is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at <http://water.epa.gov/drink/info/lead>.

Samples due during the next period continue your triennial monitoring. Please make every attempt to select the same sites used in the previous monitoring period, giving Tier 1 sites first priority. If original sites are unavailable, select replacement sites based on the Tier 1, 2, and 3 criteria. We strongly encourage you to sample early in the monitoring period.

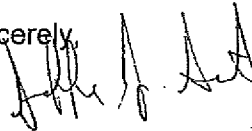
Mr. David Koss
Page 2
October 14, 2011

Bottles will NOT be mailed automatically. To order bottles, call the DEQ Laboratory at 517-335-8184 or download the form EQP 2301 *Requisition for Water Sample Units* from <http://michigan.gov/deq>. Click on Key Environmental Topics, Laboratory Services, Drinking Water, Obtaining The Necessary Sampling Units, and test list.

Please contact the Detroit Water and Sewerage Department (DWSD) for sample bottles, reporting forms, and the schedule for accepting samples for analysis. Thank you for your cooperation.

If you have any questions, please contact me at 517-780-7840; Department of Environmental Quality, 301 East Louis Glick Highway, Jackson, Michigan 49201-1556; or by email at antilj@michigan.gov.

Sincerely,



Jeff Antil
Drinking Water Analyst
Jackson District Office
Resource Management Division

ja:red