



Brighton Analytical LLC
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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 1/9/2015 12:08:00
Submit Date/Time: 1/9/2015 12:14:45
Report Date: 1/15/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33034**
BA Sample ID **CA09822**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#1 NBCN Bsmt.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Arsenic (Drinking Water)	4	ug/L	1	10	EPA 200.8 rev5.4	15:45	01/12/2015
Total Copper (Drinking Water)	Not detected	ug/L	20	1300	EPA 200.8 rev5.4	15:45	01/12/2015
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	15:45	01/12/2015
Total Sodium (Drinking Water)	20000	ug/L	1000		EPA 200.7	10:02	01/14/2015
Total Metal Analysis							
Hardness by Calculation	210000	ug/L	5000		EPA 200.8 rev5.4	15:45	01/12/2015
Total Iron	620	ug/L	20		EPA 200.8 rev5.4	15:45	01/12/2015
Inorganic Analysis							
Chloride	85000	ug/L	1000		EPA 300.0R2.1	15:03	01/09/2015
Total Alkalinity	110000	ug/L	5000		SM2320B	09:50	01/15/2015
Drinking Water Inorganic Analysis							
Fluoride (Drinking Water)	300	ug/L	100	4000	EPA 300.0R2.1	15:03	01/09/2015
Nitrate (Drinking Water)	730	ug/L	50	10000	EPA 300.0R2.1	15:03	01/09/2015
Nitrite (Drinking Water)	Not detected	ug/L	50	1000	EPA 300.0R2.1	15:03	01/09/2015
pH (Drinking Water)	6.3	S.I.			SM4500 H+B	15:00	01/09/2015
Sulfate (Drinking Water)	34000	ug/L	5000		EPA 300.0R2.1	15:03	01/09/2015
Drinking Water Microbiological Analysis							
E. coli(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Total Coliform(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Drinking Water Volatile Analysis							
Benzene	Not detected	ug/L	0.5	5	EPA 524.2	19:59	01/12/2015
Bromobenzene	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015
Bromochloromethane	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015
Bromodichloromethane	18	ug/L	0.5	80	EPA 524.2	19:59	01/12/2015
Bromoform	5	ug/L	0.5	80	EPA 524.2	19:59	01/12/2015
Bromomethane	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015
Carbon tetrachloride	Not detected	ug/L	0.5	5	EPA 524.2	19:59	01/12/2015
Chlorobenzene	Not detected	ug/L	0.5	100	EPA 524.2	19:59	01/12/2015
Chloroethane	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015
Chloroform	13	ug/L	0.5	80	EPA 524.2	19:59	01/12/2015
Chloromethane	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015



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Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#1 NBCN Bsm.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
trans-1,2-Dichloroethene	Not detected	ug/L	0.5	100	EPA 524.2	19:59	01/12/2015
trans-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015
1,2,4-Trichlorobenzene	Not detected	ug/L	0.5		EPA 524.2	19:59	01/12/2015
1,2,3-Trichlorobenzene	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015
1,1,2-Trichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	19:59	01/12/2015
1,1,1-Trichloroethane	Not detected	ug/L	0.5	200	EPA 524.2	19:59	01/12/2015
Trichloroethene	Not detected	ug/L	0.5	5	EPA 524.2	19:59	01/12/2015
Trichlorofluoromethane	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015
1,2,3-Trichloropropane	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015
1,3,5-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015
1,2,4-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	19:59	01/12/2015
Vinyl chloride	Not detected	ug/L	0.5	2	EPA 524.2	19:59	01/12/2015
Xylenes(total)	Not detected	ug/L	1.5	10000	EPA 524.2	19:59	01/12/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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BA Project # **33034**
 BA Sample ID **CA09823**

Project Name: **MCN0115.03**
 Project Number: **MCN0115.03**
 Sample ID: **#2 NBCN 8th Flr.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
cis-1,2-Dichloroethene	Not detected	ug/L	0.5	70	EPA 524.2	21:37	01/12/2015
cis-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
Dibromochloromethane	14	ug/L	0.5	80	EPA 524.2	21:37	01/12/2015
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/L	0.5		EPA 524.2	21:37	01/12/2015
Dibromomethane	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
1,4-Dichlorobenzene	Not detected	ug/L	0.5	75	EPA 524.2	21:37	01/12/2015
1,3-Dichlorobenzene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
1,2-Dichlorobenzene	Not detected	ug/L	0.5	600	EPA 524.2	21:37	01/12/2015
Dichlorodifluoromethane	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
1,1-Dichloroethane	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
1,2-Dichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	21:37	01/12/2015
1,1-Dichloroethene	Not detected	ug/L	0.5	7	EPA 524.2	21:37	01/12/2015
1,2-Dichloropropane	Not detected	ug/L	0.5	5	EPA 524.2	21:37	01/12/2015
2,2-Dichloropropane	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
1,3-Dichloropropane	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
1,1-Dichloropropene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
Ethylbenzene	Not detected	ug/L	0.5	700	EPA 524.2	21:37	01/12/2015
Hexachlorobutadiene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
Isopropylbenzene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
4-Isopropyltoluene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
Methylene chloride	Not detected	ug/L	0.5	5	EPA 524.2	21:37	01/12/2015
Methyl(tert)butyl ether(MTBE)	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
Naphthalene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
n-Butylbenzene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
n-Propylbenzene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
sec-Butylbenzene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
Styrene	Not detected	ug/L	0.5	100	EPA 524.2	21:37	01/12/2015
tert-Butylbenzene	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	21:37	01/12/2015
Tetrachloroethene	Not detected	ug/L	0.5	5	EPA 524.2	21:37	01/12/2015
Toluene	Not detected	ug/L	0.5	1000	EPA 524.2	21:37	01/12/2015
Total TTHM (Drinking Water)	51	ug/L	2.0		EPA 524.2	21:37	01/12/2015



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BA Project # **33034**
BA Sample ID **CA09824**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#3 NBCS Bsmt**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Arsenic (Drinking Water)	Not detected	ug/L	1	10	EPA 200.8 rev5.4	15:57	01/12/2015
Total Copper (Drinking Water)	Not detected	ug/L	20	1300	EPA 200.8 rev5.4	15:57	01/12/2015
Total Lead (Drinking Water)	7	ug/L	1	15	EPA 200.8 rev5.4	15:57	01/12/2015
Total Sodium (Drinking Water)	18000	ug/L	1000		EPA 200.7	10:07	01/14/2015
Total Metal Analysis							
Hardness by Calculation	210000	ug/L	5000		EPA 200.8 rev5.4	15:57	01/12/2015
Total Iron	310	ug/L	20		EPA 200.8 rev5.4	15:57	01/12/2015
Inorganic Analysis							
Chloride	85000	ug/L	1000		EPA 300.0R2.1	15:54	01/09/2015
Total Alkalinity	110000	ug/L	5000		SM2320B	10:02	01/15/2015
Drinking Water Inorganic Analysis							
Fluoride (Drinking Water)	400	ug/L	100	4000	EPA 300.0R2.1	15:54	01/09/2015
Nitrate (Drinking Water)	890	ug/L	50	10000	EPA 300.0R2.1	15:54	01/09/2015
Nitrite (Drinking Water)	Not detected	ug/L	50	1000	EPA 300.0R2.1	15:54	01/09/2015
pH (Drinking Water)	7.0	S.I.			SM4500 H+B	15:07	01/09/2015
Sulfate (Drinking Water)	35000	ug/L	5000		EPA 300.0R2.1	15:54	01/09/2015
Drinking Water Microbiological Analysis							
E. coli(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Total Coliform(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Drinking Water Volatile Analysis							
Benzene	Not detected	ug/L	0.5	5	EPA 524.2	21:56	01/12/2015
Bromobenzene	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015
Bromochloromethane	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015
Bromodichloromethane	19	ug/L	0.5	80	EPA 524.2	21:56	01/12/2015
Bromoform	4	ug/L	0.5	80	EPA 524.2	21:56	01/12/2015
Bromomethane	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015
Carbon tetrachloride	Not detected	ug/L	0.5	5	EPA 524.2	21:56	01/12/2015
Chlorobenzene	Not detected	ug/L	0.5	100	EPA 524.2	21:56	01/12/2015
Chloroethane	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015
Chloroform	14	ug/L	0.5	80	EPA 524.2	21:56	01/12/2015
Chloromethane	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015



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BA Project # **33034**
BA Sample ID **CA09824**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#3 NBCS Bsmt**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
trans-1,2-Dichloroethene	Not detected	ug/L	0.5	100	EPA 524.2	21:56	01/12/2015
trans-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015
1,2,4-Trichlorobenzene	Not detected	ug/L	0.5		EPA 524.2	21:56	01/12/2015
1,2,3-Trichlorobenzene	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015
1,1,2-Trichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	21:56	01/12/2015
1,1,1-Trichloroethane	Not detected	ug/L	0.5	200	EPA 524.2	21:56	01/12/2015
Trichloroethene	Not detected	ug/L	0.5	5	EPA 524.2	21:56	01/12/2015
Trichlorofluoromethane	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015
1,2,3-Trichloropropane	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015
1,2,4-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015
1,3,5-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	21:56	01/12/2015
Vinyl chloride	Not detected	ug/L	0.5	2	EPA 524.2	21:56	01/12/2015
Xylenes(total)	Not detected	ug/L	1.5	10000	EPA 524.2	21:56	01/12/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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BA Project # **33034**
BA Sample ID **CA09825**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#4 NBCS 3rd Flr.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
4-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
cis-1,2-Dichloroethene	Not detected	ug/L	0.5	70	EPA 524.2	22:15	01/12/2015
cis-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
Dibromochloromethane	11	ug/L	0.5	80	EPA 524.2	22:15	01/12/2015
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/L	0.5		EPA 524.2	22:15	01/12/2015
Dibromomethane	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
1,2-Dichlorobenzene	Not detected	ug/L	0.5	600	EPA 524.2	22:15	01/12/2015
1,3-Dichlorobenzene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
1,4-Dichlorobenzene	Not detected	ug/L	0.5	75	EPA 524.2	22:15	01/12/2015
Dichlorodifluoromethane	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
1,2-Dichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	22:15	01/12/2015
1,1-Dichloroethane	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
1,1-Dichloroethene	Not detected	ug/L	0.5	7	EPA 524.2	22:15	01/12/2015
2,2-Dichloropropane	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
1,3-Dichloropropane	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
1,2-Dichloropropane	Not detected	ug/L	0.5	5	EPA 524.2	22:15	01/12/2015
1,1-Dichloropropene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
Ethylbenzene	Not detected	ug/L	0.5	700	EPA 524.2	22:15	01/12/2015
Hexachlorobutadiene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
Isopropylbenzene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
4-Isopropyltoluene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
Methylene chloride	Not detected	ug/L	0.5	5	EPA 524.2	22:15	01/12/2015
Methyl(tert)butyl ether(MTBE)	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
Naphthalene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
n-Butylbenzene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
n-Propylbenzene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
sec-Butylbenzene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
Styrene	Not detected	ug/L	0.5	100	EPA 524.2	22:15	01/12/2015
tert-Butylbenzene	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	22:15	01/12/2015
Tetrachloroethene	Not detected	ug/L	0.5	5	EPA 524.2	22:15	01/12/2015
Toluene	Not detected	ug/L	0.5	1000	EPA 524.2	22:15	01/12/2015
Total TTHM (Drinking Water)	46	ug/L	2.0		EPA 524.2	22:15	01/12/2015



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BA Project # **33034**
BA Sample ID **CA09826**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#5 WSW Mech.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Arsenic (Drinking Water)	2	ug/L	1	10	EPA 200.8 rev5.4	16:26	01/12/2015
Total Copper (Drinking Water)	Not detected	ug/L	20	1300	EPA 200.8 rev5.4	16:26	01/12/2015
Total Lead (Drinking Water)	3	ug/L	1	15	EPA 200.8 rev5.4	16:26	01/12/2015
Total Sodium (Drinking Water)	18000	ug/L	1000		EPA 200.7	10:12	01/14/2015
Total Metal Analysis							
Hardness by Calculation	170000	ug/L	5000		EPA 200.8 rev5.4	16:26	01/12/2015
Total Iron	230	ug/L	20		EPA 200.8 rev5.4	16:26	01/12/2015
Inorganic Analysis							
Chloride	85000	ug/L	1000		EPA 300.0R2.1	16:46	01/09/2015
Total Alkalinity	84000	ug/L	5000		SM2320B	10:14	01/15/2015
Drinking Water Inorganic Analysis							
Fluoride (Drinking Water)	100	ug/L	100	4000	EPA 300.0R2.1	16:46	01/09/2015
Nitrate (Drinking Water)	1100	ug/L	50	10000	EPA 300.0R2.1	16:46	01/09/2015
Nitrite (Drinking Water)	Not detected	ug/L	50	1000	EPA 300.0R2.1	16:46	01/09/2015
pH (Drinking Water)	7.2	S.I.			SM4500 H+B	15:17	01/09/2015
Sulfate (Drinking Water)	36000	ug/L	5000		EPA 300.0R2.1	16:46	01/09/2015
Drinking Water Microbiological Analysis							
E. coli(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Total Coliform(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Drinking Water Volatile Analysis							
Benzene	Not detected	ug/L	0.5	5	EPA 524.2	22:35	01/12/2015
Bromobenzene	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015
Bromochloromethane	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015
Bromodichloromethane	11	ug/L	0.5	80	EPA 524.2	22:35	01/12/2015
Bromoform	3	ug/L	0.5	80	EPA 524.2	22:35	01/12/2015
Bromomethane	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015
Carbon tetrachloride	Not detected	ug/L	0.5	5	EPA 524.2	22:35	01/12/2015
Chlorobenzene	Not detected	ug/L	0.5	100	EPA 524.2	22:35	01/12/2015
Chloroethane	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015
Chloroform	8	ug/L	0.5	80	EPA 524.2	22:35	01/12/2015
Chloromethane	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015
4-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015



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Monarch Environmental, Inc.
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BA Project # **33034**
BA Sample ID **CA09826**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#5 WSW Mech.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
trans-1,2-Dichloroethene	Not detected	ug/L	0.5	100	EPA 524.2	22:35	01/12/2015
trans-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015
1,2,4-Trichlorobenzene	Not detected	ug/L	0.5		EPA 524.2	22:35	01/12/2015
1,2,3-Trichlorobenzene	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015
1,1,2-Trichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	22:35	01/12/2015
1,1,1-Trichloroethane	Not detected	ug/L	0.5	200	EPA 524.2	22:35	01/12/2015
Trichloroethene	Not detected	ug/L	0.5	5	EPA 524.2	22:35	01/12/2015
Trichlorofluoromethane	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015
1,2,3-Trichloropropane	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015
1,3,5-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015
1,2,4-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	22:35	01/12/2015
Vinyl chloride	Not detected	ug/L	0.5	2	EPA 524.2	22:35	01/12/2015
Xylenes(total)	Not detected	ug/L	1.5	10000	EPA 524.2	22:35	01/12/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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BA Project # **33034**
 BA Sample ID **CA09827**

Project Name: **MCN0115.03**
 Project Number: **MCN0115.03**
 Sample ID: **#6 WSW 4th Flr.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
cis-1,2-Dichloroethene	Not detected	ug/L	0.5	70	EPA 524.2	22:55	01/12/2015
cis-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
Dibromochloromethane	4	ug/L	0.5	80	EPA 524.2	22:55	01/12/2015
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/L	0.5		EPA 524.2	22:55	01/12/2015
Dibromomethane	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
1,2-Dichlorobenzene	Not detected	ug/L	0.5	600	EPA 524.2	22:55	01/12/2015
1,3-Dichlorobenzene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
1,4-Dichlorobenzene	Not detected	ug/L	0.5	75	EPA 524.2	22:55	01/12/2015
Dichlorodifluoromethane	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
1,2-Dichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	22:55	01/12/2015
1,1-Dichloroethane	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
1,1-Dichloroethene	Not detected	ug/L	0.5	7	EPA 524.2	22:55	01/12/2015
1,2-Dichloropropane	Not detected	ug/L	0.5	5	EPA 524.2	22:55	01/12/2015
1,3-Dichloropropane	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
2,2-Dichloropropane	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
1,1-Dichloropropene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
Ethylbenzene	Not detected	ug/L	0.5	700	EPA 524.2	22:55	01/12/2015
Hexachlorobutadiene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
Isopropylbenzene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
4-Isopropyltoluene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
Methylene chloride	Not detected	ug/L	0.5	5	EPA 524.2	22:55	01/12/2015
Methyl(tert)butyl ether(MTBE)	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
Naphthalene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
n-Butylbenzene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
n-Propylbenzene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
sec-Butylbenzene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
Styrene	Not detected	ug/L	0.5	100	EPA 524.2	22:55	01/12/2015
tert-Butylbenzene	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	22:55	01/12/2015
Tetrachloroethene	Not detected	ug/L	0.5	5	EPA 524.2	22:55	01/12/2015
Toluene	Not detected	ug/L	0.5	1000	EPA 524.2	22:55	01/12/2015
Total TTHM (Drinking Water)	28	ug/L	2.0		EPA 524.2	22:55	01/12/2015



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BA Project # **33034**
BA Sample ID **CA09828**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#7 UPAV Bsmt.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Arsenic (Drinking Water)	5	ug/L	1	10	EPA 200.8 rev5.4	16:38	01/12/2015
Total Copper (Drinking Water)	Not detected	ug/L	20	1300	EPA 200.8 rev5.4	16:38	01/12/2015
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	16:38	01/12/2015
Total Sodium (Drinking Water)	16000	ug/L	1000		EPA 200.7	10:43	01/14/2015
Total Metal Analysis							
Hardness by Calculation	210000	ug/L	5000		EPA 200.8 rev5.4	16:38	01/12/2015
Total Iron	80	ug/L	20		EPA 200.8 rev5.4	16:38	01/12/2015
Inorganic Analysis							
Chloride	83000	ug/L	1000		EPA 300.0R2.1	17:38	01/09/2015
Total Alkalinity	100000	ug/L	5000		SM2320B	10:25	01/15/2015
Drinking Water Inorganic Analysis							
Fluoride (Drinking Water)	400	ug/L	100	4000	EPA 300.0R2.1	17:38	01/09/2015
Nitrate (Drinking Water)	930	ug/L	50	10000	EPA 300.0R2.1	17:38	01/09/2015
Nitrite (Drinking Water)	Not detected	ug/L	50	1000	EPA 300.0R2.1	17:38	01/09/2015
pH (Drinking Water)	7.9	S.I.			SM4500 H+B	15:35	01/09/2015
Sulfate (Drinking Water)	35000	ug/L	5000		EPA 300.0R2.1	17:38	01/09/2015
Drinking Water Microbiological Analysis							
E. coli(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Total Coliform(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Drinking Water Volatile Analysis							
Benzene	Not detected	ug/L	0.5	5	EPA 524.2	23:14	01/12/2015
Bromobenzene	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015
Bromochloromethane	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015
Bromodichloromethane	19	ug/L	0.5	80	EPA 524.2	23:14	01/12/2015
Bromoform	3	ug/L	0.5	80	EPA 524.2	23:14	01/12/2015
Bromomethane	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015
Carbon tetrachloride	Not detected	ug/L	0.5	5	EPA 524.2	23:14	01/12/2015
Chlorobenzene	Not detected	ug/L	0.5	100	EPA 524.2	23:14	01/12/2015
Chloroethane	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015
Chloroform	14	ug/L	0.5	80	EPA 524.2	23:14	01/12/2015
Chloromethane	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015
4-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015



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BA Project # **33034**
BA Sample ID **CA09828**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#7 UPAV Bsm.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
trans-1,2-Dichloroethene	Not detected	ug/L	0.5	100	EPA 524.2	23:14	01/12/2015
trans-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015
1,2,4-Trichlorobenzene	Not detected	ug/L	0.5		EPA 524.2	23:14	01/12/2015
1,2,3-Trichlorobenzene	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015
1,1,1-Trichloroethane	Not detected	ug/L	0.5	200	EPA 524.2	23:14	01/12/2015
1,1,2-Trichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	23:14	01/12/2015
Trichloroethene	Not detected	ug/L	0.5	5	EPA 524.2	23:14	01/12/2015
Trichlorofluoromethane	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015
1,2,3-Trichloropropane	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015
1,2,4-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015
1,3,5-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	23:14	01/12/2015
Vinyl chloride	Not detected	ug/L	0.5	2	EPA 524.2	23:14	01/12/2015
Xylenes(total)	Not detected	ug/L	1.5	10000	EPA 524.2	23:14	01/12/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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BA Project # **33034**

Project Name: **MCN0115.03**

BA Sample ID **CA09829**

Project Number: **MCN0115.03**

Sample ID: **#8 UPAV 2nd Flr.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
4-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
cis-1,2-Dichloroethene	Not detected	ug/L	0.5	70	EPA 524.2	23:34	01/12/2015
cis-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
Dibromochloromethane	10	ug/L	0.5	80	EPA 524.2	23:34	01/12/2015
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/L	0.5		EPA 524.2	23:34	01/12/2015
Dibromomethane	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
1,4-Dichlorobenzene	Not detected	ug/L	0.5	75	EPA 524.2	23:34	01/12/2015
1,2-Dichlorobenzene	Not detected	ug/L	0.5	600	EPA 524.2	23:34	01/12/2015
1,3-Dichlorobenzene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
Dichlorodifluoromethane	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
1,1-Dichloroethane	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
1,2-Dichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	23:34	01/12/2015
1,1-Dichloroethene	Not detected	ug/L	0.5	7	EPA 524.2	23:34	01/12/2015
2,2-Dichloropropane	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
1,3-Dichloropropane	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
1,2-Dichloropropane	Not detected	ug/L	0.5	5	EPA 524.2	23:34	01/12/2015
1,1-Dichloropropene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
Ethylbenzene	Not detected	ug/L	0.5	700	EPA 524.2	23:34	01/12/2015
Hexachlorobutadiene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
Isopropylbenzene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
4-Isopropyltoluene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
Methylene chloride	Not detected	ug/L	0.5	5	EPA 524.2	23:34	01/12/2015
Methyl(tert)butyl ether(MTBE)	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
Naphthalene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
n-Butylbenzene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
n-Propylbenzene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
sec-Butylbenzene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
Styrene	Not detected	ug/L	0.5	100	EPA 524.2	23:34	01/12/2015
tert-Butylbenzene	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	23:34	01/12/2015
Tetrachloroethene	Not detected	ug/L	0.5	5	EPA 524.2	23:34	01/12/2015
Toluene	Not detected	ug/L	0.5	1000	EPA 524.2	23:34	01/12/2015
Total TTHM (Drinking Water)	41	ug/L	2.0		EPA 524.2	23:34	01/12/2015



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BA Project # **33034**
 BA Sample ID **CA09830**

Project Name: **MCN0115.03**
 Project Number: **MCN0115.03**
 Sample ID: **#9 CEPLL**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Arsenic (Drinking Water)	3	ug/L	1	10	EPA 200.8 rev5.4	18:11	01/12/2015
Total Copper (Drinking Water)	Not detected	ug/L	20	1300	EPA 200.8 rev5.4	18:11	01/12/2015
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	18:11	01/12/2015
Total Sodium (Drinking Water)	16000	ug/L	1000		EPA 200.7	10:55	01/14/2015
Total Metal Analysis							
Hardness by Calculation	170000	ug/L	5000		EPA 200.8 rev5.4	18:11	01/12/2015
Total Iron	Not detected	ug/L	20		EPA 200.8 rev5.4	18:11	01/12/2015
Inorganic Analysis							
Chloride	85000	ug/L	1000		EPA 300.0R2.1	18:29	01/09/2015
Total Alkalinity	61000	ug/L	5000		SM2320B	10:40	01/15/2015
Drinking Water Inorganic Analysis							
Fluoride (Drinking Water)	100	ug/L	100	4000	EPA 300.0R2.1	18:29	01/09/2015
Nitrate (Drinking Water)	1100	ug/L	50	10000	EPA 300.0R2.1	18:29	01/09/2015
Nitrite (Drinking Water)	Not detected	ug/L	50	1000	EPA 300.0R2.1	18:29	01/09/2015
pH (Drinking Water)	7.6	S.I.			SM4500 H+B	15:47	01/09/2015
Sulfate (Drinking Water)	36000	ug/L	5000		EPA 300.0R2.1	18:29	01/09/2015
Drinking Water Microbiological Analysis							
E. coli(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Total Coliform(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Drinking Water Volatile Analysis							
Benzene	Not detected	ug/L	0.5	5	EPA 524.2	23:53	01/12/2015
Bromobenzene	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015
Bromochloromethane	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015
Bromodichloromethane	9	ug/L	0.5	80	EPA 524.2	23:53	01/12/2015
Bromoform	2	ug/L	0.5	80	EPA 524.2	23:53	01/12/2015
Bromomethane	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015
Carbon tetrachloride	Not detected	ug/L	0.5	5	EPA 524.2	23:53	01/12/2015
Chlorobenzene	Not detected	ug/L	0.5	100	EPA 524.2	23:53	01/12/2015
Chloroethane	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015
Chloroform	6	ug/L	0.5	80	EPA 524.2	23:53	01/12/2015
Chloromethane	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015



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BA Project # **33034**
BA Sample ID **CA09830**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#9 CEPLL**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
trans-1,2-Dichloroethene	Not detected	ug/L	0.5	100	EPA 524.2	23:53	01/12/2015
trans-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015
1,2,4-Trichlorobenzene	Not detected	ug/L	0.5		EPA 524.2	23:53	01/12/2015
1,2,3-Trichlorobenzene	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015
1,1,2-Trichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	23:53	01/12/2015
1,1,1-Trichloroethane	Not detected	ug/L	0.5	200	EPA 524.2	23:53	01/12/2015
Trichloroethene	Not detected	ug/L	0.5	5	EPA 524.2	23:53	01/12/2015
Trichlorofluoromethane	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015
1,2,3-Trichloropropane	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015
1,2,4-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015
1,3,5-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	23:53	01/12/2015
Vinyl chloride	Not detected	ug/L	0.5	2	EPA 524.2	23:53	01/12/2015
Xylenes(total)	Not detected	ug/L	1.5	10000	EPA 524.2	23:53	01/12/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 1/9/2015 1: 10:00
Submit Date/Time: 1/9/2015 1: 14:45
Report Date: 1/15/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33034**
BA Sample ID **CA09831**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#10 CEP 1st Flr.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
cis-1,2-Dichloroethene	Not detected	ug/L	0.5	70	EPA 524.2	00:13	01/12/2015
cis-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
Dibromochloromethane	14	ug/L	0.5	80	EPA 524.2	00:13	01/12/2015
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/L	0.5		EPA 524.2	00:13	01/12/2015
Dibromomethane	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
1,2-Dichlorobenzene	Not detected	ug/L	0.5	600	EPA 524.2	00:13	01/12/2015
1,3-Dichlorobenzene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
1,4-Dichlorobenzene	Not detected	ug/L	0.5	75	EPA 524.2	00:13	01/12/2015
Dichlorodifluoromethane	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
1,2-Dichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	00:13	01/12/2015
1,1-Dichloroethane	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
1,1-Dichloroethene	Not detected	ug/L	0.5	7	EPA 524.2	00:13	01/12/2015
2,2-Dichloropropane	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
1,2-Dichloropropane	Not detected	ug/L	0.5	5	EPA 524.2	00:13	01/12/2015
1,3-Dichloropropane	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
1,1-Dichloropropene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
Ethylbenzene	Not detected	ug/L	0.5	700	EPA 524.2	00:13	01/12/2015
Hexachlorobutadiene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
Isopropylbenzene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
4-Isopropyltoluene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
Methylene chloride	Not detected	ug/L	0.5	5	EPA 524.2	00:13	01/12/2015
Methyl(tert)butyl ether(MTBE)	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
Naphthalene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
n-Butylbenzene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
n-Propylbenzene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
sec-Butylbenzene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
Styrene	Not detected	ug/L	0.5	100	EPA 524.2	00:13	01/12/2015
tert-Butylbenzene	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	00:13	01/12/2015
Tetrachloroethene	Not detected	ug/L	0.5	5	EPA 524.2	00:13	01/12/2015
Toluene	Not detected	ug/L	0.5	1000	EPA 524.2	00:13	01/12/2015
Total TTHM (Drinking Water)	72	ug/L	2.0		EPA 524.2	00:13	01/12/2015



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 Report Date: 1/15/2015

Monarch Environmental, Inc.
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BA Project # **33034**
 BA Sample ID **CA09832**

Project Name: **MCN0115.03**
 Project Number: **MCN0115.03**
 Sample ID: **#11 Housing Bsmt.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Arsenic (Drinking Water)	Not detected	ug/L	1	10	EPA 200.8 rev5.4	18:23	01/12/2015
Total Copper (Drinking Water)	Not detected	ug/L	20	1300	EPA 200.8 rev5.4	18:23	01/12/2015
Total Lead (Drinking Water)	4	ug/L	1	15	EPA 200.8 rev5.4	18:23	01/12/2015
Total Sodium (Drinking Water)	16000	ug/L	1000		EPA 200.7	11:07	01/14/2015
Total Metal Analysis							
Hardness by Calculation	180000	ug/L	5000		EPA 200.8 rev5.4	18:23	01/12/2015
Total Iron	1300	ug/L	20		EPA 200.8 rev5.4	18:23	01/12/2015
Inorganic Analysis							
Chloride	85000	ug/L	1000		EPA 300.0R2.1	19:21	01/09/2015
Total Alkalinity	66000	ug/L	5000		SM2320B	11:03	01/15/2015
Drinking Water Inorganic Analysis							
Fluoride (Drinking Water)	200	ug/L	100	4000	EPA 300.0R2.1	19:21	01/09/2015
Nitrate (Drinking Water)	1100	ug/L	50	10000	EPA 300.0R2.1	19:21	01/09/2015
Nitrite (Drinking Water)	Not detected	ug/L	50	1000	EPA 300.0R2.1	19:21	01/09/2015
pH (Drinking Water)	7.1	S.I.			SM4500 H+B	16:00	01/09/2015
Sulfate (Drinking Water)	37000	ug/L	5000		EPA 300.0R2.1	19:21	01/09/2015
Drinking Water Microbiological Analysis							
E. coli(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Total Coliform(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Drinking Water Volatile Analysis							
Benzene	Not detected	ug/L	0.5	5	EPA 524.2	00:32	01/12/2015
Bromobenzene	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015
Bromochloromethane	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015
Bromodichloromethane	10	ug/L	0.5	80	EPA 524.2	00:32	01/12/2015
Bromoform	2	ug/L	0.5	80	EPA 524.2	00:32	01/12/2015
Bromomethane	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015
Carbon tetrachloride	Not detected	ug/L	0.5	5	EPA 524.2	00:32	01/12/2015
Chlorobenzene	Not detected	ug/L	0.5	100	EPA 524.2	00:32	01/12/2015
Chloroethane	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015
Chloroform	7	ug/L	0.5	80	EPA 524.2	00:32	01/12/2015
Chloromethane	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015
4-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015



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BA Project # **33034**
BA Sample ID **CA09832**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#11 Housing Bsmt.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
trans-1,2-Dichloroethene	Not detected	ug/L	0.5	100	EPA 524.2	00:32	01/12/2015
trans-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015
1,2,4-Trichlorobenzene	Not detected	ug/L	0.5		EPA 524.2	00:32	01/12/2015
1,2,3-Trichlorobenzene	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015
1,1,2-Trichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	00:32	01/12/2015
1,1,1-Trichloroethane	Not detected	ug/L	0.5	200	EPA 524.2	00:32	01/12/2015
Trichloroethene	Not detected	ug/L	0.5	5	EPA 524.2	00:32	01/12/2015
Trichlorofluoromethane	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015
1,2,3-Trichloropropane	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015
1,3,5-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015
1,2,4-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	00:32	01/12/2015
Vinyl chloride	Not detected	ug/L	0.5	2	EPA 524.2	00:32	01/12/2015
Xylenes(total)	Not detected	ug/L	1.5	10000	EPA 524.2	00:32	01/12/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Monarch Environmental, Inc.
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BA Project # **33034**
 BA Sample ID **CA09833**

Project Name: **MCN0115.03**
 Project Number: **MCN0115.03**
 Sample ID: **#12 Housing 1st Flr.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
cis-1,2-Dichloroethene	Not detected	ug/L	0.5	70	EPA 524.2	00:52	01/12/2015
cis-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
Dibromochloromethane	6	ug/L	0.5	80	EPA 524.2	00:52	01/12/2015
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/L	0.5		EPA 524.2	00:52	01/12/2015
Dibromomethane	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
1,2-Dichlorobenzene	Not detected	ug/L	0.5	600	EPA 524.2	00:52	01/12/2015
1,3-Dichlorobenzene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
1,4-Dichlorobenzene	Not detected	ug/L	0.5	75	EPA 524.2	00:52	01/12/2015
Dichlorodifluoromethane	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
1,1-Dichloroethane	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
1,2-Dichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	00:52	01/12/2015
1,1-Dichloroethene	Not detected	ug/L	0.5	7	EPA 524.2	00:52	01/12/2015
2,2-Dichloropropane	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
1,2-Dichloropropane	Not detected	ug/L	0.5	5	EPA 524.2	00:52	01/12/2015
1,3-Dichloropropane	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
1,1-Dichloropropene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
Ethylbenzene	Not detected	ug/L	0.5	700	EPA 524.2	00:52	01/12/2015
Hexachlorobutadiene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
Isopropylbenzene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
4-Isopropyltoluene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
Methylene chloride	Not detected	ug/L	0.5	5	EPA 524.2	00:52	01/12/2015
Methyl(tert)butyl ether(MTBE)	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
Naphthalene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
n-Butylbenzene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
n-Propylbenzene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
sec-Butylbenzene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
Styrene	Not detected	ug/L	0.5	100	EPA 524.2	00:52	01/12/2015
tert-Butylbenzene	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	00:52	01/12/2015
Tetrachloroethene	Not detected	ug/L	0.5	5	EPA 524.2	00:52	01/12/2015
Toluene	Not detected	ug/L	0.5	1000	EPA 524.2	00:52	01/12/2015
Total TTHM (Drinking Water)	51	ug/L	2.0		EPA 524.2	00:52	01/12/2015



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Monarch Environmental, Inc.
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BA Project # **33034**
 BA Sample ID **CA09834**

Project Name: **MCN0115.03**
 Project Number: **MCN0115.03**
 Sample ID: **#13 Rec. Ctr. UL**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Arsenic (Drinking Water)	Not detected	ug/L	1	10	EPA 200.8 rev5.4	18:52	01/12/2015
Total Copper (Drinking Water)	60	ug/L	20	1300	EPA 200.8 rev5.4	18:52	01/12/2015
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	18:52	01/12/2015
Total Sodium (Drinking Water)	16000	ug/L	1000		EPA 200.7	11:11	01/14/2015
Total Metal Analysis							
Hardness by Calculation	220000	ug/L	5000		EPA 200.8 rev5.4	18:52	01/12/2015
Total Iron	280	ug/L	20		EPA 200.8 rev5.4	18:52	01/12/2015
Inorganic Analysis							
Chloride	81000	ug/L	1000		EPA 300.0R2.1	21:31	01/09/2015
Total Alkalinity	100000	ug/L	5000		SM2320B	11:14	01/15/2015
Drinking Water Inorganic Analysis							
Fluoride (Drinking Water)	300	ug/L	100	4000	EPA 300.0R2.1	21:31	01/09/2015
Nitrate (Drinking Water)	1000	ug/L	50	10000	EPA 300.0R2.1	21:31	01/09/2015
Nitrite (Drinking Water)	Not detected	ug/L	50	1000	EPA 300.0R2.1	21:31	01/09/2015
pH (Drinking Water)	7.2	S.I.			SM4500 H+B	16:12	01/09/2015
Sulfate (Drinking Water)	35000	ug/L	5000		EPA 300.0R2.1	21:31	01/09/2015
Drinking Water Microbiological Analysis							
E. coli(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Total Coliform(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Drinking Water Volatile Analysis							
Benzene	Not detected	ug/L	0.5	5	EPA 524.2	01:11	01/12/2015
Bromobenzene	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015
Bromochloromethane	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015
Bromodichloromethane	26	ug/L	0.5	80	EPA 524.2	01:11	01/12/2015
Bromoform	3	ug/L	0.5	80	EPA 524.2	01:11	01/12/2015
Bromomethane	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015
Carbon tetrachloride	Not detected	ug/L	0.5	5	EPA 524.2	01:11	01/12/2015
Chlorobenzene	Not detected	ug/L	0.5	100	EPA 524.2	01:11	01/12/2015
Chloroethane	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015
Chloroform	26	ug/L	0.5	80	EPA 524.2	01:11	01/12/2015
Chloromethane	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015



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BA Project # **33034**
BA Sample ID **CA09834**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#13 Rec. Ctr. UL**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
trans-1,2-Dichloroethene	Not detected	ug/L	0.5	100	EPA 524.2	01:11	01/12/2015
trans-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015
1,2,4-Trichlorobenzene	Not detected	ug/L	0.5		EPA 524.2	01:11	01/12/2015
1,2,3-Trichlorobenzene	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015
1,1,2-Trichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	01:11	01/12/2015
1,1,1-Trichloroethane	Not detected	ug/L	0.5	200	EPA 524.2	01:11	01/12/2015
Trichloroethene	Not detected	ug/L	0.5	5	EPA 524.2	01:11	01/12/2015
Trichlorofluoromethane	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015
1,2,3-Trichloropropane	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015
1,2,4-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015
1,3,5-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	01:11	01/12/2015
Vinyl chloride	Not detected	ug/L	0.5	2	EPA 524.2	01:11	01/12/2015
Xylenes(total)	Not detected	ug/L	1.5	10000	EPA 524.2	01:11	01/12/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date

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1/15/15



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BA Project # **33034**

Project Name: **MCN0115.03**

BA Sample ID **CA09835**

Project Number: **MCN0115.03**

Sample ID: **#14 UCEN 3rd Flr.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
cis-1,2-Dichloroethene	Not detected	ug/L	0.5	70	EPA 524.2	01:30	01/12/2015
cis-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
Dibromochloromethane	11	ug/L	0.5	80	EPA 524.2	01:30	01/12/2015
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/L	0.5		EPA 524.2	01:30	01/12/2015
Dibromomethane	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
1,4-Dichlorobenzene	Not detected	ug/L	0.5	75	EPA 524.2	01:30	01/12/2015
1,3-Dichlorobenzene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
1,2-Dichlorobenzene	Not detected	ug/L	0.5	600	EPA 524.2	01:30	01/12/2015
Dichlorodifluoromethane	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
1,2-Dichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	01:30	01/12/2015
1,1-Dichloroethane	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
1,1-Dichloroethene	Not detected	ug/L	0.5	7	EPA 524.2	01:30	01/12/2015
1,2-Dichloropropane	Not detected	ug/L	0.5	5	EPA 524.2	01:30	01/12/2015
1,3-Dichloropropane	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
2,2-Dichloropropane	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
1,1-Dichloropropene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
Ethylbenzene	Not detected	ug/L	0.5	700	EPA 524.2	01:30	01/12/2015
Hexachlorobutadiene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
Isopropylbenzene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
4-Isopropyltoluene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
Methylene chloride	Not detected	ug/L	0.5	5	EPA 524.2	01:30	01/12/2015
Methyl(tert)butyl ether(MTBE)	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
Naphthalene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
n-Butylbenzene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
n-Propylbenzene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
sec-Butylbenzene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
Styrene	Not detected	ug/L	0.5	100	EPA 524.2	01:30	01/12/2015
tert-Butylbenzene	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	01:30	01/12/2015
Tetrachloroethene	Not detected	ug/L	0.5	5	EPA 524.2	01:30	01/12/2015
Toluene	Not detected	ug/L	0.5	1000	EPA 524.2	01:30	01/12/2015
Total TTHM (Drinking Water)	65	ug/L	2.0		EPA 524.2	01:30	01/12/2015



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Sample Date/Time: 1/9/2015 1: 13:30
 Submit Date/Time: 1/9/2015 1: 14:45
 Report Date: 1/15/2015

Monarch Environmental, Inc.
 P.O. Box 1986
 Brighton, MI 48116

BA Project # **33034**
 BA Sample ID **CA09836**

Project Name: **MCN0115.03**
 Project Number: **MCN0115.03**
 Sample ID: **#15 French Hall 2nd Flr.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Arsenic (Drinking Water)	1	ug/L	1	10	EPA 200.8 rev5.4	17:36	01/12/2015
Total Copper (Drinking Water)	Not detected	ug/L	20	1300	EPA 200.8 rev5.4	17:36	01/12/2015
Total Lead (Drinking Water)	3	ug/L	1	15	EPA 200.8 rev5.4	17:36	01/12/2015
Total Sodium (Drinking Water)	17000	ug/L	1000		EPA 200.7	11:18	01/14/2015
Total Metal Analysis							
Hardness by Calculation	200000	ug/L	5000		EPA 200.8 rev5.4	17:36	01/12/2015
Total Iron	70	ug/L	20		EPA 200.8 rev5.4	17:36	01/12/2015
Inorganic Analysis							
Chloride	83000	ug/L	1000		EPA 300.0R2.1	22:23	01/09/2015
Total Alkalinity	97000	ug/L	5000		SM2320B	11:24	01/15/2015
Drinking Water Inorganic Analysis							
Fluoride (Drinking Water)	400	ug/L	100	4000	EPA 300.0R2.1	22:23	01/09/2015
Nitrate (Drinking Water)	90	ug/L	50	10000	EPA 300.0R2.1	22:23	01/09/2015
Nitrite (Drinking Water)	Not detected	ug/L	50	1000	EPA 300.0R2.1	22:23	01/09/2015
pH (Drinking Water)	7.1	S.I.			SM4500 H+B	16:24	01/09/2015
Sulfate (Drinking Water)	37000	ug/L	5000		EPA 300.0R2.1	22:23	01/09/2015
Drinking Water Microbiological Analysis							
E. coli(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Total Coliform(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/09/2015
Drinking Water Volatile Analysis							
Benzene	Not detected	ug/L	0.5	5	EPA 524.2	01:50	01/12/2015
Bromobenzene	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015
Bromochloromethane	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015
Bromodichloromethane	Not detected	ug/L	0.5	80	EPA 524.2	01:50	01/12/2015
Bromoform	Not detected	ug/L	0.5	80	EPA 524.2	01:50	01/12/2015
Bromomethane	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015
Carbon tetrachloride	Not detected	ug/L	0.5	5	EPA 524.2	01:50	01/12/2015
Chlorobenzene	Not detected	ug/L	0.5	100	EPA 524.2	01:50	01/12/2015
Chloroethane	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015
Chloroform	Not detected	ug/L	0.5	80	EPA 524.2	01:50	01/12/2015
Chloromethane	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015



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Report Date: 1/15/2015

Monarch Environmental, Inc.
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BA Project # **33034**
BA Sample ID **CA09836**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#15 French Hall 2nd Flr.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
trans-1,2-Dichloroethene	Not detected	ug/L	0.5	100	EPA 524.2	01:50	01/12/2015
trans-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015
1,2,3-Trichlorobenzene	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015
1,2,4-Trichlorobenzene	Not detected	ug/L	0.5		EPA 524.2	01:50	01/12/2015
1,1,1-Trichloroethane	Not detected	ug/L	0.5	200	EPA 524.2	01:50	01/12/2015
1,1,2-Trichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	01:50	01/12/2015
Trichloroethene	Not detected	ug/L	0.5	5	EPA 524.2	01:50	01/12/2015
Trichlorofluoromethane	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015
1,2,3-Trichloropropane	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015
1,2,4-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015
1,3,5-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	01:50	01/12/2015
Vinyl chloride	Not detected	ug/L	0.5	2	EPA 524.2	01:50	01/12/2015
Xylenes(total)	Not detected	ug/L	1.5	10000	EPA 524.2	01:50	01/12/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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1/15/10



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Monarch Environmental, Inc.
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BA Project # **33166**
 BA Sample ID **CB00300**

Project Name: **MCN0115.03**
 Project Number: **MCN0115.03**
 Sample ID: **#1 Ross Bsmt. Lndry.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Arsenic (Drinking Water)	Not detected	ug/L	1	10	EPA 200.8 rev5.4	14:05	01/21/2015
Total Copper (Drinking Water)	40	ug/L	20	1300	EPA 200.8 rev5.4	14:05	01/21/2015
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	14:05	01/21/2015
Total Sodium (Drinking Water)	21000	ug/L	1000		EPA 200.7	12:01	01/21/2015
Total Metal Analysis							
Hardness by Calculation	180000	ug/L	5000		EPA 200.8 rev5.4	14:05	01/21/2015
Total Iron	80	ug/L	20		EPA 200.8 rev5.4	14:05	01/21/2015
Inorganic Analysis							
Chloride	82000	ug/L	1000		EPA 300.0R2.1	17:39	01/20/2015
Total Alkalinity	81000	ug/L	5000		SM2320B	10:56	01/22/2015
Drinking Water Inorganic Analysis							
Fluoride (Drinking Water)	100	ug/L	100	4000	EPA 300.0R2.1	17:39	01/20/2015
Nitrate (Drinking Water)	1600	ug/L	50	10000	EPA 300.0R2.1	17:39	01/20/2015
Nitrite (Drinking Water)	Not detected	ug/L	50	1000	EPA 300.0R2.1	17:39	01/20/2015
pH (Drinking Water)	7.5	S.I.			SM4500 H+B	16:00	01/20/2015
Sulfate (Drinking Water)	38000	ug/L	5000		EPA 300.0R2.1	17:39	01/20/2015
Drinking Water Microbiological Analysis							
E. coli(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/20/2015
Total Coliform(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/20/2015
Drinking Water Volatile Analysis							
Benzene	Not detected	ug/L	0.5	5	EPA 524.2	13:04	01/21/2015
Bromobenzene	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015
Bromochloromethane	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015
Bromodichloromethane	9.1	ug/L	0.5	80	EPA 524.2	13:04	01/21/2015
Bromoform	1.2	ug/L	0.5	80	EPA 524.2	13:04	01/21/2015
Bromomethane	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015
Carbon tetrachloride	Not detected	ug/L	0.5	5	EPA 524.2	13:04	01/21/2015
Chlorobenzene	Not detected	ug/L	0.5	100	EPA 524.2	13:04	01/21/2015
Chloroethane	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015
Chloroform	7.3	ug/L	0.5	80	EPA 524.2	13:04	01/21/2015
Chloromethane	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015



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BA Project # **33166**
BA Sample ID **CB00300**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#1 Ross Bsmt. Lndry.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
trans-1,2-Dichloroethene	Not detected	ug/L	0.5	100	EPA 524.2	13:04	01/21/2015
trans-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015
1,2,4-Trichlorobenzene	Not detected	ug/L	0.5		EPA 524.2	13:04	01/21/2015
1,2,3-Trichlorobenzene	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015
1,1,2-Trichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	13:04	01/21/2015
1,1,1-Trichloroethane	Not detected	ug/L	0.5	200	EPA 524.2	13:04	01/21/2015
Trichloroethene	Not detected	ug/L	0.5	5	EPA 524.2	13:04	01/21/2015
Trichlorofluoromethane	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015
1,2,3-Trichloropropane	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015
1,3,5-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015
1,2,4-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	13:04	01/21/2015
Vinyl chloride	Not detected	ug/L	0.5	2	EPA 524.2	13:04	01/21/2015
Xylenes(total)	Not detected	ug/L	1.5	10000	EPA 524.2	13:04	01/21/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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W. Wood
1/22/15



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Report Date: 1/22/2015

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BA Project # **33166**
BA Sample ID **CB00301**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#2 Ross Kitchen Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
2-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
cis-1,2-Dichloroethene	Not detected	ug/L	0.5	70	EPA 524.2	13:24	01/21/2015
cis-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
Dibromochloromethane	6.6	ug/L	0.5	80	EPA 524.2	13:24	01/21/2015
1,2-Dibromoethane(Ethylene Dibromide)	Not detected	ug/L	0.5		EPA 524.2	13:24	01/21/2015
Dibromomethane	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
1,2-Dichlorobenzene	Not detected	ug/L	0.5	600	EPA 524.2	13:24	01/21/2015
1,3-Dichlorobenzene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
1,4-Dichlorobenzene	Not detected	ug/L	0.5	75	EPA 524.2	13:24	01/21/2015
Dichlorodifluoromethane	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
1,1-Dichloroethane	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
1,2-Dichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	13:24	01/21/2015
1,1-Dichloroethene	Not detected	ug/L	0.5	7	EPA 524.2	13:24	01/21/2015
1,3-Dichloropropane	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
1,2-Dichloropropane	Not detected	ug/L	0.5	5	EPA 524.2	13:24	01/21/2015
2,2-Dichloropropane	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
1,1-Dichloropropene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
Ethylbenzene	Not detected	ug/L	0.5	700	EPA 524.2	13:24	01/21/2015
Hexachlorobutadiene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
Isopropylbenzene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
4-Isopropyltoluene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
Methylene chloride	Not detected	ug/L	0.5	5	EPA 524.2	13:24	01/21/2015
Methyl(tert)butyl ether(MTBE)	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
Naphthalene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
n-Butylbenzene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
n-Propylbenzene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
sec-Butylbenzene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
Styrene	Not detected	ug/L	0.5	100	EPA 524.2	13:24	01/21/2015
tert-Butylbenzene	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	13:24	01/21/2015
Tetrachloroethene	Not detected	ug/L	0.5	5	EPA 524.2	13:24	01/21/2015
Toluene	Not detected	ug/L	0.5	1000	EPA 524.2	13:24	01/21/2015
Total TTHM (Drinking Water)	24	ug/L	2.0		EPA 524.2	13:24	01/21/2015



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 Report Date: 1/22/2015

Monarch Environmental, Inc.
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BA Project # **33166**
 BA Sample ID **CB00302**

Project Name: **MCN0115.03**
 Project Number: **MCN0115.03**
 Sample ID: **#3 Ross 2nd Bath**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Arsenic (Drinking Water)	Not detected	ug/L	1	10	EPA 200.8 rev5.4	12:49	01/21/2015
Total Copper (Drinking Water)	50	ug/L	20	1300	EPA 200.8 rev5.4	12:49	01/21/2015
Total Lead (Drinking Water)	4	ug/L	1	15	EPA 200.8 rev5.4	12:49	01/21/2015
Total Sodium (Drinking Water)	20000	ug/L	1000		EPA 200.7	12:06	01/21/2015
Total Metal Analysis							
Hardness by Calculation	190000	ug/L	5000		EPA 200.8 rev5.4	12:49	01/21/2015
Total Iron	180	ug/L	20		EPA 200.8 rev5.4	12:49	01/21/2015
Inorganic Analysis							
Chloride	82000	ug/L	1000		EPA 300.0R2.1	18:31	01/20/2015
Total Alkalinity	85000	ug/L	5000		SM2320B	11:07	01/22/2015
Drinking Water Inorganic Analysis							
Fluoride (Drinking Water)	Not detected	ug/L	100	4000	EPA 300.0R2.1	18:31	01/20/2015
Nitrate (Drinking Water)	1600	ug/L	50	10000	EPA 300.0R2.1	18:31	01/20/2015
Nitrite (Drinking Water)	Not detected	ug/L	50	1000	EPA 300.0R2.1	18:31	01/20/2015
pH (Drinking Water)	7.5	S.I.			SM4500 H+B	16:14	01/20/2015
Sulfate (Drinking Water)	38000	ug/L	5000		EPA 300.0R2.1	18:31	01/20/2015
Drinking Water Microbiological Analysis							
E. coli(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/20/2015
Total Coliform(Drinking Water)	Negative			0	ATP D05-0035	16:00	01/20/2015
Drinking Water Volatile Analysis							
Benzene	Not detected	ug/L	0.5	5	EPA 524.2	13:44	01/21/2015
Bromobenzene	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015
Bromochloromethane	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015
Bromodichloromethane	9.2	ug/L	0.5	80	EPA 524.2	13:44	01/21/2015
Bromoform	1.3	ug/L	0.5	80	EPA 524.2	13:44	01/21/2015
Bromomethane	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015
Carbon tetrachloride	Not detected	ug/L	0.5	5	EPA 524.2	13:44	01/21/2015
Chlorobenzene	Not detected	ug/L	0.5	100	EPA 524.2	13:44	01/21/2015
Chloroethane	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015
Chloroform	7.0	ug/L	0.5	80	EPA 524.2	13:44	01/21/2015
Chloromethane	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015
4-Chlorotoluene	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015



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BA Project # **33166**
BA Sample ID **CB00302**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#3 Ross 2nd Bath**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
trans-1,2-Dichloroethene	Not detected	ug/L	0.5	100	EPA 524.2	13:44	01/21/2015
trans-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015
1,2,4-Trichlorobenzene	Not detected	ug/L	0.5		EPA 524.2	13:44	01/21/2015
1,2,3-Trichlorobenzene	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015
1,1,2-Trichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	13:44	01/21/2015
1,1,1-Trichloroethane	Not detected	ug/L	0.5	200	EPA 524.2	13:44	01/21/2015
Trichloroethene	Not detected	ug/L	0.5	5	EPA 524.2	13:44	01/21/2015
Trichlorofluoromethane	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015
1,2,3-Trichloropropane	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015
1,3,5-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015
1,2,4-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	13:44	01/21/2015
Vinyl chloride	Not detected	ug/L	0.5	2	EPA 524.2	13:44	01/21/2015
Xylenes(total)	Not detected	ug/L	1.5	10000	EPA 524.2	13:44	01/21/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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1/22/15



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Sample Date/Time: 1/20/2015 13:40
Submit Date/Time: 1/20/2015 15:10
Report Date: 1/21/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33166**
BA Sample ID **CB00303**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **Field Blank**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Volatile Analysis							
Methyl(tert)butyl ether(MTBE)	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
Naphthalene	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
n-Butylbenzene	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
n-Propylbenzene	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
sec-Butylbenzene	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
Styrene	Not detected	ug/L	0.5	100	EPA 524.2	14:03	01/21/2015
tert-Butylbenzene	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
Tetrachloroethene	Not detected	ug/L	0.5	5	EPA 524.2	14:03	01/21/2015
Toluene	Not detected	ug/L	0.5	1000	EPA 524.2	14:03	01/21/2015
Total TTHM (Drinking Water)	Not detected	ug/L	2.0		EPA 524.2	14:03	01/21/2015
trans-1,2-Dichloroethene	Not detected	ug/L	0.5	100	EPA 524.2	14:03	01/21/2015
trans-1,3-Dichloropropene	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
1,2,4-Trichlorobenzene	Not detected	ug/L	0.5		EPA 524.2	14:03	01/21/2015
1,2,3-Trichlorobenzene	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
1,1,2-Trichloroethane	Not detected	ug/L	0.5	5	EPA 524.2	14:03	01/21/2015
1,1,1-Trichloroethane	Not detected	ug/L	0.5	200	EPA 524.2	14:03	01/21/2015
Trichloroethene	Not detected	ug/L	0.5	5	EPA 524.2	14:03	01/21/2015
Trichlorofluoromethane	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
1,2,3-Trichloropropane	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
1,3,5-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
1,2,4-Trimethylbenzene	Not detected	ug/L	1		EPA 524.2	14:03	01/21/2015
Vinyl chloride	Not detected	ug/L	0.5	2	EPA 524.2	14:03	01/21/2015
Xylenes(total)	Not detected	ug/L	1.5	10000	EPA 524.2	14:03	01/21/2015



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Report Date: 1/27/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33234**
BA Sample ID **CB00485**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **1F NBCS Ste 104**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	33	ug/L	1	15	EPA 200.8 rev5.4	14:10	01/27/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Report Date: 1/27/2015

Monarch Environmental, Inc.
P.O. Box 1986
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BA Project # **33234**
BA Sample ID **CB00486**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **1P NBCS Ste 104**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	14:15	01/27/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Submit Date/Time: 1/26/2015 : 16:30
Report Date: 1/27/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33234**
BA Sample ID **CB00488**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **2P NBCS Ste 147**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	14:44	01/27/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Report Date: 1/27/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33234**
BA Sample ID **CB00490**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **3P NBCS Ste 201**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	3	ug/L	1	15	EPA 200.8 rev5.4	14:55	01/27/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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NELAC Accredited #176507

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Submit Date/Time: 1/26/2015 16:30
Report Date: 1/27/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33234**
BA Sample ID **CB00492**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **4P NBCS Ste 233**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	18	ug/L	1	15	EPA 200.8 rev5.4	15:07	01/27/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Report Date: 1/27/2015

Monarch Environmental, Inc.
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BA Project # **33234**
BA Sample ID **CB00494**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **5P NBCS Ste 236**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	3	ug/L	1	15	EPA 200.8 rev5.4	15:18	01/27/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Report Date: 1/27/2015

Monarch Environmental, Inc.
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BA Project # **33234**
BA Sample ID **CB00496**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **6P NBCS Ste 235**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	15:30	01/27/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Report Date: 1/27/2015

Monarch Environmental, Inc.
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BA Project # **33234**
BA Sample ID **CB00498**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **7P NBCS Ste 331**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	16:37	01/27/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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BA Project # **33234**
BA Sample ID **CB00500**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **8P NBCS 3rd Hall**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	6	ug/L	1	15	EPA 200.8 rev5.4	15:58	01/27/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Sample Date/Time: 1/30/2015 06:00
Submit Date/Time: 1/30/2015 12:55
Report Date: 2/3/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33290**
BA Sample ID **CB00689**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#1F NBCS Bsm't. Men's**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	3	ug/L	1	15	EPA 200.8 rev5.4	21:27	02/02/2015
Total Metal Analysis							
Hardness by Calculation	180000	ug/L	5000		EPA 200.8 rev5.4	21:27	02/02/2015
Inorganic Analysis							
pH (paper strip)	6.5	S.I.			SW846 9041A	00:00	01/30/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Report Date: 2/3/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33290**
BA Sample ID **CB00691**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#3F NBCS Ste 147**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	9	ug/L	1	15	EPA 200.8 rev5.4	21:38	02/02/2015
Total Metal Analysis							
Hardness by Calculation	170000	ug/L	5000		EPA 200.8 rev5.4	21:38	02/02/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.L.			SW846 9041A	00:00	01/30/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Submit Date/Time: 1/30/2015 : 12:55
Report Date: 2/3/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33290**
BA Sample ID **CB00693**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#5F NBCS Ste 233**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	390	ug/L	1	15	EPA 200.8 rev5.4	22:01	02/02/2015
Total Metal Analysis							
Hardness by Calculation	290000	ug/L	5000		EPA 200.8 rev5.4	22:01	02/02/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	00:00	01/30/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date _____

U. Wood
2/3/15



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Report Date: 2/3/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33290**
BA Sample ID **CB00695**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#7F NBCS Ste 236**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	10	ug/L	1	15	EPA 200.8 rev5.4	22:13	02/02/2015
Total Metal Analysis							
Hardness by Calculation	180000	ug/L	5000		EPA 200.8 rev5.4	22:13	02/02/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	00:00	01/30/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Report Date: 2/3/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33290**
BA Sample ID **CB00697**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **#9F NBC Hall DF West**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	44	ug/L	1	15	EPA 200.8 rev5.4	22:24	02/02/2015
Total Metal Analysis							
Hardness by Calculation	170000	ug/L	5000		EPA 200.8 rev5.4	22:24	02/02/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	00:00	01/30/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Submit Date/Time: 2/11/2015 10:00
Report Date: 2/13/2015

Monarch Environmental, Inc.
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BA Project # **33458**
BA Sample ID **CB01143**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **1F NBCS 2nd Flr. Womens**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	130	ug/L	1	15	EPA 200.8 rev5.4	16:23	02/11/2015
Total Metal Analysis							
Hardness by Calculation	200000	ug/L	5000		EPA 200.8 rev5.4	16:23	02/11/2015
Inorganic Analysis							
pH (paper strip)	6.9	S.I.			SW846 9041A	06:30	02/11/2015


RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Report Date: 2/13/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33458**
BA Sample ID **CB01144**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **2F NBCS 3rd Flr. Womens**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	16:29	02/11/2015
Total Metal Analysis							
Hardness by Calculation	190000	ug/L	5000		EPA 200.8 rev5.4	16:29	02/11/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	06:30	02/11/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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2/13/15



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Report Date: 2/13/2015

Monarch Environmental, Inc.
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Brighton, MI 48116

BA Project # **33458**
BA Sample ID **CB01146**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **4F NBCN Ballroom Kitchen**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	16:40	02/11/2015
Total Metal Analysis							
Hardness by Calculation	190000	ug/L	5000		EPA 200.8 rev5.4	16:40	02/11/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	06:30	02/11/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

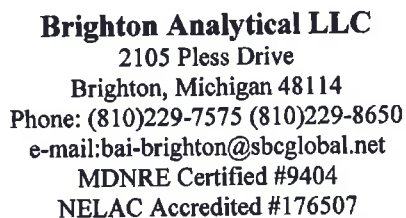
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Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **8F NBCN 5th Drink. Ftn. Restroom**

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Date 7/21/13



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Report Date: 2/13/2015

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BA Project # **33458**
BA Sample ID **CB01152**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **10F NBCN 5th Finance Kitchen**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	20	ug/L	1	15	EPA 200.8 rev5.4	15:27	02/11/2015
Total Metal Analysis							
Hardness by Calculation	180000	ug/L	5000		EPA 200.8 rev5.4	15:27	02/11/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	07:00	02/11/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Phone: (810)229-7575 (810)229-8650
e-mail: bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 2/11/2015 07:15
Submit Date/Time: 2/11/2015 10:00
Report Date: 2/13/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33458**
BA Sample ID **CB01154**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **12F NBCN 8th ELP Kitchen**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	360	ug/L	1	15	EPA 200.8 rev5.4	17:38	02/11/2015
Total Metal Analysis							
Hardness by Calculation	180000	ug/L	5000		EPA 200.8 rev5.4	17:38	02/11/2015
Inorganic Analysis							
pH (paper strip)	6.8	S.I.			SW846 9041A	07:15	02/11/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Sample Date/Time: 2/11/2015 : 07:15
Submit Date/Time: 2/11/2015 : 10:00
Report Date: 2/13/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33458**
BA Sample ID **CB01156**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **14F NBCN 9th FTS Kitchen**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	17:50	02/11/2015
Total Metal Analysis							
Hardness by Calculation	180000	ug/L	5000		EPA 200.8 rev5.4	17:50	02/11/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	07:15	02/11/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Sample Date/Time: 2/11/2015 07:30
Submit Date/Time: 2/11/2015 10:00
Report Date: 2/13/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33458**
BA Sample ID **CB01158**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **16F NBCN 10th Flr. Ste.1001 Kitchen**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	46	ug/L	1	15	EPA 200.8 rev5.4	18:02	02/11/2015
Total Metal Analysis							
Hardness by Calculation	180000	ug/L	5000		EPA 200.8 rev5.4	18:02	02/11/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	07:30	02/11/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Sample Date/Time: 2/11/2015 : 07:45
Submit Date/Time: 2/11/2015 : 10:00
Report Date: 2/13/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33458**
BA Sample ID **CB01160**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **18F NBCN 4th Ste 400 East**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	170	ug/L	1	15	EPA 200.8 rev5.4	18:13	02/11/2015
Total Metal Analysis							
Hardness by Calculation	180000	ug/L	5000		EPA 200.8 rev5.4	18:13	02/11/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	07:45	02/11/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Submit Date/Time: 2/20/2015 09:00
Report Date: 2/24/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33559**
BA Sample ID **CB01484**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **1FNBCN Bsmt Drk Ftn.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	19	ug/L	1	15	EPA 200.8 rev5.4	14:25	02/23/2015
Total Metal Analysis							
Hardness by Calculation	200000	ug/L	5000		EPA 200.8 rev5.4	14:25	02/23/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	06:00	02/20/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Submit Date/Time: 2/20/2015 : 09:00
Report Date: 2/24/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33559**
BA Sample ID **CB01485**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **2FNBCN Ballroom Kitchen**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	14:31	02/23/2015
Total Metal Analysis							
Hardness by Calculation	210000	ug/L	5000		EPA 200.8 rev5.4	14:31	02/23/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	06:00	02/20/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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NELAC Accredited #176507

Sample Date/Time: 2/20/2015 06:00
Submit Date/Time: 2/20/2015 09:00
Report Date: 2/24/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33559**
BA Sample ID **CB01487**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **4FNBCN 3rd 301 Kitchen**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	5	ug/L	1	15	EPA 200.8 rev5.4	14:43	02/23/2015
Total Metal Analysis							
Hardness by Calculation	210000	ug/L	5000		EPA 200.8 rev5.4	14:43	02/23/2015
Inorganic Analysis							
pH (paper strip)	6.7	S.I.			SW846 9041A	06:00	02/20/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

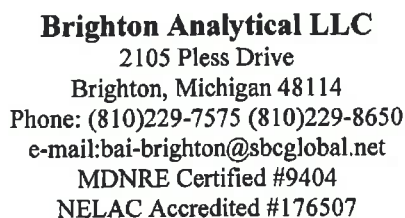
MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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P.O. Box 1986
Brighton, MI 48116

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **6FNBCN 4th East Wall Kitchen**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	110	ug/L	1	15	EPA 200.8 rev5.4	14:54	02/23/2015
Total Metal Analysis							
Hardness by Calculation	210000	ug/L	5000		EPA 200.8 rev5.4	14:54	02/23/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.L			SW846 9041A	06:15	02/20/2015

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Sample Date/Time: 2/20/2015 06:15
Submit Date/Time: 2/20/2015 09:00
Report Date: 2/24/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33559**

BA Sample ID **CB01491**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **8FNBCN 5th Drk Ftn Restroom**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	15:18	02/23/2015
Total Metal Analysis							
Hardness by Calculation	210000	ug/L	5000		EPA 200.8 rev5.4	15:18	02/23/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	06:15	02/20/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Submit Date/Time: 2/20/2015 09:00
Report Date: 2/24/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33559**
BA Sample ID **CB01493**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **10FNBCN 5th Financial DW Filter**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	15:25	02/23/2015
Total Metal Analysis							
Hardness by Calculation	160000	ug/L	5000		EPA 200.8 rev5.4	15:25	02/23/2015
Inorganic Analysis							
pH (paper strip)	6.7	S.I.			SW846 9041A	06:30	02/20/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Submit Date/Time: 2/20/2015 09:00
Report Date: 2/24/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33559**
BA Sample ID **CB01495**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **12FNBCN 5th Womans Rstrm**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	8	ug/L	1	15	EPA 200.8 rev5.4	15:33	02/23/2015
Total Metal Analysis							
Hardness by Calculation	210000	ug/L	5000		EPA 200.8 rev5.4	15:33	02/23/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	06:30	02/20/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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NELAC Accredited #176507

Sample Date/Time: 2/20/2015 06:45
Submit Date/Time: 2/20/2015 09:00
Report Date: 2/24/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33559**

Project Name: **MCN0115.03**

BA Sample ID **CB01499**

Project Number: **MCN0115.03**

Sample ID: **16FNBCN 9th Drk Ftn Restr**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	16:04	02/23/2015
Total Metal Analysis							
Hardness by Calculation	200000	ug/L	5000		EPA 200.8 rev5.4	16:04	02/23/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	06:45	02/20/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Sample Date/Time: 2/20/2015 07:00
Submit Date/Time: 2/20/2015 09:00
Report Date: 2/24/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33559**
BA Sample ID **CB01501**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **18FNBCN 10th Drk Ftn Restrnm**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	16:16	02/23/2015
Total Metal Analysis							
Hardness by Calculation	200000	ug/L	5000		EPA 200.8 rev5.4	16:16	02/23/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	07:00	02/20/2015

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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NELAC Accredited #176507

Sample Date/Time: 2/20/2015 07:15
Submit Date/Time: 2/20/2015 09:00
Report Date: 2/24/2015

Monarch Environmental, Inc.
P.O. Box 1986
Brighton, MI 48116

BA Project # **33559**
BA Sample ID **CB01503**

Project Name: **MCN0115.03**
Project Number: **MCN0115.03**
Sample ID: **20FNBCN 10th Women Rstrm**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	3	ug/L	1	15	EPA 200.8 rev5.4	18:28	02/23/2015
Total Metal Analysis							
Hardness by Calculation	200000	ug/L	5000		EPA 200.8 rev5.4	18:28	02/23/2015
Inorganic Analysis							
pH (paper strip)	7.0	S.I.			SW846 9041A	07:00	02/20/2015

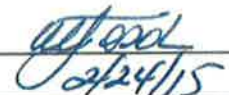
RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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**H-O-H Water
Technology, Inc.**
500 S. Vermont St.
Palatine, IL 60067

847/358-7400
Fax: 847/358-7082

LABORATORY REPORT - WATER ANALYSIS

Regarding: University of Michigan-Flint
Location: 303 E. Kearsley Street
Flint, MI

Customer No.: 1000747
Report No.: 43498
Report Date: 1/22/15
Login Date: 1/20/15
Sample Date: 1/15/15

			CEP Building City Water		North Bank Center City Water		Pavillion City Water		White Building City Water			
			Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble
W a t e r	1. Alkalinity ("P")	as CaCO ₃	0		0		0		0			
	2. Alkalinity ("M")	as CaCO ₃	66		80		76		72			
	3. Alkalinity ("OH") (calculated)	as CaCO ₃										
	4. Free Mineral Acidity	as CaCO ₃										
	5. Chemical Oxygen Demand (C.O.D.)											
	6. Chloroform Extractables											
	7. Dissolved Solids		342		360		350		348			
	8. Hardness (Calcium)	as CaCO ₃	105		116		112		109			
	9. Hardness (Magnesium)	as CaCO ₃	61		67		68		66			
	10. Hardness (Total)	as CaCO ₃	167		183		180		174			
P a r a m e t e r s	11. pH		7.8		7.8		7.7		7.7			
	12. Refractive Index											
	13. Specific Conductance	umhos	480		508		494		486			
	14. Specific Gravity	g/ml										
	15. Suspended Solids			Negligible		Negligible		Negligible		Negligible		
	16. Total Inorganic Carbon			26.3		30.7		27.7		27.0		
	17. Total Organic Carbon			6.1		5.4		5.8		6.0		
	18. Aluminum	as Al	0.00		0.00		0.00		0.00			
	19. Barium	as Ba	0.01		0.01		0.01		0.01			
	20. Calcium	as Ca	42.1		46.4		44.7		43.5			
C a t i o n s	21. Chromium	as Cr	0.00		0.00		0.00		0.00			
	22. Copper	as Cu	0.00		0.00		0.00		0.00			
	23. Iron	as Fe	0.00		0.00		0.00		0.00			
	24. Lead	as Pb	0.000		0.000		0.000		0.000			
	25. Lithium	as Li	0.00		0.00		0.00		0.00			
	26. Magnesium	as Mg	14.9		16.3		16.6		15.9			
	27. Manganese	as Mn	0.00		0.00		0.00		0.00			
	28. Nickel	as Ni	0.00		0.00		0.00		0.00			
	29. Potassium	as K	4.35		4.05		4.28		4.23			
	30. Silver	as Ag	0.00		0.00		0.00		0.00			
A n i o n s	31. Sodium	as Na	19.1		20.8		19.9		19.4			
	32. Strontium	as Sr	0.14		0.15		0.14		0.14			
	33. Zinc	as Zn	0.02		0.01		0.00		0.00			
	34. Total Cation Millequivalents											
	35. Acetate	as C ₂ H ₃ O ₂	0.35		0.15		0.34		0.34			
	36. Bromide	as Br	0.00		0.00		0.00		0.00			
	37. Chloride	as Cl	90.4		88.6		94.6		90.6			
	38. Chlorate	as ClO ₃	0.00		0.00		0.00		0.00			
	39. Chromate	as CrO ₄										
	40. Fluoride	as F	0.14		0.26		0.19		0.18			
A n i o n s	41. Formate	as CHO ₂	0.28		0.12		0.27		0.29			
	42. Glycolate	as C ₂ H ₃ O ₃	0.04		0.02		0.03		0.04			
	43. Molybdate	as MoO ₄	0.00		0.00		0.00		0.00			
	44. Nitrate	as NO ₃	5.21		4.02		5.10		4.92			
	45. Nitrite	as NO ₂	0.00		0.00		0.00		0.00			
	46. Oxalate	as C ₂ O ₄	0.00		0.00		0.00		0.00			
	47. Phosphate (ortho)	as PO ₄	0.00		0.00		0.00		0.00			
	48. Phosphorus (total)	as P	0.02		0.04		0.02		0.02			
	49. Propionate	as C ₃ H ₅ O ₂	0.00		0.00		0.00		0.00			
	50. Sulfamate	as NH ₂ SO ₃	0.00		0.00		0.00		0.00			
A n i o n s	51. Sulfate	as SO ₄	41.6		40.2		42.6		41.3			
	52. Sulfur (total)	as S	14.3		14.1		14.7		14.5			
	53. Total Anion Millequivalents											
	54. Ammonia	as NH ₃										
	55. Benzotriazole	as C ₆ H ₅ N ₃										
	56. Boron	as B	0.03		0.01		0.01		0.01			
	57. Silica	as SiO ₂	5.39		4.98		5.45		5.35			
	58. Sodium Nitrite	as NaNO ₂										
	59. Sodium Sulfite	as Na ₂ SO ₃										
	60. Tolytriazole	as C ₇ H ₅ N ₃										

Sample U1 All data except pH in parts per million or as indicated

Continued on reverse side.

LABORATORY REPORT - WATER ANALYSIS

H-O-H Water
Technology, Inc.
500 S. Vermont St.
Palatine, IL 60067

847/358-7400
Fax: 847/358-7082

Regarding: University of Michigan-Flint
Location: 303 E. Kearsley Street
Flint, MI

Customer No.: 1000747

Report No.: 43498

Report Date: 1/22/15

Analysis Date: 1/20/15

Sample Date: 1/15/15

			CEP Building City Water		North Bank Center City Water		Pavillion City Water		White Building City Water			
			Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble
C o m p o u n d s	61.	Bromate as BrO ₃										
	62.	Chlorite as ClO ₂										
	63.	Cyclohexylamine* as C ₆ H ₁₃ N										
	64.	Diethylamine* as C ₄ H ₁₁ N										
	65.	Diethylaminoethanol* as C ₆ H ₁₅ NO										
	66.	Ethylamine* as C ₂ H ₇ N										
	67.	Morpholine* as C ₄ H ₉ NO										
	68.	Diethylene Glycol* % by weight										
	69.	Ethylene Glycol* % by weight										
	70.	Propylene Glycol* % by weight										
M i c r o b i o l o g i c a l	71.	Aerobic Plate Count CFU/ml										
	72.	Anaerobic Plate Count CFU/ml										
	73.	Fecal Coliform CFU/100 ml										
	74.	Iron Bacteria										
	75.	Mold CFU/ml										
	76.	Nitrate Reducers CFU/ml										
	77.	Slime Formers CFU/ml										
	78.	Sulfate Reducers CFU/ml										
	79.	Total Coliform CFU/100 ml										
	80.	Yeast CFU/ml										
	81.	Residue by Evaporation										
	82.	Volatile Solids										
	83.	System Capacity gal.										
	84.	P.T.S.A. as ppb										



H-O-H Water
Technology, Inc.
500 S. Vermont St.
Palatine, IL 60067

847/358-7400
Fax: 847/358-7082

LABORATORY REPORT - WATER ANALYSIS

Regarding: University of Michigan-Flint
Location: 602 Mill Street
Flint, MI

Customer No.: 1000747

Report No.: 43564

Report Date: 1/29/15

Login Date: 1/16/15

Sample Date: 1/15/15

			CIP Domestic Inlet		Pavillion Domestic Inlet		White Building Domestic Inlet		North Bank Domestic Inlet			
			Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble
W a t e r	1.	Alkalinity ("P") as CaCO_3										
	2.	Alkalinity ("M") as CaCO_3										
	3.	Alkalinity ("OH") (calculated) as CaCO_3										
	4.	Free Mineral Acidity as CaCO_3										
	5.	Chemical Oxygen Demand (C.O.D.)										
	6.	Chloroform Extractables										
	7.	Dissolved Solids										
	8.	Hardness (Calcium) as CaCO_3										
	9.	Hardness (Magnesium) as CaCO_3										
	10.	Hardness (Total) as CaCO_3										
	11.	pH										
	12.	Refractive Index										
	13.	Specific Conductance μmhos										
	14.	Specific Gravity g/ml										
	15.	Suspended Solids										
	16.	Total Inorganic Carbon										
C a t i o n s	17.	Total Organic Carbon										
	18.	Aluminum as Al										
	19.	Barium as Ba										
	20.	Calcium as Ca										
	21.	Chromium as Cr										
	22.	Copper as Cu										
	23.	Iron as Fe										
	24.	Lead as Pb										
	25.	Lithium as Li										
	26.	Magnesium as Mg										
	27.	Manganese as Mn										
	28.	Nickel as Ni										
	29.	Potassium as K										
	30.	Silver as Ag										
	31.	Sodium as Na										
	32.	Strontium as Sr										
	33.	Zinc as Zn										
A n i o n s	34.	Total Cation Miliequivalents										
	35.	Acetate as $\text{C}_2\text{H}_3\text{O}_2$										
	36.	Bromide as Br										
	37.	Chloride as Cl										
	38.	Chlorate as ClO_3										
	39.	Chromate as CrO_4										
	40.	Fluoride as F										
	41.	Formate as CHO_2										
	42.	Glycolate as $\text{C}_2\text{H}_3\text{O}_3$										
	43.	Molybdate as MoO_4										
	44.	Nitrate as NO_3										
	45.	Nitrite as NO_2										
	46.	Oxalate as C_2O_4										
	47.	Phosphate (ortho) as PO_4										
	48.	Phosphorus (total) as P										
	49.	Propionate as $\text{C}_3\text{H}_5\text{O}_2$										
	50.	Sulfamate as NH_2SO_3										
	51.	Sulfate as SO_4										
	52.	Sulfur (total) as S										
	53.	Total Anion Miliequivalents										
	54.	Ammonia as NH_3										
	55.	Benzotriazole as $\text{C}_6\text{H}_5\text{N}_3$										
	56.	Boron as B										
	57.	Silica as SiO_2										
	58.	Sodium Nitrite as NaNO_2										
	59.	Sodium Sulfite as Na_2SO_3										
	60.	Tolytriazole as $\text{C}_7\text{H}_5\text{N}_3$										

All data except pH in parts per million or as indicated

Continued on reverse side.

Customer No.: 1000747

Report No.:	43564
Report Date:	1/29/15
Analysis Date:	1/16/15
Sample Date:	1/15/15

CIP Domestic Inlet		Pavillion Domestic Inlet		White Building Domestic Inlet		North Bank Domestic Inlet			
Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble

[illegible]

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260



Laboratory Results

Client: H-O-H Chemicals, Inc.

Project: 64658-18- 21

Client Sample ID: 64658-18 CEP Inlet U of M

Lab ID: 1501970-001

Date Received: 1/19/2015 13:00 PM

Report Date: January 29, 2015

Workorder: 1501970

Matrix: Drinking Water

Collection Date: 1/15/2015 11:30 AM

Parameter	Result	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
TRIHALOMETHANES (THM)		Method: -524.2-4.1, 1995		Analyst: ks			
Chloroform	20.5	1.00		µg/L	1	1/26/2015 5:53 PM	R55674
Bromodichloromethane	10.5	1.00		µg/L	1	1/26/2015 5:53 PM	R55674
Dibromochloromethane	7.64	1.00		µg/L	1	1/26/2015 5:53 PM	R55674
Bromoform	1.59	1.00		µg/L	1	1/26/2015 5:53 PM	R55674
Total Trihalomethanes (TTHMS)	40.2	1.00		µg/L	1	1/26/2015 5:53 PM	R55674
<u>Internal Quality Control Compounds</u>							
Surr: 1,2-Dichlorobenzene-d4	94.8	70-130		%REC	1	1/26/2015 5:53 PM	R55674
Surr: 4-Bromofluorobenzene	91.6	70-130		%REC	1	1/26/2015 5:53 PM	R55674

Client Sample ID: 64658-19 U of M Pavilion Inlet

Lab ID: 1501970-002

Date Received: 1/19/2015 13:00 PM

Matrix: Drinking Water

Collection Date: 1/15/2015 12:15 PM

Parameter	Result	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
TRIHALOMETHANES (THM)		Method: -524.2-4.1, 1995		Analyst: ks			
Chloroform	21.7	1.00		µg/L	1	1/26/2015 6:24 PM	R55674
Bromodichloromethane	13.7	1.00		µg/L	1	1/26/2015 6:24 PM	R55674
Dibromochloromethane	10.1	1.00		µg/L	1	1/26/2015 6:24 PM	R55674
Bromoform	1.94	1.00		µg/L	1	1/26/2015 6:24 PM	R55674
Total Trihalomethanes (TTHMS)	47.5	1.00		µg/L	1	1/26/2015 6:24 PM	R55674
<u>Internal Quality Control Compounds</u>							
Surr: 1,2-Dichlorobenzene-d4	97.4	70-130		%REC	1	1/26/2015 6:24 PM	R55674
Surr: 4-Bromofluorobenzene	95.0	70-130		%REC	1	1/26/2015 6:24 PM	R55674

Client Sample ID: 64658-20 White Blog Inlet

Lab ID: 1501970-003

Date Received: 1/19/2015 13:00 PM

Matrix: Drinking Water

Collection Date: 1/15/2015 13:49 PM

Parameter	Result	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
TRIHALOMETHANES (THM)		Method: -524.2-4.1, 1995		Analyst: ks			
Chloroform	24.6	1.00		µg/L	1	1/26/2015 6:55 PM	R55674
Bromodichloromethane	14.4	1.00		µg/L	1	1/26/2015 6:55 PM	R55674

Rpt Ver: 1/29/2015 7:44 AM

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260



Laboratory Results

Client: H-O-H Chemicals, Inc.

Report Date: January 29, 2015

Project: 64658-18- 21

Workorder: 1501970

Client Sample ID: 64658-20 White Blog Inlet

Matrix: Drinking Water

Lab ID: 1501970-003

Date Received: 1/19/2015 13:00 PM

Collection Date: 1/15/2015 13:49 PM

Parameter	Result	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
TRIHALOMETHANES (THM)		Method: -524.2-4.1, 1995		Analyst: ks			
Dibromochloromethane	10.5	1.00		µg/L	1	1/26/2015 6:55 PM	R55674
Bromoform	2.00	1.00		µg/L	1	1/26/2015 6:55 PM	R55674
Total Trihalomethanes (TTHMS)	51.5	1.00		µg/L	1	1/26/2015 6:55 PM	R55674
<u>Internal Quality Control Compounds</u>							
Surr: 1,2-Dichlorobenzene-d4	99.6	70-130		%REC	1	1/26/2015 6:55 PM	R55674
Surr: 4-Bromofluorobenzene	97.0	70-130		%REC	1	1/26/2015 6:55 PM	R55674

Client Sample ID: 64658-21 North Bank Inlet

Matrix: Drinking Water

Lab ID: 1501970-004

Date Received: 1/19/2015 13:00 PM

Collection Date: 1/15/2015 14:49 PM

Parameter	Result	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
TRIHALOMETHANES (THM)		Method: -524.2-4.1, 1995		Analyst: ks			
Chloroform	31.5	1.00		µg/L	1	1/26/2015 7:26 PM	R55674
Bromodichloromethane	24.1	1.00		µg/L	1	1/26/2015 7:26 PM	R55674
Dibromochloromethane	18.1	1.00		µg/L	1	1/26/2015 7:26 PM	R55674
Bromoform	3.43	1.00		µg/L	1	1/26/2015 7:26 PM	R55674
Total Trihalomethanes (TTHMS)	77.1	1.00		µg/L	1	1/26/2015 7:26 PM	R55674
<u>Internal Quality Control Compounds</u>							
Surr: 1,2-Dichlorobenzene-d4	94.6	70-130		%REC	1	1/26/2015 7:26 PM	R55674
Surr: 4-Bromofluorobenzene	94.0	70-130		%REC	1	1/26/2015 7:26 PM	R55674

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260



Prep Dates

Client: H-O-H Chemicals, Inc.

Report Date: January 29,
2015

Project: 64658-18- 21

Workorder: 1501970

Sample ID	Client Sample ID	Collection Date	Prep Batch	Prep Test Name	Leachate Date	Prep Date
1501970-001A	64658-18 CEP Inlet U of M	1/15/2015 11:30 AM				
1501970-002A	64658-19 U of M Pavilion Inlet	1/15/2015 12:15 PM				
1501970-003A	64658-20 White Blog Inlet	1/15/2015 1:49 PM				
1501970-004A	64658-21 North Bank Inlet	1/15/2015 2:49 PM				

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260



Qualifier Definitions

Report Date: January 29, 2015

WorkOrder: 1501970

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- c Analyte not in SLI scope of accreditation
- C Value is below Minimum Concentration Limit
- E Estimated, detected above quantitation range
- G Refer to case narrative page for specific comments
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit (QL)
- N Tentatively identified compound
- ND Not Detected at the Reporting Limit
- P Present
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

