

**EMSL Analytical, Inc.**

2001 East 52nd St. Indianapolis, IN 46205  
 Tel/Fax: (317) 803-2997 / (317) 803-3047  
 http://www.EMSL.com / indianapolislab@emsl.com

**Order ID:** 161616927  
**Customer ID:** MONE25  
**Customer PO:** MCN0816.03  
**Project ID:**

**Attn:** Charles Wirth (Ted)  
 Monarch Environmental, Inc.  
 PO Box 1986  
 Brighton, MI 48116

**Telephone:** (810) 220-2288  
**Fax:** (810) 220-2313  
**Received Date:** 09/16/2016  
**Processed Date:** 09/16/2016  
**Analyzed Date:** 09/30/2016

**Project:** MCN0816.03

**Level 2 *Legionella* Detection - ID, Enumeration & Serotyping (1-14) of *L. pneumophila*  
 by CDC Culture Method (EMSL Method M211)**

Lab Sample ID	Client Sample ID / Sample Location	Volume Submitted (mL)	Volume Processed (mL)	Method Processed	Identification*	Final Result (CFU/mL)
161616927-0001	091516-1 NBCN	1000	1000	Concentrated	None Detected	ND
161616927-0002	091516-2 NBCN	1000	1000	Concentrated	None Detected	ND
161616927-0003	091516-3 RVRFT	1000	1000	Concentrated	<i>Legionella pneumophila</i> (sero 1)	0.1
161616927-0004	091516-4 RVRFT	1000	1000	Concentrated	<i>Legionella pneumophila</i> (sero 1)	96
161616927-0005	091516-5 RVRFT	1000	1000	Concentrated	<i>Legionella pneumophila</i> (sero 1)	16.25
161616927-0006	091516-6 FIELD BLANK	1000	1000	Concentrated	None Detected	ND

Nathan Husted, Microbiology Lab Manager  
 or Other Approved Signatory

\**Legionella* confirmations are carried out using a direct fluorescent antibody stain for *Legionella pneumophila* serogroup (1-14) and a stain for 20 other *Legionella* species and their respective serotypes.

ND = None Detected. Volumes processed may be lower than volumes submitted if sample is turbid, high non-*Legionella* bacterial counts are found during primary isolation, or suspected of containing high non-*Legionella* counts such as from a swab, bulk or non-potable water source. Samples high in non-*Legionella* bacteria may obscure the detection of *Legionella*.

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The limit of detection (LOD) is the lowest reportable CFU count and is dependent on the sample volume submitted, prep volumes, and dilutions used in the testing. For typical water volumes submitted the LOD is 0.05 CFU/mL (1000 mL, Concentrated), 20 CFU/mL (1 mL, Acid Treated), and 10 CFU/mL (1 mL, Direct Plating). The LOD for swab samples is 100 CFU/swab (Acid Treated) or 50 CFU/swab (Direct Plating).

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--EMLAP Accredited #157245, CDC ELITE certified

Initial Report From: 09/30/2016 16:13:03



# EMSL Analytical, Inc.

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Brighton, MI 48116  
Project: MCN0816.03  
Telephone: (810) 220-2288  
Fax: (810) 220-2313  
Received Date: 09/16/2016  
Processed Date: 09/16/2016  
Analyzed Date: 09/30/2016

## Level 2 Legionella Detection - ID, Enumeration & Serotyping (1-14) of *L. pneumophila* by CDC Culture Method (EMSL Method M211)

Lab Sample ID	Client Sample ID / Sample Location	Number of Swabs	Suspension Volume (ml)	Method Processed	Identification	Final Result (CFU/Swab)
161616927-0007	091516-2S NBCN	1	5	Direct Plating	None Detected	ND
161616927-0008	091516-4S RVRFT	1	5	Direct Plating	None Detected	ND
161616927-0009	091516-5S RVRFT	1	5	Direct Plating	None Detected	ND

  
Nathan Husted, Microbiology Lab Manager  
or Other Approved Signatory

\*Legionella confirmations are carried out using a direct fluorescent antibody stain for Legionella pneumophila serogroup (1-14) and a stain for 20 other Legionella species and their respective serotypes.

ND = None Detected. Volumes processed may be lower than volumes submitted if sample is turbid, high non-Legionella bacterial counts are found during primary isolation, or suspected of containing high non-Legionella counts such as from a swab, bulk or non-potable water source. Samples high in non-Legionella bacteria may obscure the detection of Legionella.

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Initial Report From: 09/30/2016 16:12:56



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**Legionella Chain of Custody**  
EMSL Order Number (Lab Use Only):

161616927

EMSL ANALYTICAL, INC.  
2001 E. 52<sup>ND</sup>. ST.  
INDIANAPOLIS, IN 46205  
PHONE: 317-803-2997

Company: <u>Monarch Environmental, Inc.</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>				
Street: <u>P.O. Box 1986</u>		<small>Third Party Billing requires written authorization from third party</small>				
City: <u>Brighton</u>	State/Province: <u>MI</u>	Zip/Postal Code: <u>48116</u>	Country: <u>USA</u>			
Report To (Name): <u>Charles Wirth</u>		Telephone #: <u>810 220-2288</u>				
Email Address: <u>Charles@monarchenvironmental.com</u>		Fax #:	Purchase Order: <u>MCN081603</u>			
Project Name/Number: <u>MCN081603</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email				
U.S. State Samples Taken: <u>Michigan</u>		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential				
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide TATs are subject to methodology requirements</small>						
Legionella Turnaround Time (TAT): <input checked="" type="checkbox"/> 2 Week						
<b>Legionella Analysis:</b>						
M210: Presumptive Legionella Detection – Presumptive enumeration						
M211: Legionella Detection (CDC/ISO/SM9260J method culture and enumeration of Legionella pneumophila plus individual serotyping 1-14)						
M212: Legionella Detection (CDC/ISO/SM9260J method culture and enumeration of 9 Legionella species and serotyping including Legionella pneumophila 1-14)						
M213: CDC Heat Enrichment Plus M212 Identification for Samples Suspected of Containing High Levels of Protozoans						
M214: Pure Culture Preparation and Storage						
M215: Pure Culture Preparation and Shipping						
M023: Legionella pneumophila Detection. CDC/ISO/SM culture method 9160J enumeration of L. pneumophila. No individual serotyping.						
Heterotrophic Plate Count (HPC) Turnaround Time (TAT): <input type="checkbox"/> 2 Week						
<b>Heterotrophic Plate Count (HPC) Analysis:</b>						
M015: Heterotrophic Plate Count (HPC) SM 9215						
Name of Sampler: <u>Charles Wirth</u>		Signature of Sampler: <u>[Signature]</u>				
Sample #	Sample Location	Sample Type	Potable/NonPotable	Test Code	Volume/Area	Date/Time Collected
Example: A1	Kitchen	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP	M211	1000 mL	9/1/13 4:00 PM
091516-1	NBCN	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP	M211	1000 ml	09/15/16 10:20
091516-2	NBCN	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000 ml	10:40
091516-2S	NBCN	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			10:45
091516-3	RVRET	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000 ml	11:15
091516-4	RVRET	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000 ml	11:30
091516-4S	RVRET	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			11:40
091516-5	RVRET	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000 ml	12:00
091516-5S	RVRET	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			12:10
091516-6	FIELD BLANK	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000 ml	10:20-12:10
Client Sample # (s): <u>091516-1 091516-6</u>		Total # of Samples: <u>9</u>				
Relinquished (Client): <u>[Signature]</u>		Date: <u>9/15/16</u>	Time: <u>17:15</u>			
Received (Lab): <u>[Signature]</u>		Date: <u>9-16-16</u>	Time: <u>800 hrs</u>			
Comments: <u>Carrier via UPS overnight / Please contact 810 220-2288 with questions.</u>						



**Legionella Chain of Custody**  
**EMSL Order Number (Lab Use Only):**

161614395

EMSL ANALYTICAL, INC  
 2001 E 52<sup>ND</sup>. ST.  
 INDIANAPOLIS, IN 46205  
 PHONE: 317-803-2997

Company: <u>Monarch Environmental, Inc.</u>		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill is Different note instructions in Comments**				
Street: <u>P.O. Box 1700</u>		Third Party Billing requires written authorization from third party				
City: <u>Brighton MI</u>	State/Province: <u>MI</u>	Zip/Postal Code:	Country:			
Report To (Name): <u>Charles With</u>		Telephone #:				
Email Address: <u>charles@monarchenvironmental.com</u>		Fax #:	Purchase Order:			
Project Name/Number: <u>MCN0816-03</u>		Please Provide Results: <input type="checkbox"/> Fax <input type="checkbox"/> Email				
U.S. State Samples Taken: <u>Michigan</u>		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential				
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements						
Legionella Turnaround Time (TAT): <input checked="" type="checkbox"/> 2 Week						
<b>Legionella Analysis:</b>						
M210: Presumptive Legionella Detection - Presumptive enumeration						
M211: Legionella Detection (CDC/ISO/SM9260J method culture and enumeration of Legionella pneumophila plus individual serotyping 1-14)						
M212: Legionella Detection (CDC/ISO/SM9260J method culture and enumeration of 9 Legionella species and serotyping including Legionella pneumophila 1-14)						
M213: CDC Heat Enrichment Plus M212 Identification for Samples Suspected of Containing High Levels of Protozoans						
M214: Pure Culture Preparation and Storage						
M215: Pure Culture Preparation and Shipping						
M023: Legionella pneumophila Detection. CDC/ISO/SM culture method 9160J enumeration of L. pneumophila. No individual serotyping.						
Heterotrophic Plate Count (HPC) Turnaround Time (TAT): <input type="checkbox"/> 2 Week						
<b>Heterotrophic Plate Count (HPC) Analysis:</b>						
M015: Heterotrophic Plate Count (HPC) SM 9215						
Name of Sampler: <u>Charles With</u>		Signature of Sampler:				
Sample #	Sample Location	Sample Type	Potable/NonPotable	Test Code	Volume/Area	Date/Time Collected
Example: A1	Kitchen	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP	M211	1000 mL	9/1/13 4:00 PM
081116-1	NBCN	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP	M211	1000ml	8/11/16 10:45
081116-2	NBCN	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			10:55
081116-3	WSW	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000ml	11:12
081116-4	WSW	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000ml	11:25
081116-5	WSW	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			11:35
081116-6	WSW	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000ml	11:45
081116-7	WSW	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			11:55
081116-8	RVRFT	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000ml	12:10
081116-9	RVRFT	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			12:15
081116-10	FSRH	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000ml	12:35
081116-11	FSRH	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			12:40
081116-12	MRCH	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000ml	1305
Client Sample # (s): <u>081116-1 thru 081116-24</u>		Total # of Samples: <u>24</u>				
Relinquished (Client):		Date: <u>08/11/16</u>	Time: <u>17:45</u>			
Received (Lab):		Date: <u>8-17-16</u>	Time: <u>9:55 ep</u>			
Comments: <u>Please contact (800) 220 2288 with any questions.</u>						



**Legionella Chain of Custody**  
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2001 E 52ND ST  
INDIANAPOLIS, IN 46205

PHONE: 317-803-2997

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Location	Sample Type	Potable/ NonPotable	Test Code	Volume/Area	Date/Time Collected
081116-13	MRCH	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP	M211	1000ml	8/11/16 1320
081116-14	MRCH	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			1328
081116-15	UCEN	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000ml	1335
081116-16	UCEN	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			1350
081116-17	REC	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000ml	1400
081116-18	REC	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			1405
081116-19	UCEN	Water	<input type="checkbox"/> P <input checked="" type="checkbox"/> NP		(2) 250ml	1425
081116-20	UCEN	Swab	<input type="checkbox"/> P <input checked="" type="checkbox"/> NP			1430
081116-21	ROSS	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000ml	1450
081116-22	ROSS	Swab	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP			1455
081116-23	ROSS	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000ml	1510
081116-24	CEP	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP		1000ml	1520
			<input type="checkbox"/> P <input type="checkbox"/> NP			
			<input type="checkbox"/> P <input type="checkbox"/> NP			
			<input type="checkbox"/> P <input type="checkbox"/> NP			
			<input type="checkbox"/> P <input type="checkbox"/> NP			
			<input type="checkbox"/> P <input type="checkbox"/> NP			
			<input type="checkbox"/> P <input type="checkbox"/> NP			
			<input type="checkbox"/> P <input type="checkbox"/> NP			
			<input type="checkbox"/> P <input type="checkbox"/> NP			
			<input type="checkbox"/> P <input type="checkbox"/> NP			
			<input type="checkbox"/> P <input type="checkbox"/> NP			
			<input type="checkbox"/> P <input type="checkbox"/> NP			
			<input type="checkbox"/> P <input type="checkbox"/> NP			
<b>**Comments/Special Instructions:</b>						

14-0  
10-5



**FINAL REPORT**

**HOH Water Technology-Walker**  
500 S. Vermont St.  
Palatine, IL 60067  
P: (989) 239-8412  
**ATTN:** Ken Walker

**Account #:** 2602  
**SPL Project ID:** 1609-00198  
**Project Name:** U-M Flint  
**PO Number:** 331284  
**Sampled By:** Ken Walker  
**Date Received:** 09/08/2016  
**Date Final:** 09/15/2016

**Summary**

This summary is provided for your convenience. Complete report on the following pages.

**Environmental Culture Test–Legionella**

Location	Result	Concentration	Species
1. U Of M Flint North Tower Cooling Tower	Not Detected		
1. U Of M Flint Riverfront Residence Cooling Tower	Not Detected		
1. U Of M Flint CEP Cooling Tower	Not Detected		

Approved by: Sue Mietzner

Janet E. Stout, Ph.D.  
Director, Special Pathogens Laboratory



**FINAL REPORT**

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P: (989) 239-8412  
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**Account #:** 2602  
SPL Project ID: 1609-00198  
Project Name: U-M Flint  
PO Number: 331284  
Sampled By: Ken Walker  
Date Received: 09/08/2016  
Date Final: 09/15/2016

Location:	<b>1. U Of M Flint North Tower Cooling Tower</b>	Date Collected:	09/07/2016
Sample ID:	1609-00198.001	Sample Type:	Water
Test Requested:	Environmental Culture Test-Legionella	Status:	Complete 09/15/2016
Result:	<b>Not Detected</b>		

Location:	<b>1. U Of M Flint Riverfront Residence Cooling Tower</b>	Date Collected:	09/07/2016
Sample ID:	1609-00198.002	Sample Type:	Water
Test Requested:	Environmental Culture Test-Legionella	Status:	Complete 09/15/2016
Result:	<b>Not Detected</b>		

Location:	<b>1. U Of M Flint CEP Cooling Tower</b>	Date Collected:	09/07/2016
Sample ID:	1609-00198.003	Sample Type:	Water
Test Requested:	Environmental Culture Test-Legionella	Status:	Complete 09/15/2016
Result:	<b>Not Detected</b>		

Approved by: Sue Mietzner

Janet E. Stout, Ph.D.  
Director, Special Pathogens Laboratory

**NOTES**

**Environmental Culture Test-Legionella**

- CFU/mL = Colony Forming Units per milliliter of sample.
- Legionella culture limit of detection is approximately 10 CFU/mL. Potable water samples are filter concentrated, and the limit of detection (LOD) is approximately 1-10 CFU/mL. If less than the recommended volume is filtered, sensitivity may be affected. If 1 liter sample is processed, the LOD is approximately < 1 CFU/mL
- Total colony forming units of Legionella per swab. Limits of detection are approximately 20 colony forming units per swab.
- Results are reported as Not Detected, Positive, or Uninterpretable.
- Uninterpretable result is due to culture overgrowth by non-Legionella bacteria.
- Method: SPL Modified ISO Standards 11731-1:1998 and 11731-2:2004
- Accredited by the American Association for Laboratory Accreditation (Cert. No. 2847.01) and ELITE certified by the CDC



**SPECIAL  
PATHOGENS  
LABORATORY**

**THE LEGIONELLA EXPERTS®**

1401 Forbes Ave., Suite 401 Pittsburgh, PA 15219

P: 412-281-5335 F: 412-281-7445

[www.SpecialPathogensLab.com](http://www.SpecialPathogensLab.com)



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Palatine, IL 60067

P: (989) 239-8412

**ATTN:** Ken Walker

**FINAL REPORT**

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Processed Date: 08/18/2016  
Analyzed Date: 08/26/2016

## Level 2 Legionella Detection - ID, Enumeration & Serotyping (1-14) of *L. pneumophila* by CDC Culture Method (EMSL Method M211)

Lab Sample ID	Client Sample ID / Sample Location	Number of Swabs	Suspension Volume (ml)	Method Processed	Identification	Final Result (CFU/Swab)
161614395-0015	081116-2 NBCN	1	5	Direct Plating	None Detected	ND
161614395-0016	081116-5 WSW	1	5	Direct Plating	None Detected	ND
161614395-0017	081116-7 WSW	1	5	Direct Plating	None Detected	ND
161614395-0018	081116-9 RVRFT	1	5	Direct Plating	None Detected	ND
161614395-0019	081116-11 FSRH	1	5	Direct Plating	None Detected	ND
161614395-0020	081116-14 MRCH	1	5	Direct Plating	None Detected	ND
161614395-0021	081116-16 UCEN	1	5	Direct Plating	None Detected	ND
161614395-0022	081116-18 REC	1	5	Direct Plating	None Detected	ND
161614395-0023	081116-20 UCEN	1	5	Direct Plating	None Detected	ND
161614395-0024	081116-22 ROSS	1	5	Direct Plating	None Detected	ND

Nathan Husted, Microbiology Lab Manager  
or Other Approved Signatory

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ND = None Detected. Volumes processed may be lower than volumes submitted if sample is turbid, high non-Legionella bacterial counts are found during primary isolation, or suspected of containing high non-Legionella counts such as from a swab, bulk or non-potable water source. Samples high in non-Legionella bacteria may obscure the detection of Legionella.

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Initial report from: 08/26/2016 16:25:39



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**Project:** MCN0816.03

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Lab Sample ID	Client Sample ID / Sample Location	Volume Submitted (ml)	Volume Processed (mL)	Method Processed	Identification*	Final Result (CFU/mL)
161614395-0001	081116-1 NBCN	1000	1000	Concentrated	<i>Legionella pneumophila</i> (sero 7)	2.2
161614395-0002	081116-3 WSW	1000	1000	Concentrated	None Detected	ND
161614395-0003	081116-4 WSW	1000	1000	Concentrated	None Detected	ND
161614395-0004	081116-6 WSW	1000	1000	Concentrated	None Detected	ND
161614395-0005	081116-8 RVRFT	1000	1000	Concentrated	<i>Legionella pneumophila</i> (sero 1)	5.9
161614395-0006	081116-10 FSRH	1000	1000	Concentrated	None Detected	ND
161614395-0007	081116-12 MRCH	1000	500	Concentrated	None Detected	ND
161614395-0008	081116-13 MRCH	1000	1000	Concentrated	None Detected	ND
161614395-0009	081116-15 UCEN	500	1000	Concentrated	None Detected	ND

Nathan Husted, Microbiology Lab Manager  
or Other Approved Signatory

\**Legionella* confirmations are carried out using a direct fluorescent antibody stain for *Legionella pneumophila* serogroup (1-14) and a stain for 20 other *Legionella* species and their respective serotypes.

ND = None Detected. Volumes processed may be lower than volumes submitted if sample is turbid, high non-*Legionella* bacterial counts are found during primary isolation, or suspected of containing high non-*Legionella* counts such as from a swab, bulk or non-potable water source. Samples high in non-*Legionella* bacteria may obscure the detection of *Legionella*.

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The limit of detection (LOD) is the lowest reportable CFU count and is dependent on the sample volume submitted, prep volumes, and dilutions used in the testing. For typical water volumes submitted the LOD is 0.05 CFU/mL (1000 mL, Concentrated), 20 CFU/mL (1 mL, Acid Treated), and 10 CFU/mL (1 mL, Direct Plating). The LOD for swab samples is 100 CFU/swab (Acid Treated) or 50 CFU/swab (Direct Plating).

**Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--EMLAP Accredited #157245, CDC ELITE certified**

Initial report from: 08/26/2016 16:25:47



# EMSL Analytical, Inc.

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**Order ID:** 161614395  
**Customer ID:** MONE25  
**Customer PO:**  
**Project ID:**

**Attn:** Charles Wirth (Ted)  
Monarch Environmental, Inc.  
PO Box 1986  
Brighton, MI 48116  
**Project:** MCN0816.03

**Telephone:** (810) 220-2288  
**Fax:** (810) 220-2313  
**Received Date:** 08/12/2016  
**Processed Date:** 08/18/2016  
**Analyzed Date:** 08/26/2016

## Level 2 Legionella Detection - ID, Enumeration & Serotyping (1-14) of *L. pneumophila* by CDC Culture Method (EMSL Method M211)

Lab Sample ID	Client Sample ID / Sample Location	Volume Submitted (ml)	Volume Processed (mL)	Method Processed	Identification*	Final Result (CFU/mL)
161614395-0010	081116-17 REC	1000	1000	Concentrated	None Detected	ND
161614395-0011	081116-19 UCEN	1000	1000	Concentrated	None Detected	ND
161614395-0012	081116-21 ROSS	1000	1000	Concentrated	None Detected	ND
161614395-0013	081116-23 ROSS	1000	1000	Concentrated	None Detected	ND
161614395-0014	081116-24 CEP	1000	1000	Concentrated	None Detected	ND

  
Nathan Husted, Microbiology Lab Manager  
or Other Approved Signatory

\*Legionella confirmations are carried out using a direct fluorescent antibody stain for Legionella pneumophila serogroup (1-14) and a stain for 20 other Legionella species and their respective serotypes.

ND = None Detected. Volumes processed may be lower than volumes submitted if sample is turbid, high non-Legionella bacterial counts are found during primary isolation, or suspected of containing high non-Legionella counts such as from a swab, bulk or non-potable water source. Samples high in non-Legionella bacteria may obscure the detection of Legionella.

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