



**CONESTOGA-ROVERS  
& ASSOCIATES**

14496 Sheldon Road, Suite 200, Plymouth, Michigan 48170  
Telephone: (734) 453-5123 Fax: (734) 453-5201  
[www.CRAworld.com](http://www.CRAworld.com)

January 10, 2014

Reference No. 017303

Mr. Luther Blackburn  
YCUA Industrial Pretreatment Program Supervisor  
Ypsilanti Community Utilities Authority  
2777 State Road  
Ypsilanti, MI 48198-9112

Dear Mr. Blackburn:

Re: Quarterly Self-Monitoring Report  
Industrial User Permit #RA 12-15  
RACER Trust  
Company Vehicle Operations Area (CVO)  
2901 Tyler Road  
Ypsilanti, Michigan

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Pursuant to requirements of Industrial User Permit # RA 12-15 (Permit) Part 3 A, the permittee is required to submit self-monitoring reports by the 20<sup>th</sup> of every month following the reporting period specified in Appendix A of the Permit. Conestoga-Rovers & Associates (CRA) has prepared this self-monitoring report on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust.

This self-monitoring report summarizes the discharge information for the 2013 fourth quarter (October through December) period.

During the October through December period, water was discharged as indicated on Table 1. The water was treated with sodium permanganate prior to each discharge event during this quarter. The water was also treated through carbon vessels. The sampling events were conducted on October 30, 2013, November 6, 2013, and December 4, 2013. Attachment A presents a summary of the analytical data for samples collected on all three sampling events. The laboratory reports including chains of custody are provided in Attachment B.

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REGISTERED COMPANY FOR  
**ISO 9001**  
ENGINEERING DESIGN



**CONESTOGA-ROVERS  
& ASSOCIATES**

January 10, 2013

Reference No. 017303

- 2 -

Should you have any questions, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Beth Landale, PE  
Project Manager

AB/bw/44/Det.

Encl.

cc: Grant Trigger, RACER  
Dave Favero, RACER  
Ron Evenson, EQ

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Grant Trigger  
Michigan Cleanup Manager  
Revitalizing Auto Communities Environmental Response Trust

TABLE 1

**GROUNDWATER DISCHARGE VOLUME  
OCTOBER THROUGH DECEMBER 2013  
FORMER WILLOW RUN COMPANY VEHICLE OPERATIONS  
2901 TYLER ROAD  
YPSILANTI, MICHIGAN**

<b>Date</b>	<b>Gallons</b>
October 30, 2013	26,740
<b>Total</b>	<b>26,740</b>
November 6, 2013	37,215
November 8, 2013	15,291
November 13, 2013	20,719
November 20, 2013	33,645
November 21, 2013	17,700
<b>Total</b>	<b>124,570</b>
December 4, 2013	18,588
December 5, 2013	24,062
December 6, 2013	17,740
December 9, 2013	12,100
December 16, 2013	9,200
<b>Total</b>	<b>81,690</b>
<b>Overall</b>	<b>233,000</b>

# Attachment A

## Analytical Data

**YPSILANTI COMMUNITY UTILITIES AUTHORITY  
INDUSTRIAL USER PERMIT SELF MONITORING REPORT  
REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST**

Facility : Company Vehicle Operations Area  
Permit No.: RA 12-15  
Sample Point: Post Treatment and Prior to discharge into MH6

Reporting Period  
Year 2013  
Quarter IV

Sample Date					10/30/2013	11/6/2013	12/4/2013
Sample Location					Point of Discharge	Point of Discharge	Point of Discharge
Sample ID					AOC 18 Discharge 10/30/13	Discharge 11-6-13	12/04/13 Discharge
Parameter	Upper Limit (mg/l)	Monitoring Frequency	Reporting Frequency	Sample Type			
Flow (GAL)	Report	Once/Discharge	Monthly/Quarterly*	Metered	26,740 <sup>1</sup>	124,570 <sup>1</sup>	81,690 <sup>1</sup>
1,2-Dichloroethane	0.50	Monthly	Quarterly	Grab	0.0005 U	0.0005 U	0.0005 U
Trichloroethene	0.50	Monthly	Quarterly	Grab	0.0005 U	0.0005 U	0.0005 U
Vinyl Chloride	0.20	Monthly	Quarterly	Grab	0.0005 U	0.0005 U	0.0005 U
Polychlorinated Biphenyls	<0.0002**	Monthly	Quarterly	24-Hour Time proportionated Composite***	0.00001 U	0.00001 U	0.000038 U
pH	≥ 5.0 and ≤ 11.0 S.U	Semi-Annual	Semi-Annual	Grab	8.92	7.78	--
Benzene	0.50	Semi-Annual	Semi-Annual	Grab	0.0005 U	0.0005 U	0.0005 U
Carbon Tetrachloride	0.50	Semi-Annual	Semi-Annual	Grab	0.0005 U	0.0005 U	0.0005 U
Chlorobenzene	100.00	Semi-Annual	Semi-Annual	Grab	0.0005 U	0.0005 U	0.0005 U
Chloroform	6.00	Semi-Annual	Semi-Annual	Grab	0.0005 U	0.0005 U	0.0005 U
1,4-Dichlorobenzene	7.50	Semi-Annual	Semi-Annual	Grab	0.0005 U	0.0005 U	0.0005 U
1,1-Dichloroethene	0.70	Semi-Annual	Semi-Annual	Grab	0.0005 U	0.0005 U	0.0005 U
Methyl Ethyl Ketone	200.00	Semi-Annual	Semi-Annual	Grab	0.02 U	0.02 U	--
Tetrachloroethene	0.70	Semi-Annual	Semi-Annual	Grab	0.0005 U	0.0005 U	0.0005 U
Total Phenolics	1.00	Semi-Annual	Semi-Annual	Grab	0.01 U	0.014	--

## Notes

\* As established in Part 4, Section B - Special Conditions: The permittee is required to report the total volume of process discharges to Outfall 001 by the 5th of every month for the previous calendar month. The permittee shall additionally report a summary of individual discharges during the reporting quarter. The quarterly summary shall accompany the permittee's monitoring report submittal.

\*\* Any discharge at or above the level of detection shall be a specific violation of the Permit. For PCB analysis, the sampling and analytical protocol for compliance shall be in accordance with EPA Method 608 employing a detection level of 0.0002 mg/L unless a higher detection limit is appropriate due to sample matrix interference.

\*\*\*PCBs are not 24 hour composites but time proportionated composites while the system is treating and discharging.

U: Analyte was analyzed for but not detected

J: Concentration is an approximate value

<sup>1</sup> A total monthly volume of treated water discharged to Outfall 001.

# **Attachment B**

## **Laboratory Reports**



2525 Advance Road  
Madison, WI 53718  
608.221.8700 Phone  
608.221.4889 Fax

04 November 2013

Ron Evenson  
EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva, IL 60134  
RE: Racer CVO COA-18

Enclosed are the analytical results for the samples received by the laboratory on 10/30/2013.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAP Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Krzysztof Trafalski For Nick Nigro  
President

Certification List			Expires
ILEPA	Illinois Secondary NELAP Accreditation	003174	04/30/2014
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2014
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2014
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2014
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2014



2525 Advance Road  
Madison, WI 53718  
608.221.8700 Phone  
608.221.4889 Fax

EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

**Reported:**  
11/04/2013

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AOC 18 DISCHARGE 10/30/13	P134407-01	Water	10/30/2013	10/30/2013





2525 Advance Road  
Madison, WI 53718  
608.221.8700 Phone  
608.221.4889 Fax

EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

Reported:  
11/04/2013

**AOC 18 DISCHARGE 10/30/13**

**P134407-01 (Water)**

**Date Sampled**  
**10/30/2013 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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**ECCS - Lab #15**

**Volatile Organic Compounds by Method 8260 - Purge and Trap**

**Preparation Batch: P310047**

Benzene	ND	0.50	ug/L	1	10/30/2013	10/30/2013 21:46	EPA 8260B
2-Butanone	ND	20	ug/L	1	10/30/2013	10/30/2013 21:46	EPA 8260B
Carbon tetrachloride	ND	0.50	ug/L	1	10/30/2013	10/30/2013 21:46	EPA 8260B
Chlorobenzene	ND	0.50	ug/L	1	10/30/2013	10/30/2013 21:46	EPA 8260B
Chloroform	ND	0.50	ug/L	1	10/30/2013	10/30/2013 21:46	EPA 8260B
1,4-Dichlorobenzene	ND	0.50	ug/L	1	10/30/2013	10/30/2013 21:46	EPA 8260B
1,2-Dichloroethane	ND	0.50	ug/L	1	10/30/2013	10/30/2013 21:46	EPA 8260B
1,1-Dichloroethene	ND	0.50	ug/L	1	10/30/2013	10/30/2013 21:46	EPA 8260B
Tetrachloroethene	ND	0.50	ug/L	1	10/30/2013	10/30/2013 21:46	EPA 8260B
Trichloroethene	ND	0.50	ug/L	1	10/30/2013	10/30/2013 21:46	EPA 8260B
Vinyl chloride	ND	0.50	ug/L	1	10/30/2013	10/30/2013 21:46	EPA 8260B
Surrogate: Dibromofluoromethane	100 %	82.2-117			10/30/2013	10/30/2013 21:46	EPA 8260B
Surrogate: Toluene-d8	97.8 %	82.6-111			10/30/2013	10/30/2013 21:46	EPA 8260B
Surrogate: 4-Bromofluorobenzene	107 %	88.4-108			10/30/2013	10/30/2013 21:46	EPA 8260B



2525 Advance Road  
Madison, WI 53718  
608.221.8700 Phone  
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EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

**Reported:**  
11/04/2013

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

**Reported:**  
11/04/2013

### Notes and Definitions

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.

RPD      Relative Percent Difference

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2525 Advance Road  
Madison, WI 53718  
608.221.8700 Phone  
608.221.4889 Fax

07 November 2013

Ron Evenson  
EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva, IL 60134  
RE: Racer CVO COA-18

Enclosed are the analytical results for the samples received by the laboratory on 11/06/2013.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Krzysztof Trafalski For Nick Nigro  
President

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2525 Advance Road  
Madison, WI 53718  
608.221.8700 Phone  
608.221.4889 Fax

EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

**Reported:**  
11/07/2013

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DISCHARGE 11-6-13	P134509-01	Water	11/06/2013	11/06/2013



2525 Advance Road  
Madison, WI 53718  
608.221.8700 Phone  
608.221.4889 Fax

EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

Reported:  
11/07/2013

**DISCHARGE 11-6-13**

**P134509-01 (Water)**

Date Sampled  
11/06/2013 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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**ECCS - Lab #15**

**Volatile Organic Compounds by Method 8260 - Purge and Trap**

**Preparation Batch: P311012**

Benzene	ND	0.50	ug/L	1	11/06/2013	11/06/2013 19:34	EPA 8260B
2-Butanone	ND	20	ug/L	1	11/06/2013	11/06/2013 19:34	EPA 8260B
Carbon tetrachloride	ND	0.50	ug/L	1	11/06/2013	11/06/2013 19:34	EPA 8260B
Chlorobenzene	ND	0.50	ug/L	1	11/06/2013	11/06/2013 19:34	EPA 8260B
Chloroform	ND	0.50	ug/L	1	11/06/2013	11/06/2013 19:34	EPA 8260B
1,4-Dichlorobenzene	ND	0.50	ug/L	1	11/06/2013	11/06/2013 19:34	EPA 8260B
1,2-Dichloroethane	ND	0.50	ug/L	1	11/06/2013	11/06/2013 19:34	EPA 8260B
1,1-Dichloroethene	ND	0.50	ug/L	1	11/06/2013	11/06/2013 19:34	EPA 8260B
Tetrachloroethene	ND	0.50	ug/L	1	11/06/2013	11/06/2013 19:34	EPA 8260B
Trichloroethene	ND	0.50	ug/L	1	11/06/2013	11/06/2013 19:34	EPA 8260B
Vinyl chloride	ND	0.50	ug/L	1	11/06/2013	11/06/2013 19:34	EPA 8260B
Surrogate: Dibromofluoromethane	105 %	82.2-117			11/06/2013	11/06/2013 19:34	EPA 8260B
Surrogate: Toluene-d8	96.8 %	82.6-111			11/06/2013	11/06/2013 19:34	EPA 8260B
Surrogate: 4-Bromofluorobenzene	108 %	88.4-108			11/06/2013	11/06/2013 19:34	EPA 8260B



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EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

**Reported:**  
11/07/2013

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

**Reported:**  
11/07/2013

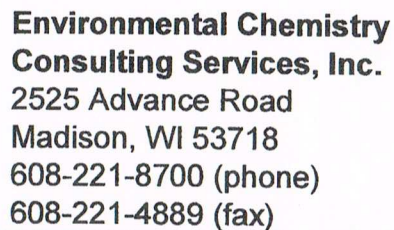
### Notes and Definitions

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dry      Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.

RPD      Relative Percent Difference

Page 1 of 1Page 6 of 6 P134509 FINAL 11 07 2013 1743 11/07/2013 17:43:56

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-39753-1

TestAmerica Sample Delivery Group: Ypsilanti, MI

Client Project/Site: POTW (YUCA)

For:

EQ Industrial Services

321 Hamilton Street, Suite G

Geneva, Illinois 60134

Attn: Ron Evenson



Authorized for release by:

11/14/2013 10:53:43 AM

Sherry Salomon, Project Management Assistant II

(615)726-0177

[sherry.salomon@testamericainc.com](mailto:sherry.salomon@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

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

The test results in this report meet all 2003 NELAP and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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## Sample Summary

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-39753-1	Discharge 11/6/13	Water	11/06/13 10:00	11/07/13 08:30
490-39753-2	Discharge 11/6/13	Water	11/06/13 17:00	11/07/13 08:30

## Case Narrative

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

**Job ID: 490-39753-1**

**Laboratory: TestAmerica Nashville**

### Narrative

#### Job Narrative 490-39753-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/7/2013 at 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

#### GC Semi VOA

Method(s) 608: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analysis batch 180-89634. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

#### General Chemistry

No analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

## Definitions/Glossary

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

### Qualifiers

#### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



## Client Sample Results

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

**Client Sample ID: Discharge 11/6/13**

**Lab Sample ID: 490-39753-1**

**Date Collected: 11/06/13 10:00**

**Matrix: Water**

**Date Received: 11/07/13 08:30**

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.0143		0.0100		mg/L		11/13/13 08:51	11/13/13 12:32	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.78	HF	0.100		SU			11/13/13 14:02	1



## Client Sample Results

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

**Client Sample ID: Discharge 11/6/13**

**Lab Sample ID: 490-39753-2**

**Date Collected: 11/06/13 17:00**

**Matrix: Water**

**Date Received: 11/07/13 08:30**

**Method: 608 - Organochlorine Pesticides/PCBs in Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.0000101		mg/L		11/11/13 12:30	11/12/13 18:32	1
Aroclor-1221	ND		0.0000101		mg/L		11/11/13 12:30	11/12/13 18:32	1
Aroclor-1232	ND		0.0000101		mg/L		11/11/13 12:30	11/12/13 18:32	1
Aroclor-1242	ND		0.0000101		mg/L		11/11/13 12:30	11/12/13 18:32	1
Aroclor-1248	ND		0.0000101		mg/L		11/11/13 12:30	11/12/13 18:32	1
Aroclor-1254	ND		0.0000101		mg/L		11/11/13 12:30	11/12/13 18:32	1
Aroclor-1260	ND		0.0000101		mg/L		11/11/13 12:30	11/12/13 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		36 - 129				11/11/13 12:30	11/12/13 18:32	1
DCB Decachlorobiphenyl (Surr)	92		57 - 144				11/11/13 12:30	11/12/13 18:32	1

# QC Sample Results

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

## Method: 608 - Organochlorine Pesticides/PCBs in Water

Lab Sample ID: MB 180-89423/1-A

Matrix: Water

Analysis Batch: 89634

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 89423

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.0000100		mg/L		11/11/13 12:30	11/12/13 23:22	1
Aroclor-1221	ND		0.0000100		mg/L		11/11/13 12:30	11/12/13 23:22	1
Aroclor-1232	ND		0.0000100		mg/L		11/11/13 12:30	11/12/13 23:22	1
Aroclor-1242	ND		0.0000100		mg/L		11/11/13 12:30	11/12/13 23:22	1
Aroclor-1248	ND		0.0000100		mg/L		11/11/13 12:30	11/12/13 23:22	1
Aroclor-1254	ND		0.0000100		mg/L		11/11/13 12:30	11/12/13 23:22	1
Aroclor-1260	ND		0.0000100		mg/L		11/11/13 12:30	11/12/13 23:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		36 - 129	11/11/13 12:30	11/12/13 23:22	1
DCB Decachlorobiphenyl (Surr)	91		57 - 144	11/11/13 12:30	11/12/13 23:22	1

Lab Sample ID: LCS 180-89423/2-A

Matrix: Water

Analysis Batch: 89634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 89423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.00100	0.0008703		mg/L		87	50 - 114
Aroclor-1260	0.00100	0.0008684		mg/L		87	10 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	89		36 - 129
DCB Decachlorobiphenyl (Surr)	91		57 - 144

Lab Sample ID: LCSD 180-89423/3-A

Matrix: Water

Analysis Batch: 89634

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 89423

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aroclor-1016	0.00100	0.0008687		mg/L		87	50 - 114	0	20
Aroclor-1260	0.00100	0.0008526		mg/L		85	10 - 127	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	87		36 - 129
DCB Decachlorobiphenyl (Surr)	89		57 - 144

## Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 180-89620/2-A

Matrix: Water

Analysis Batch: 89650

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 89620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.0100		mg/L		11/13/13 08:51	11/13/13 12:31	1

TestAmerica Nashville

## QC Sample Results

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

### Method: 420.1 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 180-89620/1-A

Matrix: Water

Analysis Batch: 89650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 89620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.200	0.2157		mg/L		108	90 - 110

Lab Sample ID: 680-95960-E-1-B MS

Matrix: Water

Analysis Batch: 89650

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 89620

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	ND		0.200	0.2088		mg/L		100	90 - 110

Lab Sample ID: 680-95960-E-1-C MSD

Matrix: Water

Analysis Batch: 89650

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 89620

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenolics, Total Recoverable	ND		0.200	0.2172		mg/L		104	90 - 110	4	20

### Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 180-89615/1

Matrix: Water

Analysis Batch: 89615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.030		SU		100	99 - 101

Lab Sample ID: 490-39753-1 DU

Matrix: Water

Analysis Batch: 89615

Client Sample ID: Discharge 11/6/13

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.78	HF	7.810		SU		0.4	2

## QC Association Summary

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

### GC Semi VOA

#### Prep Batch: 89423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39753-2	Discharge 11/6/13	Total/NA	Water	608	
LCS 180-89423/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 180-89423/3-A	Lab Control Sample Dup	Total/NA	Water	608	
MB 180-89423/1-A	Method Blank	Total/NA	Water	608	

#### Analysis Batch: 89634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39753-2	Discharge 11/6/13	Total/NA	Water	608	89423
LCS 180-89423/2-A	Lab Control Sample	Total/NA	Water	608	89423
LCS 180-89423/3-A	Lab Control Sample Dup	Total/NA	Water	608	89423
MB 180-89423/1-A	Method Blank	Total/NA	Water	608	89423

### General Chemistry

#### Analysis Batch: 89615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39753-1	Discharge 11/6/13	Total/NA	Water	SM 4500 H+ B	
490-39753-1 DU	Discharge 11/6/13	Total/NA	Water	SM 4500 H+ B	
LCS 180-89615/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

#### Prep Batch: 89620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39753-1	Discharge 11/6/13	Total/NA	Water	Distill/Phenol	
680-95960-E-1-B MS	Matrix Spike	Total/NA	Water	Distill/Phenol	
680-95960-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	Distill/Phenol	
LCS 180-89620/1-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 180-89620/2-A	Method Blank	Total/NA	Water	Distill/Phenol	

#### Analysis Batch: 89650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39753-1	Discharge 11/6/13	Total/NA	Water	420.1	89620
680-95960-E-1-B MS	Matrix Spike	Total/NA	Water	420.1	89620
680-95960-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	420.1	89620
LCS 180-89620/1-A	Lab Control Sample	Total/NA	Water	420.1	89620
MB 180-89620/2-A	Method Blank	Total/NA	Water	420.1	89620

# Lab Chronicle

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

**Client Sample ID: Discharge 11/6/13**

**Date Collected: 11/06/13 10:00**

**Date Received: 11/07/13 08:30**

**Lab Sample ID: 490-39753-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 H+ B		1	89615	11/13/13 14:02	ADW	TAL PIT
Total/NA	Prep	Distill/Phenol			89620	11/13/13 08:51	SJK	TAL PIT
Total/NA	Analysis	420.1		1	89650	11/13/13 12:32	SJK	TAL PIT

**Client Sample ID: Discharge 11/6/13**

**Date Collected: 11/06/13 17:00**

**Date Received: 11/07/13 08:30**

**Lab Sample ID: 490-39753-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	608			89423	11/11/13 12:30	CBY	TAL PIT
Total/NA	Analysis	608		1	89634	11/12/13 18:32	AKG	TAL PIT

## Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

## Method Summary

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

Method	Method Description	Protocol	Laboratory
608	Organochlorine Pesticides/PCBs in Water	40CFR136A	TAL PIT
420.1	Phenolics, Total Recoverable	MCAWW	TAL PIT
SM 4500 H+ B	pH	SM	TAL PIT

### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

### Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Certification Summary

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

## Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-14
California	NELAP	9	4224CA	03-31-14
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAP	4	E871008	06-30-14
Illinois	NELAP	5	002602	06-30-14

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Nashville

## Certification Summary

Client: EQ Industrial Services  
Project/Site: POTW (YUCA)

TestAmerica Job ID: 490-39753-1  
SDG: Ypsilanti, MI

### Laboratory: TestAmerica Pittsburgh (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

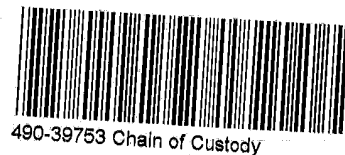
Authority	Program	EPA Region	Certification ID	Expiration Date
Kansas	NELAP	7	E-10350	01-31-14
L-A-B	DoD ELAP		L2314	07-16-16
Louisiana	NELAP	6	04041	06-30-13 *
New Hampshire	NELAP	1	203011	04-05-14
New Jersey	NELAP	2	PA005	06-30-14
New York	NELAP	2	11182	04-01-14
North Carolina DENR	State Program	4	434	12-31-13
Pennsylvania	NELAP	3	02-00416	04-30-14
South Carolina	State Program	4	89014	04-30-14
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	04-30-14
Virginia	NELAP	3	460189	09-14-14
West Virginia DEP	State Program	3	142	01-31-14
Wisconsin	State Program	5	998027800	08-31-14

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Nashville



## COOLER RECEIPT FORM



Cooler Received/Opened On 11/7/2013 @ 0830

1. Tracking # 0609 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 1.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: \_\_\_\_\_

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) Ch

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) Ch

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) Ch

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) Ch

I certify that I attached a label with the unique LIMS number to each container (initial) Ch

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# \_\_\_\_\_

11/14/2013

## Login Sample Receipt Checklist

Client: EQ Industrial Services

Job Number: 490-39753-1

SDG Number: Ypsilanti, MI

Login Number: 39753

List Number: 1

Creator: Huckaba, Jimmy

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

## Login Sample Receipt Checklist

Client: EQ Industrial Services

Job Number: 490-39753-1

SDG Number: Ypsilanti, MI

Login Number: 39753

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 11/09/13 06:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



2525 Advance Road  
Madison, WI 53718  
608.221.8700 Phone  
608.221.4889 Fax

05 December 2013

Ron Evenson  
EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva, IL 60134  
RE: Racer CVO COA-18

Enclosed are the analytical results for the samples received by the laboratory on 12/04/2013.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAP Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ben Claas For Nick Nigro  
President

Certification List			Expires
ILEPA	Illinois Secondary NELAP Accreditation	003174	04/30/2014
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2014
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2014
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2014
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2014



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EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

**Reported:**  
12/05/2013

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DISCHARGE 12-4	P134907-01	Water	12/04/2013	12/04/2013



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EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

Reported:  
12/05/2013

### DISCHARGE 12-4

P134907-01 (Water)

Date Sampled  
12/04/2013 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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### ECCS - Lab #15

#### Volatile Organic Compounds by Method 8260 - Purge and Trap

Benzene	ND	0.00050	mg/L	1	12/04/2013	12/04/2013 12:36	EPA 8260B	
2-Butanone	ND	0.020	mg/L	1	12/04/2013	12/04/2013 12:36	EPA 8260B	
Carbon tetrachloride	ND	0.00050	mg/L	1	12/04/2013	12/04/2013 12:36	EPA 8260B	
Chlorobenzene	ND	0.00050	mg/L	1	12/04/2013	12/04/2013 12:36	EPA 8260B	
Chloroform	ND	0.00050	mg/L	1	12/04/2013	12/04/2013 12:36	EPA 8260B	
1,4-Dichlorobenzene	ND	0.00050	mg/L	1	12/04/2013	12/04/2013 12:36	EPA 8260B	
1,2-Dichloroethane	ND	0.00050	mg/L	1	12/04/2013	12/04/2013 12:36	EPA 8260B	
1,1-Dichloroethene	ND	0.00050	mg/L	1	12/04/2013	12/04/2013 12:36	EPA 8260B	
Tetrachloroethene	ND	0.00050	mg/L	1	12/04/2013	12/04/2013 12:36	EPA 8260B	
Trichloroethene	ND	0.00050	mg/L	1	12/04/2013	12/04/2013 12:36	EPA 8260B	
Vinyl chloride	ND	0.00050	mg/L	1	12/04/2013	12/04/2013 12:36	EPA 8260B	
Surrogate: Dibromofluoromethane		111 %		82.2-117	12/04/2013	12/04/2013 12:36	EPA 8260B	
Surrogate: Toluene-d8		98.4 %		82.6-111	12/04/2013	12/04/2013 12:36	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		108 %		88.4-108	12/04/2013	12/04/2013 12:36	EPA 8260B	



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EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

**Reported:**  
12/05/2013

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

**Reported:**  
12/05/2013

### Notes and Definitions

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.

RPD      Relative Percent Difference



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321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: Racer CVO COA-18  
Project Number: 2644  
Project Manager: Ron Evenson

**Reported:**  
12/05/2013



2525 Advance Road  
Madison, WI 53718  
608.221.8700 Phone  
608.221.4889 Fax

12 December 2013

Ron Evenson  
EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva, IL 60134  
RE: GM Willow Run Company Vehicle Operations (CVO)

Enclosed are the analytical results for the samples received by the laboratory on 12/05/2013.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAP Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica Esser  
Project Manager

**Certification List**

**Expires**

ILEPA	Illinois Secondary NELAP Accreditation	003174	04/30/2014
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2014
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2014
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2014
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2014



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608.221.8700 Phone  
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EQ - The Environmental Quality Company  
321 Hamilton Street, Suite G  
Geneva IL, 60134

Project: GM Willow Run Company Vehicle Operations (CVO)  
Project Number: 2644  
Project Manager: Ron Evenson

**Reported:**  
12/12/2013

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12/04/13 Discharge	A134913-01	Water	12/04/2013	12/05/2013



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Project Manager: Ron Evenson

Reported:  
12/12/2013

**12/04/13 Discharge**

Date Sampled

**A134913-01 (Water)**

**12/04/2013 16:00**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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**ECCS**

**Polychlorinated Biphenyls by EPA Method 8082**

**Preparation Batch: A312023**

PCB-1016	ND	0.035	0.050	ug/L	1	12/05/2013	12/05/2013 21:27	EPA 8082A	
PCB-1221	ND	0.020	0.10	ug/L	1	12/05/2013	12/05/2013 21:27	EPA 8082A	
PCB-1232	ND	0.037	0.050	ug/L	1	12/05/2013	12/05/2013 21:27	EPA 8082A	
PCB-1242	ND	0.038	0.050	ug/L	1	12/05/2013	12/05/2013 21:27	EPA 8082A	
PCB-1248	ND	0.020	0.050	ug/L	1	12/05/2013	12/05/2013 21:27	EPA 8082A	
PCB-1254	ND	0.0090	0.050	ug/L	1	12/05/2013	12/05/2013 21:27	EPA 8082A	
PCB-1260	ND	0.025	0.050	ug/L	1	12/05/2013	12/05/2013 21:27	EPA 8082A	
Total PCBs	ND	0.038	0.10	ug/L	1	12/05/2013	12/05/2013 21:27	EPA 8082A	

Surrogate: Decachlorobiphenyl 93.7 % 75.4-168 12/05/2013 12/05/2013 21:27 EPA 8082A

Surrogate: Tetrachloro-meta-xylene 104 % 74.3-141 12/05/2013 12/05/2013 21:27 EPA 8082A



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Project Number: 2644  
Project Manager: Ron Evenson

Reported:  
12/12/2013

## Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

### ECCS

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A312023 - EPA 3511

##### Blank (A312023-BLK1)

Prepared: 12/05/2013 Analyzed: 12/05/2013 20:38

PCB-1016	ND	0.050	ug/L							
PCB-1221	ND	0.10	ug/L							
PCB-1232	ND	0.050	ug/L							
PCB-1242	ND	0.050	ug/L							
PCB-1248	ND	0.050	ug/L							
PCB-1254	ND	0.050	ug/L							
PCB-1260	ND	0.050	ug/L							
Total PCBs	ND	0.10	ug/L							
Surrogate: Decachlorobiphenyl	0.937		ug/L	0.9900		94.6	75.4-168			
Surrogate: Tetrachloro-meta-xylene	0.732		ug/L	0.7500		97.6	74.3-141			

##### LCS (A312023-BS1)

Prepared: 12/05/2013 Analyzed: 12/05/2013 21:02

PCB-1260	15.3	0.050	ug/L	12.50		122	70-130			
Surrogate: Decachlorobiphenyl	1.05		ug/L	0.9900		106	75.4-168			
Surrogate: Tetrachloro-meta-xylene	0.773		ug/L	0.7500		103	74.3-141			

##### Matrix Spike (A312023-MS1)

Source: A134913-01

Prepared: 12/05/2013 Analyzed: 12/05/2013 21:52

PCB-1260	14.6	0.050	ug/L	12.50	ND	117	60-140			
Surrogate: Decachlorobiphenyl	0.910		ug/L	0.9900		91.9	75.4-168			
Surrogate: Tetrachloro-meta-xylene	0.717		ug/L	0.7500		95.6	74.3-141			

##### Matrix Spike Dup (A312023-MSD1)

Source: A134913-01

Prepared: 12/05/2013 Analyzed: 12/05/2013 22:17

PCB-1260	14.4	0.050	ug/L	12.50	ND	115	60-140	1.78	20	
Surrogate: Decachlorobiphenyl	0.938		ug/L	0.9900		94.7	75.4-168			
Surrogate: Tetrachloro-meta-xylene	0.736		ug/L	0.7500		98.2	74.3-141			



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**Reported:**  
12/12/2013

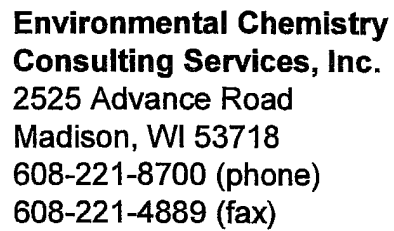
### Notes and Definitions

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.

RPD      Relative Percent Difference

Page 1 of 1

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December 30, 2013

Rawa Fleisher  
Conestoga-Rovers & Associates, Inc.  
14496 Sheldon Road  
Suite 200  
Plymouth, MI US 48170

Enovis project ID: E200062  
Project: Ford Michigan Casting Center Landfill - O.M&M Services-FlatRock  
Project number: 71560  
Laboratory: TestAmerica - North Canton  
Laboratory submittal: 32459-1  
Sample date: 2013-12-11  
Report received by Enovis: 2013-12-26  
Initial Data Verification completed by Enovis: 2013-12-30

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the Enovis Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

1 Water sample(s) was analyzed for GCMS SVOC, Metals and General Chemistry parameter(s).

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

The following minor QC exceptions or missing information were noted:

GCMS SVOC Tentatively Identified Compounds (TIC's) results should be considered to be estimated and qualified with NJ flags. Note: 3-Methylethylphenol and 4-methylethylphenol TIC's are co-eluting compounds so the individual results should be considered to a combined total concentration of both analytes.

Metals method blank had a detection below the RL for Molybdenum. Qualification of client sample results was not required based on this method blank detection.

Ammonia method blank had a detection below the RL. Qualification of client sample results was not required based on this method blank detection.

General Chemistry CBOD SCB result was marginally above the method criteria. Client sample CBOD results were not verified based on the data provided in the laboratory case narrative.

The definitions of the qualifiers used for this data package are defined in the analytical report. Enovis valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory's analytical report access the Enovis CLMS at <http://enovis-inc.com/enovis53/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

## Enovis Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

## SAMPLING AND ANALYSIS SUMMARY

**Enovis Project ID:** E200062

**Laboratory:** TestAmerica-North Canton

**Laboratory Submittal:** 32459-1

Lab Sample ID	Sample ID	Collection Date (mm/yy/dd)	Collection Time (hh:mm:ss)	Base/Neutrals and Acids	Metals	Mercury - CVAA	Ammonia in Water - Ion Select.	Biochemical Oxygen Demand
240324591	TP-71560-121113-SR-108	12/11/2013	10:00:00	X	X	X	X	X

# Qualified Results Summary

**Enovis Project ID:** E200062

**Laboratory:** TestAmerica - North Canton

**Laboratory Submittal:** 32459-1

**Sample Name:** TP-71560-121113-SR-108

**Lab Sample ID:** 240324591

**Sample Date:** 12/11/2013

Analyte	Cas No.	Result	Report		Valid
			Limit	Units	
GC/MS SVOC					
EMSLC-625					
2-Methylethyl Phenol TIC - TIC	88-69-7	340	95	ug/l	NJ
3-(1,1-Dimethylethyl Phenol) TIC - TIC	585-34-2	2700	95	ug/l	NJ
3-Methylethyl Phenol TIC - TIC	618-45-1	290	95	ug/l	NJ
4-Methylethyl Phenol TIC - TIC	99-89-8	290	95	ug/l	NJ

# Analytical Results Summary

Enovis Project ID: E200062

Laboratory: TestAmerica - North Canton

Laboratory Submittal: 32459-1

Sample Name: TP-71560-121113-SR-108

Lab Sample ID: 240324591

Sample Date: 12/11/2013

Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier
<b>GC/MS SVOC</b>					
<u>EMSLC-625</u>					
2,4-Dimethylphenol	105-67-9	84	480	ug/l	J
2-Methylethyl Phenol TIC - TIC	88-69-7	340	95	ug/l	NJ
2-Methylphenol	95-48-7	43	480	ug/l	J
3 & 4 Methylphenol	65794-96-9	160	480	ug/l	J
3-(1,1-Dimethylethyl Phenol) TIC - TIC	585-34-2	2700	95	ug/l	NJ
3-Methylethyl Phenol TIC - TIC	618-45-1	290	95	ug/l	NJ
4-Methylethyl Phenol TIC - TIC	99-89-8	290	95	ug/l	NJ
Phenol	108-95-2	1500	480	ug/l	---
<b>Metals</b>					
<u>EMSLC-200.7</u>					
Molybdenum	7439-98-7	0.47	0.10	mg/l	---
<u>EMSLC-245.1</u>					
Mercury	7439-97-6	ND	0.00020	mg/l	---
<b>General Chemistry</b>					
<u>APHA-4500-NH3-F</u>					
Ammonia	7664-41-7	100	5.0	mg/l	---
<u>APHA-5210B</u>					
Carbonaceous Biochemical Oxygen Demand	E-1000	160	2.0	mg/l	---