General Motors LLC
Tonawanda Engine Plant
2995 River Road
Buffalo, NY 14207-1099

April 23, 2015

J.R. Smythe
Division of Water
NYS Dept. of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

Re: GM Powertrain Tonawanda Engine Plant
SPDES Permit NY0000574
1st Quarter 2015 Monitoring Well Results

Dear Mr. Smythe:

Per our current permit, PCBs are sampled quarterly in the monitoring wells and the regular parameters sampled semi-annually. Please find the analytical results for PCB samples collected during the first quarter of 2015. The full semi-annual report will be submitted in the second quarter.

Please call Casey Essary at 716-867-2530, if you have any questions.

"I certify under the 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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed 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 fines and imprisonment for knowing violations."

Sincerely,

Steven C. Finch
Plant Manager

Attachment

CC:
Andrea Skalski- NYSDEC, Buffalo
Brian Baker- NYSDEC, Albany

TRIMATRIX
LABORATORIES

April 13, 2015

GM - Tonawanda Engine Plant
Attn: Mr. Casey Essary
2995 River Road
Buffalo, NY 14207-1099

Project: Program 2 - Quarterly SPDES Wells

Dear Mr. Casey Essary,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

Work Order	Received	Description
1503402	03/30/2015	Laboratory Services

This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

ACLASS DoD-ELAP/ISO17025 (#ADE-1542); Arkansas DEP (#88-0730/13-049-0); Florida DEP (#E87622-24); Georgia EPD (#E87622-24); Illinois DEP (#200026/003329); Kansas DPH (#E-10302); Kentucky DEP (#0021); Louisiana DEP (#103068); Michigan DPH (#0034); Minnesota DPH (#491715); New York ELAP (#11776/48855); North Carolina DNRE (#659); Virginia DCLS (#460153/2592); Wisconsin DNR (#999472650); USDA Soil Import Permit (#P330-12-00236).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications and Project Technical Narrative sections of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice

Jennifer L. Rice
Project Chemist

5560 Corporate Exchange Court SE ♦ Grand Rapids, MI 49512 ♦ 616.975.4500 ♦ Fax 616.942.7463 ♦ www.trimatrixlabs.com

TRIMATRIX LABORATORIES

PROJECT TECHNICAL NARRATIVE(s)

Polychlorinated Biphenyls (PCBs) by EPA Method 608

Narrative: The RL for this analysis was elevated due to insufficient sample volume or weight received.

Analysis: USEPA-608

Sample/Analyte: 1503402-02 Monitoring Well 2
1503402-03 Monitoring Well 3

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TRIMATRIX LABORATORIES

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program.
No Qualification is required.

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1503402**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**Monitoring Well 1**	Sampled:	03/27/15 09:55		
Lab Sample ID:	**1503402-01**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	03/30/15 09:15		
Unit:	ug/L	Prepared:	03/30/15 12:08	By:	ALK
Dilution Factor:	1	Analyzed:	04/02/15 18:57	By:	MSZ
QC Batch:	1502850	Analytical Batch:	5D03019		

Polychlorinated Biphenyls (PCBs) by EPA Method 608

CAS Number	Analyte	Analytical Result	RL	MDL
12674-11-2	PCB-1016	0.10U	0.10	0.027
11104-28-2	PCB-1221	0.10U	0.10	0.050
11141-16-5	PCB-1232	0.10U	0.10	0.035
53469-21-9	PCB-1242	0.10U	0.10	0.018
12672-29-6	PCB-1248	0.10U	0.10	0.017
11097-69-1	PCB-1254	0.10U	0.10	0.040
11096-82-5	PCB-1260	0.10U	0.10	0.034

Surrogates:	*% Recovery*	*Control Limits*
Decachlorobiphenyl	*82*	*30-138*
Tetrachloro-m-xylene	*61*	*29-117*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1503402**
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services
Client Sample ID:	**Monitoring Well 2**	Sampled:	03/27/15 09:40
Lab Sample ID:	**1503402-02**	Sampled By:	P. Hagerty
Matrix:	Ground Water	Received:	03/30/15 09:15
Unit:	ug/L	Prepared:	03/30/15 12:08 By: ALK
Dilution Factor:	1	Analyzed:	04/07/15 14:32 By: MSZ
QC Batch:	1502850	Analytical Batch:	5D08007

Polychlorinated Biphenyls (PCBs) by EPA Method 608

CAS Number	Analyte	Analytical Result	RL	MDL
12674-11-2	PCB-1016	0.11U	0.11	0.029
11104-28-2	PCB-1221	0.11U	0.11	0.054
11141-16-5	PCB-1232	0.11U	0.11	0.038
53469-21-9	PCB-1242	0.11U	0.11	0.019
12672-29-6	PCB-1248	0.11U	0.11	0.019
11097-69-1	PCB-1254	0.11U	0.11	0.044
11096-82-5	PCB-1260	0.11U	0.11	0.037

Surrogates:	*% Recovery*	*Control Limits*
Decachlorobiphenyl	*94*	*30-138*
Tetrachloro-m-xylene	*66*	*29-117*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1503402**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**Monitoring Well 3**	Sampled:	03/27/15 09:20		
Lab Sample ID:	**1503402-03**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	03/30/15 09:15		
Unit:	ug/L	Prepared:	03/30/15 12:08	By:	ALK
Dilution Factor:	1	Analyzed:	04/02/15 19:52	By:	MSZ
QC Batch:	1502850	Analytical Batch:	5D03019		

Polychlorinated Biphenyls (PCBs) by EPA Method 608

CAS Number	Analyte	Analytical Result	RL	MDL
12674-11-2	PCB-1016	0.11U	0.11	0.029
11104-28-2	PCB-1221	0.11U	0.11	0.055
11141-16-5	PCB-1232	0.11U	0.11	0.038
53469-21-9	PCB-1242	0.11U	0.11	0.019
12672-29-6	PCB-1248	0.11U	0.11	0.019
11097-69-1	PCB-1254	0.11U	0.11	0.044
11096-82-5	PCB-1260	0.11U	0.11	0.037

Surrogates:	*% Recovery*	*Control Limits*
Decachlorobiphenyl	*84*	*30-138*
Tetrachloro-m-xylene	*63*	*29-117*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1503402**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**Monitoring Well 4**	Sampled:	03/27/15 10:15		
Lab Sample ID:	**1503402-04**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	03/30/15 09:15		
Unit:	ug/L	Prepared:	03/30/15 12:08	By:	ALK
Dilution Factor:	1	Analyzed:	04/02/15 21:14	By:	MSZ
QC Batch:	1502850	Analytical Batch:	5D03019		

Polychlorinated Biphenyls (PCBs) by EPA Method 608

CAS Number	Analyte	Analytical Result	RL	MDL
12674-11-2	PCB-1016	0.10U	0.10	0.027
11104-28-2	PCB-1221	0.10U	0.10	0.050
11141-16-5	PCB-1232	0.10U	0.10	0.035
53469-21-9	PCB-1242	0.10U	0.10	0.018
12672-29-6	PCB-1248	0.10U	0.10	0.017
11097-69-1	PCB-1254	0.10U	0.10	0.040
11096-82-5	PCB-1260	0.10U	0.10	0.034

Surrogates:	*% Recovery*	*Control Limits*
Decachlorobiphenyl	*90*	*30-138*
Tetrachloro-m-xylene	*70*	*29-117*

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QUALITY CONTROL REPORT

Polychlorinated Biphenyls (PCBs) by EPA Method 608

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
QC Batch: 1502850 608 Liquid/Liquid Extraction/USEPA-608									
Method Blank					Analyzed:	04/02/2015	By: MSZ		
Unit: ug/L					Analytical Batch:	5D03019			
PCB-1016			0.10 U			--		0.10	0.027
PCB-1221			0.10 U					0.10	0.050
PCB-1232			0.10 U					0.10	0.035
PCB-1242			0.10 U					0.10	0.018
PCB-1248			0.10 U					0.10	0.017
PCB-1254			0.10 U					0.10	0.040
PCB-1260			0.10 U			--		0.10	0.034
Surrogates:									
Decachlorobiphenyl				*89*	*30-138*				
Tetrachloro-m-xylene				*68*	*29-117*				
Laboratory Control Sample					Analyzed:	04/02/2015	By: MSZ		
Unit: ug/L					Analytical Batch:	5D03019			
PCB-1016		0.600	**0.554**	92	50-114	--		0.10	0.027
PCB-1260		0.600	**0.635**	106	8-127	--		0.10	0.034
Surrogates:									
Decachlorobiphenyl				*93*	*30-138*				
Tetrachloro-m-xylene				*70*	*29-117*				
Matrix Spike 1503402-04 Monitoring Well 4					Analyzed:	04/02/2015	By: MSZ		
Unit: ug/L					Analytical Batch:	5D03019			
PCB-1016	0.10 U	0.612	**0.578**	94	55-117	--		0.10	0.027
PCB-1260	0.10 U	0.612	**0.671**	110	46-132	--		0.10	0.034
Surrogates:									
Decachlorobiphenyl				*97*	*30-138*				
Tetrachloro-m-xylene				*76*	*29-117*				
Matrix Spike Duplicate 1503402-04 Monitoring Well 4					Analyzed:	04/02/2015	By: MSZ		
Unit: ug/L					Analytical Batch:	5D03019			
PCB-1016	0.11 U	0.638	**0.607**	95	55-117	5	20	0.11	0.028
PCB-1260	0.11 U	0.638	**0.691**	108	46-132	3	20	0.11	0.036
Surrogates:									
Decachlorobiphenyl				*97*	*30-138*				
Tetrachloro-m-xylene				*81*	*29-117*				

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Chain of Custody Record

COC No. 141242352

5560 Corporate Exchange Court SE, Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463 www.trimatrixlabs.com

Pg. 1 of 1

For Lab Use Only
Cart: 10
VOA Rack/Tray: —
Receipt Log No.: 9.2
Project Chemist: Jennifer Rice
Work Order No.: 152342

Client Name: GM - Tonawanda Engine Plant
Address: 2995 River Road
City, State Zip: Buffalo, NY 14207-1099
Phone: 716-879-5638 Fax 716-879-5425
Email: casey.essary@gm.com

Project Name: Program 2 - Qtly SPDES Wells
Client Project No. / P.O. No.:
Invoice To: ☑ Client ☐ Other (comments)
Contact/Report To: Casey Essary

Analyses Requested

Container Type (corresponds to Container Packing List): A

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Schedule	Matrix Code	Sample Number		Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	PCBs - 608	Field pH	Field Temp	Total	Sample Comments
		01	1	Monitoring Well 1	TM 0410	03/27/15	0755		X	W	2	7.81	11.9	2	Field pH/Temp:
		02	2	Monitoring Well 2	↓		0940		X	W	2	7.67	10.2	2	Field pH/Temp:
		03	3	Monitoring Well 3	↓		0920		X	W	2	7.50	10.7	2	Field pH/Temp:
		04	4	Monitoring Well 4	1349	↓	1015		X	W	2	7.32	9.7	2	Field pH/Temp:
			5												
			6												
			7												
			8												
			9												
			10												

Sampled By (print): Patrick J. Hegedy
Sampler's Signature: Patrick J. Hegedy
Company: Ecology and Environment

How Shipped? Hand ___ Carrier Fed Ex
Tracking No.:

Comments:

	Relinquished By	Date	Time	Received By	Date	Time
1	Patrick J. Hegedy	3/27/15	1400			
2						
3						

3. Received For Lab By: Date 3.30.15 Time 0911

ORIGINAL - LABORATORY COPY - SAMPLER

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: Gm Tonawanda
Receipt Record Page/Line #: 9.2
Work Order #: 1503402
New / Add To
Project Chemist: Sample #s

Recorded by (initials/date): WC 3.30.15
☑ Cooler ☐ Box ☐ Other
Qty Received: 2
Thermometer Used: ☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#_____)
☐ See Additional Cooler Information Form

Cooler #	Time	Custody Seals	Coolant Type	Coolant Location	Temp Blank Present	If Present, Temperature Blank Location is:
Tm 1349	0958	☑ None ☐ Present / Intact ☐ Present / Not Intact	☑ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	Dispersed / Top / Middle / Bottom	☐ Yes ☐ No	☐ Representative ☐ Not Representative
Tm 0410	1000	☑ None ☐ Present / Intact ☐ Present / Not Intact	☑ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	Dispersed / Top / Middle / Bottom	☐ Yes ☐ No	☐ Representative ☐ Not Representative
		☐ None ☐ Present / Intact ☐ Present / Not Intact	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	Dispersed / Top / Middle / Bottom	☐ Yes ☐ No	☐ Representative ☐ Not Representative
		☐ None ☐ Present / Intact ☐ Present / Not Intact	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	Dispersed / Top / Middle / Bottom	☐ Yes ☐ No	☐ Representative ☐ Not Representative

	Observed °C	Correction Factor °C	Actual °C
Temp Blank			
Sample 1	4.7	-	4.7
Sample 2	4.7	-	4.7
Sample 3	5.4	-	5.4
3 Sample Average °C:			4.9

	Observed °C	Correction Factor °C	Actual °C
Temp Blank			
Sample 1	2.9	-	2.9
Sample 2	2.8	-	2.8
Sample 3	3.2	-	3.2
3 Sample Average °C:			3.0

	Observed °C	Correction Factor °C	Actual °C
Temp Blank			
Sample 1			
Sample 2			
Sample 3			
3 Sample Average °C:			

	Observed °C	Correction Factor °C	Actual °C
Temp Blank			
Sample 1			
Sample 2			
Sample 3			
3 Sample Average °C:			

☐ Cooler ID on COC?	☐ Cooler ID on COC?	☐ Cooler ID on COC?	☐ Cooler ID on COC?
☐ VOC Trip Blank received?	☐ VOC Trip Blank received?	☐ VOC Trip Blank received?	☐ VOC Trip Blank received?

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

Paperwork Received

Yes / No
- ☐ ☐ Chain of Custody record(s)? If No, Initiated By _____
- ☐ ☐ Received for Lab Signed/Date/Time?
- ☐ ☐ Shipping document?
- ☐ ☐ Other _____

COC Information

☑ TriMatrix COC ☐ Other_____

COC ID Numbers:

Check COC for Accuracy

Yes / No
- ☐ Analysis Requested?
- ☐ Sample ID matches COC?
- ☐ Sample Date and Time matches COC?
- Container type completed on COC?
- ☐ All container types indicated are received?

Check Sample Preservation

N/A / Yes / No
- ☐ ☐ Temperature Blank OR average sample temperature, ≥6° C?
- ☐ ☐ If either is ≥6° C, was thermal preservation required?
- ☐ ☐ If "Yes", Project Chemist Approval Initials._____
- ☐ ☐ If "Yes" Completed Non Con Cooler - Cont Inventory Form?
- ☐ ☐ Completed Sample Preservation Verification Form?
- ☐ ☐ Samples chemically preserved correctly?
- ☐ ☐ If "No", added orange tag?
- ☐ ☐ Received pre-preserved VOC soils?
  - ☐ MeOH ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

- ☐ Bacteriological
- ☐ Air Bags
- ☐ EnCores / Methanol Pre-Preserved
- ☐ Formaldehyde/Aldehyde
- ☐ Green-tagged containers
- ☐ Yellow/White-tagged 1 L ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
- ☑ NONE RECEIVED
- ☐ RECEIVED, COCs TO LAB(S)

Sample Condition Summary

N/A / Yes / No
- ☐ ☐ Broken containers/lids?
- ☐ ☐ Missing or incomplete labels?
- ☐ ☐ Illegible information on labels?
- ☐ ☐ Low volume received?
- ☐ ☐ Inappropriate or non-TriMatrix containers received?
- ☐ ☐ VOC vials / TOX containers have headspace?
- ☐ ☐ Extra sample locations / containers not listed on COC?

Notes

☐ Trip Blank received ☐ Trip Blank not listed on COC

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
3-30-15 0915	3-30-15 1015	(Yes) / No