General Motors LLC
CET Tonawanda Site
2995 River Road
Buffalo, NY 14207-1099

May 22, 2014

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
2nd Quarter 2014 Monitoring Well Results

Dear Mr. Smythe:

Attached please find the analytical results from the testing of monitoring wells for the 2nd Quarter 2014.

Please call Miguel A. Antonetti, PhD at 716-867-2129, 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

May 01, 2014

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
1404256	04/16/2014	Laboratory Services
1404321	04/18/2014	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); Texas CEQ (#T104704495-14-4); 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
Project Chemist

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TRIMATRIX LABORATORIES

PROJECT TECHNICAL NARRATIVE(s)

Semivolatile Organic Compounds by EPA Method 8270C

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

Analysis: USEPA-8270C

1403460-MS1
1403460-MSD1
1404321-01 MW-1
1404321-02 MW-2
1404321-03 MW-3
1404321-04 MW-4

TRIMATRIX LABORATORIES

PROJECT TECHNICAL NARRATIVE(s)

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Narrative: The MS and/or MSD recovery was outside the laboratory or method control limit. The non-spiked sample concentration for this analyte was greater than or equal to 4 times the spiked amount and cannot be used to evaluate matrix quality control.

Analysis: SM 4500-Cl E-2011

Sample/Analyte: 1404256-01 Monitoring Well #1 Chloride

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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:	**1404256**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**Monitoring Well #1**	Sampled:	4/15/14 12:05		
Lab Sample ID:	**1404256-01**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/16/14 8:30		
Unit:	ug/L	Prepared:	4/18/14 9:00	By:	BAG
Dilution Factor:	1	Analyzed:	4/18/14 16:53	By:	BAG
QC Batch:	1403481	Analytical Batch:	4D21009		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	*95*	*85-118*
1,2-Dichloroethane-d4	*103*	*87-122*
Toluene-d8	*94*	*85-113*
4-Bromofluorobenzene	*100*	*82-110*

TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404256**
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services
Client Sample ID:	**Monitoring Well #1**	Sampled:	4/15/14 12:05
Lab Sample ID:	**1404256-01**	Sampled By:	P. Hagerty
Matrix:	Ground Water	Received:	4/16/14 8:30

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chromium	**0.12**	0.050	mg/L	1	USEPA-6010C	04/21/14 13:13	CKD	1403292
Iron	**1.5**	0.020	mg/L	1	USEPA-6010C	04/21/14 14:36	CKD	1403292

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404256**
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services
Client Sample ID:	**Monitoring Well #1**	Sampled:	4/15/14 12:05
Lab Sample ID:	**1404256-01**	Sampled By:	P. Hagerty
Matrix:	Ground Water	Received:	4/16/14 8:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**3000**	50	mg/L	50	SM 4500-Cl E-2011	04/24/14 09:30	LMA	1403607
Conductivity @ 25° C	**9325**	5	umhos/cm	1	SM 2510 B-2011	04/18/14 14:10	HLB	1403413
Residue, Dissolved @ 180° C	**6290**	100	mg/L	1	SM 2540 C-2011	04/17/14 15:30	WAH	1403384
Sulfate	**85**	25	mg/L	5	ASTM D516-90 (07)	04/23/14 10:56	LMA	1403585
Turbidity	**24**	1.0	NTU	1	SM 2130 B-2011	04/16/14 12:52	CAC	1403302

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404256**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**Monitoring Well #2**	Sampled:	4/15/14 11:40		
Lab Sample ID:	**1404256-02**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/16/14 8:30		
Unit:	ug/L	Prepared:	4/18/14 9:00	By:	BAG
Dilution Factor:	1	Analyzed:	4/18/14 17:21	By:	BAG
QC Batch:	1403481	Analytical Batch:	4D21009		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	*96*	*85-118*
1,2-Dichloroethane-d4	*103*	*87-122*
Toluene-d8	*93*	*85-113*
4-Bromofluorobenzene	*99*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404256**
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services
Client Sample ID:	**Monitoring Well #2**	Sampled:	4/15/14 11:40
Lab Sample ID:	**1404256-02**	Sampled By:	P. Hagerty
Matrix:	Ground Water	Received:	4/16/14 8:30

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chromium	<0.050	0.050	mg/L	1	USEPA-6010C	04/21/14 13:30	CKD	1403292
Iron	**4.3**	0.020	mg/L	1	USEPA-6010C	04/21/14 14:56	CKD	1403292

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404256**
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services
Client Sample ID:	**Monitoring Well #2**	Sampled:	4/15/14 11:40
Lab Sample ID:	**1404256-02**	Sampled By:	P. Hagerty
Matrix:	Ground Water	Received:	4/16/14 8:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**1100**	25	mg/L	25	SM 4500-Cl E-2011	04/24/14 09:03	LMA	1403607
Conductivity @ 25° C	**5460**	5	umhos/cm	1	SM 2510 B-2011	04/18/14 14:10	HLB	1403413
Residue, Dissolved @ 180° C	**3650**	50.0	mg/L	1	SM 2540 C-2011	04/17/14 15:30	WAH	1403384
Sulfate	**1200**	250	mg/L	50	ASTM D516-90 (07)	04/23/14 10:25	LMA	1403585
Turbidity	**49**	1.0	NTU	1	SM 2130 B-2011	04/16/14 12:52	CAC	1403302

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404256**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**Monitoring Well #3**	Sampled:	4/15/14 11:25		
Lab Sample ID:	**1404256-03**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/16/14 8:30		
Unit:	ug/L	Prepared:	4/18/14 9:00	By:	BAG
Dilution Factor:	1	Analyzed:	4/18/14 17:48	By:	BAG
QC Batch:	1403481	Analytical Batch:	4D21009		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	*96*	*85-118*
1,2-Dichloroethane-d4	*104*	*87-122*
Toluene-d8	*94*	*85-113*
4-Bromofluorobenzene	*100*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404256**
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services
Client Sample ID:	**Monitoring Well #3**	Sampled:	4/15/14 11:25
Lab Sample ID:	**1404256-03**	Sampled By:	P. Hagerty
Matrix:	Ground Water	Received:	4/16/14 8:30

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chromium	<0.050	0.050	mg/L	1	USEPA-6010C	04/21/14 13:34	CKD	1403292
Iron	**1.6**	0.020	mg/L	1	USEPA-6010C	04/21/14 15:00	CKD	1403292

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404256**
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services
Client Sample ID:	**Monitoring Well #3**	Sampled:	4/15/14 11:25
Lab Sample ID:	**1404256-03**	Sampled By:	P. Hagerty
Matrix:	Ground Water	Received:	4/16/14 8:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**360**	5.0	mg/L	5	SM 4500-Cl E-2011	04/24/14 09:03	LMA	1403607
Residue, Dissolved @ 180° C	**2380**	50.0	mg/L	1	SM 2540 C-2011	04/17/14 15:30	WAH	1403384
Conductivity @ 25° C	**3262**	5	umhos/cm	1	SM 2510 B-2011	04/18/14 14:10	HLB	1403413
Sulfate	**790**	120	mg/L	25	ASTM D516-90 (07)	04/23/14 10:25	LMA	1403585
Turbidity	**95**	1.0	NTU	1	SM 2130 B-2011	04/16/14 12:52	CAC	1403302

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404256**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**Monitoring Well #4**	Sampled:	4/15/14 11:15		
Lab Sample ID:	**1404256-04**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/16/14 8:30		
Unit:	ug/L	Prepared:	4/18/14 9:00	By:	BAG
Dilution Factor:	1	Analyzed:	4/18/14 18:15	By:	BAG
QC Batch:	1403481	Analytical Batch:	4D21009		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	*97*	*85-118*
1,2-Dichloroethane-d4	*104*	*87-122*
Toluene-d8	*95*	*85-113*
4-Bromofluorobenzene	*100*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404256**
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services
Client Sample ID:	**Monitoring Well #4**	Sampled:	4/15/14 11:15
Lab Sample ID:	**1404256-04**	Sampled By:	P. Hagerty
Matrix:	Ground Water	Received:	4/16/14 8:30

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chromium	**0.11**	0.050	mg/L	1	USEPA-6010C	04/21/14 13:37	CKD	1403292
Iron	**3.8**	0.020	mg/L	1	USEPA-6010C	04/21/14 15:03	CKD	1403292

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404256**
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services
Client Sample ID:	**Monitoring Well #4**	Sampled:	4/15/14 11:15
Lab Sample ID:	**1404256-04**	Sampled By:	P. Hagerty
Matrix:	Ground Water	Received:	4/16/14 8:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**770**	25	mg/L	25	SM 4500-Cl E-2011	04/24/14 09:03	LMA	1403607
Residue, Dissolved @ 180° C	**2280**	50.0	mg/L	1	SM 2540 C-2011	04/17/14 15:30	WAH	1403384
Conductivity @ 25° C	**3804**	5	umhos/cm	1	SM 2510 B-2011	04/18/14 14:10	HLB	1403413
Sulfate	**450**	120	mg/L	25	ASTM D516-90 (07)	04/23/14 10:29	LMA	1403585
Turbidity	**37**	1.0	NTU	1	SM 2130 B-2011	04/16/14 12:52	CAC	1403302

TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404321**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**MW-1**	Sampled:	4/17/14 12:05		
Lab Sample ID:	**1404321-01**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/18/14 8:30		
Unit:	ug/L	Prepared:	4/21/14 7:21	By:	JTS
Dilution Factor:	1	Analyzed:	4/24/14 20:40	By:	DWJ
QC Batch:	1403460	Analytical Batch:	4D25031		

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL
85-68-7	Butyl Benzyl Phthalate	<11	11
84-74-2	Di-n-butyl Phthalate	<11	11
117-81-7	Bis(2-ethylhexyl) Phthalate	<11	11
108-95-2	Phenol	<11	11
129-00-0	Pyrene	<11	11

Surrogates:	*% Recovery*	*Control Limits*
2-Fluorophenol	*47*	*20-70*
Phenol-d6	*34*	*18-45*
Nitrobenzene-d5	*75*	*31-123*
2-Fluorobiphenyl	*75*	*25-113*
2,4,6-Tribromophenol	*74*	*30-121*
o-Terphenyl	*85*	*42-125*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404321**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**MW-2**	Sampled:	4/17/14 11:40		
Lab Sample ID:	**1404321-02**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/18/14 8:30		
Unit:	ug/L	Prepared:	4/21/14 7:21	By:	JTS
Dilution Factor:	1	Analyzed:	4/24/14 22:25	By:	DWJ
QC Batch:	1403460	Analytical Batch:	4D25031		

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL
85-68-7	Butyl Benzyl Phthalate	<11	11
84-74-2	Di-n-butyl Phthalate	<11	11
117-81-7	Bis(2-ethylhexyl) Phthalate	<11	11
108-95-2	Phenol	<11	11
129-00-0	Pyrene	<11	11

Surrogates:	*% Recovery*	*Control Limits*
2-Fluorophenol	*55*	*20-70*
Phenol-d6	*32*	*18-45*
Nitrobenzene-d5	*72*	*31-123*
2-Fluorobiphenyl	*75*	*25-113*
2,4,6-Tribromophenol	*69*	*30-121*
o-Terphenyl	*84*	*42-125*

TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404321**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**MW-3**	Sampled:	4/17/14 11:25		
Lab Sample ID:	**1404321-03**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/18/14 8:30		
Unit:	ug/L	Prepared:	4/21/14 7:21	By:	JTS
Dilution Factor:	1	Analyzed:	4/24/14 23:00	By:	DWJ
QC Batch:	1403460	Analytical Batch:	4D25031		

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL
85-68-7	Butyl Benzyl Phthalate	<11	11
84-74-2	Di-n-butyl Phthalate	<11	11
117-81-7	Bis(2-ethylhexyl) Phthalate	<11	11
108-95-2	Phenol	<11	11
129-00-0	Pyrene	<11	11

Surrogates:	*% Recovery*	*Control Limits*
2-Fluorophenol	*35*	*20-70*
Phenol-d6	*23*	*18-45*
Nitrobenzene-d5	*73*	*31-123*
2-Fluorobiphenyl	*75*	*25-113*
2,4,6-Tribromophenol	*38*	*30-121*
o-Terphenyl	*86*	*42-125*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404321**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**MW-4**	Sampled:	4/17/14 11:15		
Lab Sample ID:	**1404321-04**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/18/14 8:30		
Unit:	ug/L	Prepared:	4/21/14 7:21	By:	JTS
Dilution Factor:	1	Analyzed:	4/24/14 23:35	By:	DWJ
QC Batch:	1403460	Analytical Batch:	4D25031		

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL
85-68-7	Butyl Benzyl Phthalate	<11	11
84-74-2	Di-n-butyl Phthalate	<11	11
117-81-7	Bis(2-ethylhexyl) Phthalate	<11	11
108-95-2	Phenol	<11	11
129-00-0	Pyrene	<11	11

Surrogates:	*% Recovery*	*Control Limits*
2-Fluorophenol	*44*	*20-70*
Phenol-d6	*27*	*18-45*
Nitrobenzene-d5	*72*	*31-123*
2-Fluorobiphenyl	*77*	*25-113*
2,4,6-Tribromophenol	*51*	*30-121*
o-Terphenyl	*85*	*42-125*

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 1403481 5030B Aqueous Purge & Trap/USEPA-8260B								
Method Blank					Analyzed:		04/18/2014	By: BAG
Unit: ug/L					Analytical Batch:		4D21009	
Benzene			<1.0					1.0
Toluene			<1.0					1.0
Surrogates:								
Dibromofluoromethane				*98*	*85-118*			
1,2-Dichloroethane-d4				*104*	*87-122*			
Toluene-d8				*95*	*85-113*			
4-Bromofluorobenzene				*98*	*82-110*			
Laboratory Control Sample					Analyzed:		04/18/2014	By: BAG
Unit: ug/L					Analytical Batch:		4D21009	
Benzene		40.0	**39.1**	98	84-119	--		1.0
Toluene		40.0	**38.4**	96	85-118	--		1.0
Surrogates:								
Dibromofluoromethane				*96*	*85-118*			
1,2-Dichloroethane-d4				*99*	*87-122*			
Toluene-d8				*95*	*85-113*			
4-Bromofluorobenzene				*99*	*82-110*			
Matrix Spike 1404256-01 Monitoring Well #1					Analyzed:		04/18/2014	By: BAG
Unit: ug/L					Analytical Batch:		4D21009	
Benzene	<1.0	40.0	**40.7**	102	80-129	--		1.0
Toluene	<1.0	40.0	**40.5**	101	79-129	--		1.0
Surrogates:								
Dibromofluoromethane				*97*	*85-118*			
1,2-Dichloroethane-d4				*101*	*87-122*			
Toluene-d8				*96*	*85-113*			
4-Bromofluorobenzene				*100*	*82-110*			

Continued on next page

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 1403481 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B								
Matrix Spike Duplicate 1404256-01 Monitoring Well #1					Analyzed:	04/18/2014		By: BAG
Unit: ug/L					Analytical Batch:	4D21009		
Benzene	<1.0	40.0	**40.6**	102	80-129	0.1	9	1.0
Toluene	<1.0	40.0	**40.2**	100	79-129	0.7	9	1.0
Surrogates:								
Dibromofluoromethane				*97*	*85-118*			
1,2-Dichloroethane-d4				*102*	*87-122*			
Toluene-d8				*96*	*85-113*			
4-Bromofluorobenzene				*99*	*82-110*			

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 1403460 3510C Liquid-Liquid Extraction/USEPA-8270C								
Method Blank					Analyzed:	04/24/2014		By: DWJ
Unit: ug/L					Analytical Batch:	4D25031		
Butyl Benzyl Phthalate			<10					10
Di-n-butyl Phthalate			<10					10
Bis(2-ethylhexyl) Phthalate			<10					10
Phenol			<10					10
Pyrene			<10					10
Surrogates:								
2-Fluorophenol				*55*	*20-70*			
Phenol-d6				*31*	*18-45*			
Nitrobenzene-d5				*76*	*31-123*			
2-Fluorobiphenyl				*82*	*25-113*			
2,4,6-Tribromophenol				*70*	*30-121*			
o-Terphenyl				*88*	*42-125*			
Laboratory Control Sample					Analyzed:	04/24/2014		By: DWJ
Unit: ug/L					Analytical Batch:	4D25031		
Butyl Benzyl Phthalate		100	**84.5**	84	58-141	--		10
Di-n-butyl Phthalate		100	**78.1**	78	58-145	--		10
Bis(2-ethylhexyl) Phthalate		100	**84.4**	84	60-136	--		10
Phenol		100	**29.9**	30	22-60	--		10
Pyrene		100	**85.9**	86	60-134	--		10
Matrix Spike 1404321-01 MW-1					Analyzed:	04/24/2014		By: DWJ
Unit: ug/L					Analytical Batch:	4D25031		
Butyl Benzyl Phthalate	<11	112	**96.2**	86	44-149	--		11
Di-n-butyl Phthalate	<11	112	**86.6**	77	51-145	--		11
Bis(2-ethylhexyl) Phthalate	<11	112	**95.1**	85	50-144	--		11
Phenol	<11	112	**31.7**	28	22-52	--		11
Pyrene	<11	112	**94.7**	84	55-134	--		11
Matrix Spike Duplicate 1404321-01 MW-1					Analyzed:	04/24/2014		By: DWJ
Unit: ug/L					Analytical Batch:	4D25031		
Butyl Benzyl Phthalate	<12	116	**99.5**	86	44-149	3	15	12

Continued on next page

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 1403460 (Continued) 3510C Liquid-Liquid Extraction/USEPA-8270C								
Matrix Spike Duplicate (Continued) 1404321-01 MW-1					Analyzed:	04/24/2014		By: DWJ
Unit: ug/L					Analytical Batch:	4D25031		
Di-n-butyl Phthalate	<12	116	**87.7**	75	51-145	1	16	12
Bis(2-ethylhexyl) Phthalate	<12	116	**97.8**	84	50-144	3	16	12
Phenol	<12	116	**37.2**	32	22-52	16	19	12
Pyrene	<12	116	**98.7**	85	55-134	4	16	12

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Total Metals by EPA 6000/7000 Series Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Analyte: **Chromium**/USEPA-6010C									
QC Batch: 1403292 (3010A Digestion)						Analyzed: 04/21/2014			By: CKD
Method Blank			<0.050	mg/L					0.050
Laboratory Control Sample		0.400	**0.401**	mg/L	100	80-120			0.050
1404256-01 [Monitoring Well #1]									
Matrix Spike	0.121	0.400	**0.484**	mg/L	91	75-125			0.050
Matrix Spike Duplicate	0.121	0.400	**0.496**	mg/L	94	75-125	2	20	0.050
Analyte: **Iron**/USEPA-6010C									
QC Batch: 1403292 (3010A Digestion)						Analyzed: 04/21/2014			By: CKD
Method Blank			<0.020	mg/L					0.020
Laboratory Control Sample		0.400	**0.417**	mg/L	104	80-120			0.020
1404256-01 [Monitoring Well #1]									
Matrix Spike	1.48	0.400	**1.80**	mg/L	80	75-125			0.020
Matrix Spike Duplicate	1.48	0.400	**1.93**	mg/L	111	75-125	7	20	0.020

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Analyte: Chloride/SM 4500-Cl E-2011									
QC Batch: 1403607 (General Inorganic Prep)						Analyzed: 04/24/2014			By: LMA
Method Blank			<1.0	mg/L					1.0
Laboratory Control Sample		50.0	**50.3**	mg/L	101	90-106			1.0
1404256-01 [Monitoring Well #1]									
Matrix Spike	3000	50.0	**3210**	mg/L	**413**	72-123			50
Matrix Spike Duplicate	3000	50.0	**3040**	mg/L	87	72-123	5	20	50
Analyte: Conductivity @ 25° C/SM 2510 B-2011									
QC Batch: 1403413 (Method Specific Preparation)						Analyzed: 04/18/2014			By: HLB
Method Blank			<5	umhos/cm					5
Laboratory Control Sample		12900	**12680**	umhos/cm	98	90-110			
Laboratory Control Sample		1410	**1392**	umhos/cm	99	90-110			
1404256-01 [Monitoring Well #1]									
Duplicate	9325		**9203**	umhos/cm			1	5	5
Analyte: Residue, Dissolved @ 180° C/SM 2540 C-2011									
QC Batch: 1403384 (General Inorganic Prep)						Analyzed: 04/17/2014			By: WAH
Method Blank			<50.0	mg/L					50.0
Laboratory Control Sample		200	**220**	mg/L	110	85-115			50.0
1404256-01 [Monitoring Well #1]									
Duplicate	6290		**6540**	mg/L			4	5	100
Analyte: Sulfate/ASTM D516-90 (07)									
QC Batch: 1403585 (General Inorganic Prep)						Analyzed: 04/23/2014			By: LMA
Method Blank			<5.0	mg/L					5.0
Laboratory Control Sample		20.0	**20.2**	mg/L	101	88-112			5.0
1404256-01 [Monitoring Well #1]									
Matrix Spike	85.4	20.0	**105**	mg/L	100	61-156			25
Matrix Spike Duplicate	85.4	20.0	**106**	mg/L	103	61-156	0.5	20	25
Analyte: Turbidity/SM 2130 B-2011									
QC Batch: 1403302 (Method Specific Preparation)						Analyzed: 04/16/2014			By: CAC
Method Blank			<1.0	NTU					1.0

Continued on next page

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Analyte: **Turbidity**/SM 2130 B-2011 (Continued)									
QC Batch: 1403302 (Continued) (Method Specific Preparation)						Analyzed: 04/16/2014			By: CAC
Laboratory Control Sample		20.0	**20.2**	NTU	101	95-105			1.0
1404256-01 [Monitoring Well #1]									
Duplicate	24.5		**24.2**	NTU			1	20	1.0

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TRIMATRIX LABORATORIES

Chain of Custody Record

COC No. **140235243**

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Phone (616) 975-4500 Fax (616) 942-7463 www.trimatrixlabs.com

Pg. 1 of 1

For Lab Use Only
Cart: LO
VOA Rack/Tray: 50 TG
Receipt Log No.: 03-L
Project Chemist: Jennifer Rice
Work Order No.: 140250

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

	D	A	A	B							
	Benzene, Toluene - 8021	SVOCs - 8270, PCBs - 608	Cond, Turb, Cl, SO4, TDS	Total Metals: Cr, Fe						Field pH	Field Temp
Container Type (corresponds to Container Packing List)	1p	2	3	6							

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									Total	Sample Comments
		01	1	Monitoring Well 1	TM 3241	04/15/14	1205		X	W	2	3	1	1			7.14	10.8	7	Field pH/Temp:
		02	2	Monitoring Well 2			1140		X	W	2	3	1	1			7.13	10.2	7	Field pH/Temp:
		03	3	Monitoring Well 3			1125		X	W	2	3	1	1			7.12	11.9	7	Field pH/Temp:
		04	4	Monitoring Well 4			1115		X	W	2	3	1	1			7.29	12.9	7	Field pH/Temp:
			5																	
			6																	
			7																	
			8																	
			9																	
			10																	

Sampled By (print): PATRICK J HAGERTY
Sampler's Signature: Patrick J Hagerty
Company: Alliance

How Shipped? Hand ___ Carrier FedEx
Tracking No.:

1. Relinquished By: Patrick J Hagerty Date: 04/15/14 Time: 1555
1. Received By: Date: Time:

2. Relinquished By: Date: Time:
2. Received By: Date: Time:

3. Relinquished By: Date: Time:
3. Received For Lab By: Date: Time:

Comments: Container Type 2 shipping later

ORIGINAL - LABORATORY COPY - SAMPLER

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: Gm Tonawanda
Receipt Record Page/Line #: 9-4
Work Order #: 1404256
New / Add To
Project Chemist: Sample #s

Received by (initials/date): WC 4.16.14
Cooler ☑ Box ☐ Other ☐ Qty Received: 1
Thermometer used: R Gun (#202) ☑ Digital Thermometer (#54) ☐ Other (#_____) ☐
See Additional Cooler Information Form ☐

Cooler # / Time	Cooler # / Time	Cooler # / Time	Cooler # / Time
Tm 3241 0905			
Custody Seals:	**Custody Seals:**	**Custody Seals:**	**Custody Seals:**
☑ None	☐ None	☐ None	☐ None
☐ Present / Intact	☐ Present / Intact	☐ Present / Intact	☐ Present / Intact
☐ Present / Not Intact	☐ Present / Not Intact	☐ Present / Not Intact	☐ Present / Not Intact
Coolant Location:	**Coolant Location**	**Coolant Location:**	**Coolant Location**
(Dispersed) / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom
Coolant/Temperature Taken Via:	**Coolant/Temperature Taken Via:**	**Coolant/Temperature Taken Via:**	**Coolant/Temperature Taken Via:**
☑ Loose Ice / Avg 2-3 containers	☐ Loose Ice / Avg 2-3 containers	☐ Loose Ice / Avg 2-3 containers	☐ Loose Ice / Avg 2-3 containers
☐ Bagged Ice / Avg 2-3 containers	☐ Bagged Ice / Avg 2-3 containers	☐ Bagged Ice / Avg 2-3 containers	☐ Bagged Ice / Avg 2-3 containers
☐ Blue Ice / Avg 2-3 containers	☐ Blue Ice / Avg 2-3 containers	☐ Blue Ice / Avg 2-3 containers	☐ Blue Ice / Avg 2-3 containers
☐ None / Avg 2-3 containers	☐ None / Avg 2-3 containers	☐ None / Avg 2-3 containers	☐ None / Avg 2-3 containers
Alternate Temperature Taken Via:	**Alternate Temperature Taken Via:**	**Alternate Temperature Taken Via:**	**Alternate Temperature Taken Via:**
☐ Temperature Blank (TB)	☐ Temperature Blank (TB)	☐ Temperature Blank (TB)	☐ Temperature Blank (TB)
☐ 1 Container	☐ 1 Container	☐ 1 Container	☐ 1 Container
Recorded °C / Correction Factor °C / Actual °C	Recorded °C / Correction Factor °C / Actual °C	Recorded °C / Correction Factor °C / Actual °C	Recorded °C / Correction Factor °C / Actual °C
Temp Blank:	Temp Blank:	Temp Blank:	Temp Blank:
TB location: Representative / Not Representative	TB location: Representative / Not Representative	TB location: Representative / Not Representative	TB location: Representative / Not Representative
1 3.2 - 3.2	1	1	1
2 4.3 - 4.3	2	2	2
3 2.9 - 2.9	3	3	3
Average °C: 3.5	Average °C	Average °C	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: 140235243

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?

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?

Check Sample Preservation

N/A	Yes	No	
	☐	☐	Average sample temperature ≤6° C?
☐	☐	☐	Was thermal preservation required?
☐	☐		If "No", 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 ☐ $NaHSO_4$

Check for Short Hold-Time Prep/Analyses

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

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

Notes

☐ Trip Blank received ☑ Trip Blank not listed on COC

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
4.16.14 0830	4.16.14 0910	(Yes) / No

TRIMATRIX LABORATORIES — SAMPLE PRESERVATION VERIFICATION FORM

page 1 of 1

Client: Grn Tonawanda	Work Order #: 1404256
Receipt Log #: 9.4	Completed By (initials/date): WC 4.10.14
	Project Chemist:

COC ID #: 140235243

Adjusted by: _____ Date: _____

DO NOT ADJUST pH FOR THESE CONTAINER TYPES

Ph Strip Lot #: ☑ HC389101 ☐ _____

Container Type	5 / 23	4	13		3	6	15	
Tag Color	L1 Blue	Blue	Brown		Green	Red	Red Stripe	
Preservative	NaOH	H_2SO_4	H_2SO_4		None	HNO_3	HNO_3	
Expected pH	>12	<2	<2		6-8	<2	<2	
COC Line #1					✓	✓		
COC Line #2					✓	✓		
COC Line #3					✓	✓		
COC Line #4					✓	✓		
COC Line #5								
COC Line #6								
COC Line #7								
COC Line #8								
COC Line #9								
COC Line #10								

Comments

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 3, 6, and 15

COC ID #

Adjusted by: _____ Date: _____

DO NOT ADJUST pH FOR THESE CONTAINER TYPES

Container Type	5 / 23	4	13		3	6	15	
Tag Color	L1 Blue	Blue	Brown		Green	Red	Red Stripe	
Preservative	NaOH	H_2SO_4	H_2SO_4		None	HNO_3	HNO_3	
Expected pH	>12	<2	<2		6-8	<2	<2	
COC Line #1								
COC Line #2								
COC Line #3								
COC Line #4								
COC Line #5								
COC Line #6								
COC Line #7								
COC Line #8								
COC Line #9								
COC Line #10								

Comments

Container Size (mL)	Original Vol. of Preservative (mL)
Container Type 5	NaOH
500	2.5
1000	5.0
Container Type 4	H_2SO_4
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H_2SO_4
500	2.5

TRIMATRIX LABORATORIES

Chain of Custody Record

COC No. 140235243

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: 11
VOA Rack/Tray:
Receipt Log No: 13-7
Project Chemist: Jennifer Rice
Work Order No: 140432

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

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	Container Type 1	2	3	4	D Benzene, Toluene - 8021	A SVOCs - 8270, PCBs - 608	A Cond, Turb, Cl, SO4, TDS	B Total Metals: Cr, Fe	Field pH	Field Temp	Total	Sample Comments
05		01	1	Monitoring Well 1	TM 3241	4/17/14	1205		X	W	2	3	1	1					7.14	10.8	7	Field pH/Temp:
		02	2	Monitoring Well 2		4/17	1140		X	W	2	3	1	1					7.33	10.2	7	Field pH/Temp:
		03	3	Monitoring Well 3			1125		X	W	2	3	1	1					7.72	11.9	7	Field pH/Temp:
		04	4	Monitoring Well 4			1105		X	W	2	3	1	1					7.59	12.9	7	Field pH/Temp:
			5																			
			6	TM 3082 6-1																		
			7	2-2																		
			8	TM 1349 1-2		4/17/14																
			9	2-3																		
			10	TM 3039 1-3 3-4																		

Sampled By (print): Patrick J Hegarty
Sampler's Signature: Patrick J Hegarty
Company: Arcadis

How Shipped? Hand ___ Carrier FedEx
Tracking No.:

Comments: Container Type 2 shipping later

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Patrick J Hegarty	04/18/14	1505						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						[signature]	4/18/14	08:

ORIGINAL - LABORATORY COPY - SAMPLER

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: GM Tonawanda | Work Order #: 1404321
Receipt Record Page/Line #: | New / Add To Project Chemist: | Sample #s:

Received by (initials/date): LK 4/18/14

☑ Cooler ☐ Box ☐ Other ____ | Qty Received: 2 | Thermometer Used: ☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#____) | ☐ See Additional Cooler Information Form

Cooler # / Time	TM3030 1011	TM3082 1019		
Custody Seals:	☑ None ☐ Present / Intact ☐ Present / Not Intact	☑ None ☐ Present / Intact ☐ Present / Not Intact	☐ None ☐ Present / Intact ☐ Present / Not Intact	☐ None ☐ Present / Intact ☐ Present / Not Intact
Coolant Location:	(Dispersed) / Top / Middle / Bottom	(Dispersed) / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom
Coolant/Temperature Taken Via:	☑ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers	☑ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers	☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers	☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers
Alternate Temperature Taken Via:	☐ Temperature Blank (TB) ☐ 1 Container	☐ Temperature Blank (TB) ☐ 1 Container	☐ Temperature Blank (TB) ☐ 1 Container	☐ Temperature Blank (TB) ☐ 1 Container
Recorded °C / Correction Factor °C / Actual °C	Temp Blank:	Temp Blank:	Temp Blank:	Temp Blank:
TB Location: Representative / Not Representative	1: 8.6 — 8.6 2: 8.6 — 8.6 3: 7.4 — 7.4 Average °C: 8.2	1: 4.4 — 4.4 2: 4.7 — 4.7 3: 7.4 — 7.4 Average °C: 7.0	1: 2: 3: Average °C:	1: 2: 3: Average °C:
☐ Cooler ID on COC?	☐	☐	☐	☐
☐ 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	
	☐	☑	Average sample temperature ≤6° C?
☑	☐	☐	Was thermal preservation required?
☑	☐		If "No", 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 1L 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?
4/18/14 0830	4/18/14 1019	Yes / (No)

TRIMATRIX LABORATORIES

May 01, 2014

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
1404321	04/18/2014	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); Texas CEQ (#T104704495-14-4); 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

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: 1404321-01 MW-1
1404321-02 MW-2
1404321-03 MW-3
1404321-04 MW-4

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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:	**1404321**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**MW-1**	Sampled:	4/17/14 12:05		
Lab Sample ID:	**1404321-01**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/18/14 8:30		
Unit:	ug/L	Prepared:	4/21/14 7:25	By:	ALK
Dilution Factor:	1	Analyzed:	4/21/14 22:07	By:	MSZ
QC Batch:	1403462	Analytical Batch:	4D22025		

Polychlorinated Biphenyls (PCBs) by EPA Method 608

CAS Number	Analyte	Analytical Result	RL	MDL
12674-11-2	PCB-1016	0.11U	0.11	0.033
11104-28-2	PCB-1221	0.11U	0.11	0.046
11141-16-5	PCB-1232	0.11U	0.11	0.038
53469-21-9	PCB-1242	0.11U	0.11	0.035
12672-29-6	PCB-1248	0.11U	0.11	0.033
11097-69-1	PCB-1254	0.11U	0.11	0.018
11096-82-5	PCB-1260	0.11U	0.11	0.026

Surrogates:	*% Recovery*	*Control Limits*
Decachlorobiphenyl	*91*	*30-138*
Tetrachloro-m-xylene	*73*	*29-117*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404321**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**MW-2**	Sampled:	4/17/14 11:40		
Lab Sample ID:	**1404321-02**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/18/14 8:30		
Unit:	ug/L	Prepared:	4/21/14 7:25	By:	ALK
Dilution Factor:	1	Analyzed:	4/24/14 13:52	By:	MSZ
QC Batch:	1403462	Analytical Batch:	4D25009		

Polychlorinated Biphenyls (PCBs) by EPA Method 608

CAS Number	Analyte	Analytical Result	RL	MDL
12674-11-2	PCB-1016	0.11U	0.11	0.034
11104-28-2	PCB-1221	0.11U	0.11	0.047
11141-16-5	PCB-1232	0.11U	0.11	0.039
53469-21-9	PCB-1242	0.11U	0.11	0.035
12672-29-6	PCB-1248	0.11U	0.11	0.033
11097-69-1	PCB-1254	0.11U	0.11	0.019
11096-82-5	PCB-1260	0.11U	0.11	0.026

Surrogates:	*% Recovery*	*Control Limits*
Decachlorobiphenyl	*90*	*30-138*
Tetrachloro-m-xylene	*60*	*29-117*

TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404321**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**MW-3**	Sampled:	4/17/14 11:25		
Lab Sample ID:	**1404321-03**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/18/14 8:30		
Unit:	ug/L	Prepared:	4/21/14 7:25	By:	ALK
Dilution Factor:	1	Analyzed:	4/21/14 23:02	By:	MSZ
QC Batch:	1403462	Analytical Batch:	4D22025		

Polychlorinated Biphenyls (PCBs) by EPA Method 608

CAS Number	Analyte	Analytical Result	RL	MDL
12674-11-2	PCB-1016	0.10U	0.10	0.030
11104-28-2	PCB-1221	0.10U	0.10	0.042
11141-16-5	PCB-1232	0.10U	0.10	0.034
53469-21-9	PCB-1242	0.10U	0.10	0.032
12672-29-6	PCB-1248	0.10U	0.10	0.030
11097-69-1	PCB-1254	0.10U	0.10	0.017
11096-82-5	PCB-1260	0.10U	0.10	0.023

Surrogates:	*% Recovery*	*Control Limits*
Decachlorobiphenyl	*94*	*30-138*
Tetrachloro-m-xylene	*71*	*29-117*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**GM - Tonawanda Engine Plant**	Work Order:	**1404321**		
Project:	Program 2 - Quarterly SPDES Wells	Description:	Laboratory Services		
Client Sample ID:	**MW-4**	Sampled:	4/17/14 11:15		
Lab Sample ID:	**1404321-04**	Sampled By:	P. Hagerty		
Matrix:	Ground Water	Received:	4/18/14 8:30		
Unit:	ug/L	Prepared:	4/21/14 7:25	By:	ALK
Dilution Factor:	1	Analyzed:	4/21/14 23:29	By:	MSZ
QC Batch:	1403462	Analytical Batch:	4D22025		

Polychlorinated Biphenyls (PCBs) by EPA Method 608

CAS Number	Analyte	Analytical Result	RL	MDL
12674-11-2	PCB-1016	0.11U	0.11	0.032
11104-28-2	PCB-1221	0.11U	0.11	0.045
11141-16-5	PCB-1232	0.11U	0.11	0.038
53469-21-9	PCB-1242	0.11U	0.11	0.034
12672-29-6	PCB-1248	0.11U	0.11	0.032
11097-69-1	PCB-1254	0.11U	0.11	0.018
11096-82-5	PCB-1260	0.11U	0.11	0.025

Surrogates:	*% Recovery*	*Control Limits*
Decachlorobiphenyl	*97*	*30-138*
Tetrachloro-m-xylene	*79*	*29-117*

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TRIMATRIX LABORATORIES

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: 1403462 608 Liquid/Liquid Extraction/USEPA-608									
Method Blank					Analyzed:		04/21/2014	By: MSZ	
Unit: ug/L					Analytical Batch:		4D22025		
PCB-1016			0.10 U			--		0.10	0.030
PCB-1221			0.10 U					0.10	0.042
PCB-1232			0.10 U					0.10	0.034
PCB-1242			0.10 U					0.10	0.032
PCB-1248			0.10 U					0.10	0.030
PCB-1254			0.10 U					0.10	0.017
PCB-1260			0.10 U					0.10	0.023
Surrogates:									
Decachlorobiphenyl				*86*	*30-138*				
Tetrachloro-m-xylene				*79*	*29-117*				
Laboratory Control Sample					Analyzed:		04/21/2014	By: MSZ	
Unit: ug/L					Analytical Batch:		4D22025		
PCB-1016		0.600	**0.457**	76	71-104	--		0.10	0.030
PCB-1260		0.600	**0.529**	88	65-125	--		0.10	0.023
Surrogates:									
Decachlorobiphenyl				*89*	*30-138*				
Tetrachloro-m-xylene				*61*	*29-117*				
Matrix Spike 1404321-01 MW-1					Analyzed:		04/22/2014	By: MSZ	
Unit: ug/L					Analytical Batch:		4D22025		
PCB-1016	0.10 U	0.632	**0.547**	87	55-117	--		0.10	0.030
PCB-1260	0.10 U	0.632	**0.575**	91	46-132	--		0.10	0.023
Surrogates:									
Decachlorobiphenyl				*90*	*30-138*				
Tetrachloro-m-xylene				*74*	*29-117*				
Matrix Spike Duplicate 1404321-01 MW-1					Analyzed:		04/22/2014	By: MSZ	
Unit: ug/L					Analytical Batch:		4D22025		
PCB-1016	0.13 U	0.759	**0.662**	87	55-117	19	20	0.13	0.038
PCB-1260	0.13 U	0.759	**0.664**	87	46-132	14	20	0.13	0.030
Surrogates:									
Decachlorobiphenyl				*89*	*30-138*				
Tetrachloro-m-xylene				*79*	*29-117*				

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TRIMATRIX LABORATORIES

Chain of Custody Record

COC No. **140235243**

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

For Lab Use Only
Cart: 1
VOA Rack/Tray:
Receipt Log No: 13-7
Project Chemist: Jennifer Rice
Work Order No.: 1404321

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

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	Container Type (corresponds to Container Packing List) 1p	2	3	6	D Benzene, Toluene - 8021	A SVOCs - 8270, PCBs - 608	A Cond, Turb, Cl, SO4, TDS	B Total Metals: Cr, Fe	Field pH	Field Temp	Total	Sample Comments
05		01	1 Monitoring Well 1	TM 3241	4/17/14	1205		X	W	2	3	1	1					7.14	10.8	7	Field pH/Temp:
		02	2 Monitoring Well 2			1140		X	W	2	3	1	1					7.23	10.2	7	Field pH/Temp:
		03	3 Monitoring Well 3			1125		X	W	2	3	1	1					6.72	11.9	7	Field pH/Temp:
		04	4 Monitoring Well 4			1145		X	W	2	3	1	1					7.59	12.9	7	Field pH/Temp:
			5																		
			6 TM 3082 6-1																		
			7 2-2																		
			8 TM 1349 1-2		4/17/14																
			9 2-3																		
			10 TM 3032 1-3 3-4																		

Sampled By (print): PATRICK J NAGEL
Sampler's Signature: Patrick J Nagel
Company: CDM Smith

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

Comments: Container Type 2 shipping Coolers

	Relinquished By	Date	Time	Received By	Date	Time
1	Patrick J Nagel	04/18/14	1505			
2						
3						

Received For Lab By: [signature] 4/18/14 08

ORIGINAL - LABORATORY COPY - SAMPLER

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: LM Tonawanda | Receipt Record Page/Line #

Work Order #: 1404321 | New / Add To Project Chemist | Sample #s

Recorded by (initials/date): LK 4/18/14

☑ Cooler ☐ Box ☐ Other _____ | Qty Received: 2

Thermometer Used: ☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#_____)

☐ See Additional Cooler Information Form

Cooler # / Time	TM3030 1011	TM3082 1019		
Custody Seals	☑ None ☐ Present / Intact ☐ Present / Not Intact	☑ None ☐ Present / Intact ☐ Present / Not Intact	☐ None ☐ Present / Intact ☐ Present / Not Intact	☐ None ☐ Present / Intact ☐ Present / Not Intact
Coolant Location	(Dispersed) / Top / Middle / Bottom	(Dispersed) / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom
Coolant/Temperature Taken Via	☑ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers	☑ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers	☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers	☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers
Alternate Temperature Taken Via	☐ Temperature Blank (TB) ☐ 1 Container	☐ Temperature Blank (TB) ☐ 1 Container	☐ Temperature Blank (TB) ☐ 1 Container	☐ Temperature Blank (TB) ☐ 1 Container
Recorded °C / Correction Factor °C / Actual °C	Temp Blank:	Temp Blank:	Temp Blank:	Temp Blank:
TB location: Representative / Not Representative	1 5.6 — 5.6 2 5.4 — 5.4 3 7.4 — 7.4	1 4.4 — 4.4 2 4.7 — 4.7 3 7.6 — 7.6	1 2 3	1 2 3
Average °C	8.2	7.0		
☐ Cooler ID on COC?	☐	☐	☐	☐
☐ 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?

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?

Check Sample Preservation

N/A	Yes	No	
	☐	☑	Average sample temperature ≤6° C?
☑	☐	☐	Was thermal preservation required?
☑	☐		If "No", 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 1L ambers (SV Prep-Lab)

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

Notes

☐ Trip Blank received ☐ Trip Blank not listed on COC

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
4/18/14 0830	4/18/14 1019	Yes / (No)