23-Feb-2017

Scott Smith
Opflex Environmental Technologies
PO Box 2927
Coppell, TX 75019-2927

Tel: (508) 345-6520
Fax:

Re: Flint Ex. 6 - Personal Privacy House Work Order: **1702425**

Dear Scott,

ALS Environmental received 6 samples on 11-Feb-2017 10:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 32.

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

Sincerely,

Rob Nieman

Electronically approved by: Rob Nieman

Rob Nieman
Project Manager

ALS Environmental

Date: 23-Feb-17

Client: Opflex Environmental Technologies
Project: Flin[redacted]House
Work Order: 1702425

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1702425-01	1- Water Meter Grab	Water		2/9/2017	2/11/2017 10:30	☐
1702425-02	2- Water Meter WaterBug Grab	Bulk		2/9/2017	2/11/2017 10:30	☐
1702425-03	3- Water Heater Grab	Water		2/9/2017	2/11/2017 10:30	☐
1702425-04	4- Water Heater WaterBug Grab	Bulk		2/9/2017	2/11/2017 10:30	☐
1702425-05	5- Upstairs Sink Cold Grab	Water		2/9/2017	2/11/2017 10:30	☐
1702425-06	6- Kitchen Sink Cold Grab	Water		2/9/2017	2/11/2017 10:30	☐

EPA-R5-2017-008527_0000367

ALS Environmental

Date: 23-Feb-17

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Work Order: 1702425

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

EPA-R5-2017-008527_0000367

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 1- Water Meter Grab
Collection Date: 2/9/2017

Work Order: 1702425
Lab ID: 1702425-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7470A**		Prep Date: **2/13/2017**	Analyst: **VAW**
Mercury	ND		0.50	µg/L	1	2/14/2017
METALS BY ICP			**SW6010B**		Prep Date: **2/15/2017**	Analyst: **SRL**
Aluminum	**0.35**		**0.20**	**mg/L**	1	2/15/2017 04:49 PM
Arsenic	ND		0.010	mg/L	1	2/15/2017 01:05 PM
Barium	ND		0.10	mg/L	1	2/15/2017 01:05 PM
Beryllium	ND		0.00040	mg/L	1	2/15/2017 01:05 PM
Cadmium	ND		0.0050	mg/L	1	2/15/2017 01:05 PM
Calcium	**26**		**0.20**	**mg/L**	1	2/15/2017 04:49 PM
Chromium	ND		0.020	mg/L	1	2/15/2017 01:05 PM
Cobalt	ND		0.0040	mg/L	1	2/15/2017 01:05 PM
Copper	**0.12**		**0.025**	**mg/L**	1	2/15/2017 04:49 PM
Iron	**0.43**		**0.20**	**mg/L**	1	2/15/2017 04:49 PM
Lead	ND		0.015	mg/L	1	2/15/2017 01:05 PM
Lithium	ND		0.10	mg/L	1	2/15/2017 01:05 PM
Magnesium	**7.9**		**0.20**	**mg/L**	1	2/15/2017 01:05 PM
Manganese	ND		0.050	mg/L	1	2/15/2017 01:05 PM
Molybdenum	ND		0.10	mg/L	1	2/15/2017 01:05 PM
Nickel	ND		0.050	mg/L	1	2/15/2017 01:05 PM
Phosphorus	**1.2**		**0.10**	**mg/L**	1	2/15/2017 01:05 PM
Platinum	ND		0.10	mg/L	1	2/15/2017 01:05 PM
Selenium	ND		0.030	mg/L	1	2/15/2017 01:05 PM
Silver	ND		0.010	mg/L	1	2/15/2017 01:05 PM
Sodium	**5.5**		**0.20**	**mg/L**	1	2/15/2017 04:49 PM
Tellurium	ND		0.10	mg/L	1	2/15/2017 01:05 PM
Thallium	ND		0.0050	mg/L	1	2/15/2017 01:05 PM
Tin	ND		0.10	mg/L	1	2/15/2017 01:05 PM
Titanium	ND		0.10	mg/L	1	2/15/2017 01:05 PM
Tungsten	ND		0.10	mg/L	1	2/15/2017 01:05 PM
Vanadium	ND		0.050	mg/L	1	2/15/2017 01:05 PM
Yttrium	ND		0.10	mg/L	1	2/15/2017 01:05 PM
Zinc	**0.16**		**0.050**	**mg/L**	1	2/15/2017 01:05 PM
Zirconium	ND		0.10	mg/L	1	2/15/2017 01:05 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 1- Water Meter Grab
Collection Date: 2/9/2017

Work Order: 1702425
Lab ID: 1702425-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
2-Butanone	ND		50	µg/L	1	2/15/2017 02:56 PM
2-Chlorotoluene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
2-Hexanone	ND		5.0	µg/L	1	2/15/2017 02:56 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Acetone	ND		50	µg/L	1	2/15/2017 02:56 PM
Benzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Bromobenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Bromochloromethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Bromodichloromethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Bromoform	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Bromomethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Carbon disulfide	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Chlorobenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Chloroethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Chloroform	**5.9**		**5.0**	**µg/L**	1	2/15/2017 02:56 PM
Chloromethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Dibromomethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Ethylbenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 1- Water Meter Grab
Collection Date: 2/9/2017

Work Order: 1702425
Lab ID: 1702425-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
m,p-Xylene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Methylene chloride	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Naphthalene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
n-Propylbenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
o-Xylene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Styrene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Tetrachloroethene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Toluene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Trichloroethene	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/15/2017 02:56 PM
Vinyl chloride	ND		2.0	µg/L	1	2/15/2017 02:56 PM
Xylenes, Total	ND		10	µg/L	1	2/15/2017 02:56 PM
Surr: 4-Bromofluorobenzene	*103*		*61-131*	*%REC*	1	2/15/2017 02:56 PM
Surr: Dibromofluoromethane	*103*		*87-126*	*%REC*	1	2/15/2017 02:56 PM
Surr: Toluene-d8	*96.0*		*84-111*	*%REC*	1	2/15/2017 02:56 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 2- Water Meter WaterBug Grab
Collection Date: 2/9/2017

Work Order: 1702425
Lab ID: 1702425-02
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,1,1-Trichloroethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,1,2,2-Tetrachloroethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,1,2-Trichloroethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,1-Dichloroethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,1-Dichloroethene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,1-Dichloropropene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,2,3-Trichlorobenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,2,3-Trichloropropane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,2,4-Trichlorobenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,2,4-Trimethylbenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,2-Dibromo-3-chloropropane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,2-Dibromoethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,2-Dichlorobenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,2-Dichloroethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,2-Dichloropropane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,3,5-Trimethylbenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,3-Dichlorobenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,3-Dichloropropane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
1,4-Dichlorobenzene	**330**		**25**	**µg/Kg**	5	2/16/2017 05:51 PM
2,2-Dichloropropane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
2-Butanone	ND		250	µg/Kg	5	2/16/2017 05:51 PM
2-Chlorotoluene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
2-Hexanone	ND		25	µg/Kg	5	2/16/2017 05:51 PM
4-Chlorotoluene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
4-Methyl-2-pentanone	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Acetone	ND		250	µg/Kg	5	2/16/2017 05:51 PM
Benzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Bromobenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Bromochloromethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Bromodichloromethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Bromoform	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Bromomethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Carbon disulfide	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Carbon tetrachloride	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Chlorobenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Chloroethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Chloroform	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Chloromethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 2- Water Meter WaterBug Grab
Collection Date: 2/9/2017

Work Order: 1702425
Lab ID: 1702425-02
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
cis-1,3-Dichloropropene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Dibromochloromethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Dibromomethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Dichlorodifluoromethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Ethylbenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Hexachlorobutadiene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Isopropylbenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
m,p-Xylene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Methyl tert-butyl ether	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Methylene chloride	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Naphthalene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
n-Butylbenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
n-Propylbenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
o-Xylene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
p-Isopropyltoluene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
sec-Butylbenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Styrene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
tert-Butylbenzene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Tetrachloroethene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Toluene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
trans-1,2-Dichloroethene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
trans-1,3-Dichloropropene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Trichloroethene	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Trichlorofluoromethane	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Vinyl chloride	ND		25	µg/Kg	5	2/16/2017 05:51 PM
Xylenes, Total	ND		50	µg/Kg	5	2/16/2017 05:51 PM
Surr: 4-Bromofluorobenzene	*127*		*62.7-159*	*%REC*	5	2/16/2017 05:51 PM
Surr: Dibromofluoromethane	*109*		*67.3-136*	*%REC*	5	2/16/2017 05:51 PM
Surr: Toluene-d8	*98.1*		*83-124*	*%REC*	5	2/16/2017 05:51 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 3- Water Heater Grab
Collection Date: 2/9/2017

Work Order: 1702425
Lab ID: 1702425-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7470A**		Prep Date: **2/13/2017**	Analyst: **VAW**
Mercury	ND		0.50	µg/L	1	2/14/2017
METALS BY ICP			**SW6010B**		Prep Date: **2/15/2017**	Analyst: **SRL**
Aluminum	**6.3**		**0.20**	**mg/L**	1	2/15/2017 04:52 PM
Arsenic	ND		0.010	mg/L	1	2/15/2017 01:08 PM
Barium	ND		0.10	mg/L	1	2/15/2017 01:08 PM
Beryllium	ND		0.00040	mg/L	1	2/15/2017 01:08 PM
Cadmium	ND		0.0050	mg/L	1	2/15/2017 01:08 PM
Calcium	**47**		**0.20**	**mg/L**	1	2/15/2017 04:52 PM
Chromium	ND		0.020	mg/L	1	2/15/2017 01:08 PM
Cobalt	**0.0059**		**0.0040**	**mg/L**	1	2/15/2017 01:08 PM
Copper	**0.46**		**0.025**	**mg/L**	1	2/15/2017 04:52 PM
Iron	**8.3**		**0.20**	**mg/L**	1	2/15/2017 04:52 PM
Lead	ND		0.015	mg/L	1	2/15/2017 01:08 PM
Lithium	ND		0.10	mg/L	1	2/15/2017 01:08 PM
Magnesium	**8.7**		**0.20**	**mg/L**	1	2/15/2017 01:08 PM
Manganese	**0.10**		**0.050**	**mg/L**	1	2/15/2017 01:08 PM
Molybdenum	ND		0.10	mg/L	1	2/15/2017 01:08 PM
Nickel	ND		0.050	mg/L	1	2/15/2017 01:08 PM
Phosphorus	**8.0**		**0.10**	**mg/L**	1	2/15/2017 01:08 PM
Platinum	ND		0.10	mg/L	1	2/15/2017 01:08 PM
Selenium	ND		0.030	mg/L	1	2/15/2017 01:08 PM
Silver	ND		0.010	mg/L	1	2/15/2017 01:08 PM
Sodium	**6.3**		**0.20**	**mg/L**	1	2/15/2017 04:52 PM
Tellurium	ND		0.10	mg/L	1	2/15/2017 01:08 PM
Thallium	ND		0.0050	mg/L	1	2/15/2017 01:08 PM
Tin	ND		0.10	mg/L	1	2/15/2017 01:08 PM
Titanium	ND		0.10	mg/L	1	2/15/2017 01:08 PM
Tungsten	ND		0.10	mg/L	1	2/15/2017 01:08 PM
Vanadium	ND		0.050	mg/L	1	2/15/2017 01:08 PM
Yttrium	ND		0.10	mg/L	1	2/15/2017 01:08 PM
Zinc	**1.3**		**0.050**	**mg/L**	1	2/15/2017 01:08 PM
Zirconium	**0.10**		**0.10**	**mg/L**	1	2/15/2017 01:08 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 3- Water Heater Grab
Collection Date: 2/9/2017

Work Order: 1702425
Lab ID: 1702425-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
2-Butanone	ND		50	µg/L	1	2/15/2017 03:26 PM
2-Chlorotoluene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
2-Hexanone	ND		5.0	µg/L	1	2/15/2017 03:26 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Acetone	ND		50	µg/L	1	2/15/2017 03:26 PM
Benzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Bromobenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Bromochloromethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Bromodichloromethane	**8.1**		**5.0**	**µg/L**	1	2/15/2017 03:26 PM
Bromoform	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Bromomethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Carbon disulfide	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Chlorobenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Chloroethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Chloroform	**24**		**5.0**	**µg/L**	1	2/15/2017 03:26 PM
Chloromethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Dibromomethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Ethylbenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 3- Water Heater Grab
Collection Date: 2/9/2017

Work Order: 1702425
Lab ID: 1702425-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
m,p-Xylene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Methylene chloride	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Naphthalene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
n-Propylbenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
o-Xylene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Styrene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Tetrachloroethene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Toluene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Trichloroethene	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/15/2017 03:26 PM
Vinyl chloride	ND		2.0	µg/L	1	2/15/2017 03:26 PM
Xylenes, Total	ND		10	µg/L	1	2/15/2017 03:26 PM
Surr: 4-Bromofluorobenzene	*100*		*61-131*	*%REC*	1	2/15/2017 03:26 PM
Surr: Dibromofluoromethane	*101*		*87-126*	*%REC*	1	2/15/2017 03:26 PM
Surr: Toluene-d8	*87.2*		*84-111*	*%REC*	1	2/15/2017 03:26 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 4- Water Heater WaterBug Grab
Collection Date: 2/9/2017

Work Order: 1702425
Lab ID: 1702425-04
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,1,1-Trichloroethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,1,2,2-Tetrachloroethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,1,2-Trichloroethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,1-Dichloroethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,1-Dichloroethene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,1-Dichloropropene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,2,3-Trichlorobenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,2,3-Trichloropropane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,2,4-Trichlorobenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,2,4-Trimethylbenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,2-Dibromo-3-chloropropane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,2-Dibromoethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,2-Dichlorobenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,2-Dichloroethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,2-Dichloropropane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,3,5-Trimethylbenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,3-Dichlorobenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,3-Dichloropropane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
1,4-Dichlorobenzene	**430**		**25**	**µg/Kg**	5	2/16/2017 06:21 PM
2,2-Dichloropropane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
2-Butanone	ND		250	µg/Kg	5	2/16/2017 06:21 PM
2-Chlorotoluene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
2-Hexanone	ND		25	µg/Kg	5	2/16/2017 06:21 PM
4-Chlorotoluene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
4-Methyl-2-pentanone	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Acetone	ND		250	µg/Kg	5	2/16/2017 06:21 PM
Benzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Bromobenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Bromochloromethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Bromodichloromethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Bromoform	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Bromomethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Carbon disulfide	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Carbon tetrachloride	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Chlorobenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Chloroethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Chloroform	**78**		**25**	**µg/Kg**	5	2/16/2017 06:21 PM
Chloromethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flin Ex. 6 - Personal Privacy House **Work Order:** 1702425
Sample ID: 4- Water Heater WaterBug Grab **Lab ID:** 1702425-04
Collection Date: 2/9/2017 **Matrix:** BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
cis-1,3-Dichloropropene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Dibromochloromethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Dibromomethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Dichlorodifluoromethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Ethylbenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Hexachlorobutadiene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Isopropylbenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
m,p-Xylene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Methyl tert-butyl ether	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Methylene chloride	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Naphthalene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
n-Butylbenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
n-Propylbenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
o-Xylene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
p-Isopropyltoluene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
sec-Butylbenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Styrene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
tert-Butylbenzene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Tetrachloroethene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Toluene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
trans-1,2-Dichloroethene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
trans-1,3-Dichloropropene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Trichloroethene	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Trichlorofluoromethane	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Vinyl chloride	ND		25	µg/Kg	5	2/16/2017 06:21 PM
Xylenes, Total	ND		50	µg/Kg	5	2/16/2017 06:21 PM
Surr: 4-Bromofluorobenzene	*126*		*62.7-159*	*%REC*	5	2/16/2017 06:21 PM
Surr: Dibromofluoromethane	*104*		*67.3-136*	*%REC*	5	2/16/2017 06:21 PM
Surr: Toluene-d8	*94.1*		*83-124*	*%REC*	5	2/16/2017 06:21 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 5- Upstairs Sink Cold Grab
Collection Date: 2/9/2017

Work Order: 1702425
Lab ID: 1702425-05
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7470A**		Prep Date: **2/13/2017**	Analyst: **VAW**
Mercury	ND		0.50	µg/L	1	2/14/2017
METALS BY ICP			**SW6010B**		Prep Date: **2/15/2017**	Analyst: **SRL**
Aluminum	**0.22**		**0.20**	**mg/L**	1	2/15/2017 04:55 PM
Arsenic	ND		0.010	mg/L	1	2/15/2017 01:12 PM
Barium	ND		0.10	mg/L	1	2/15/2017 01:12 PM
Beryllium	ND		0.00040	mg/L	1	2/15/2017 01:12 PM
Cadmium	ND		0.0050	mg/L	1	2/15/2017 01:12 PM
Calcium	**27**		**0.20**	**mg/L**	1	2/15/2017 04:55 PM
Chromium	ND		0.020	mg/L	1	2/15/2017 01:12 PM
Cobalt	ND		0.0040	mg/L	1	2/15/2017 01:12 PM
Copper	**0.16**		**0.025**	**mg/L**	1	2/15/2017 04:55 PM
Iron	ND		0.20	mg/L	1	2/15/2017 01:12 PM
Lead	ND		0.015	mg/L	1	2/15/2017 01:12 PM
Lithium	ND		0.10	mg/L	1	2/15/2017 01:12 PM
Magnesium	**8.0**		**0.20**	**mg/L**	1	2/15/2017 01:12 PM
Manganese	ND		0.050	mg/L	1	2/15/2017 01:12 PM
Molybdenum	ND		0.10	mg/L	1	2/15/2017 01:12 PM
Nickel	**0.054**		**0.050**	**mg/L**	1	2/15/2017 01:12 PM
Phosphorus	**1.1**		**0.10**	**mg/L**	1	2/15/2017 01:12 PM
Platinum	ND		0.10	mg/L	1	2/15/2017 01:12 PM
Selenium	ND		0.030	mg/L	1	2/15/2017 01:12 PM
Silver	ND		0.010	mg/L	1	2/15/2017 01:12 PM
Sodium	**5.8**		**0.20**	**mg/L**	1	2/15/2017 04:55 PM
Tellurium	ND		0.10	mg/L	1	2/15/2017 01:12 PM
Thallium	ND		0.0050	mg/L	1	2/15/2017 01:12 PM
Tin	ND		0.10	mg/L	1	2/15/2017 01:12 PM
Titanium	ND		0.10	mg/L	1	2/15/2017 01:12 PM
Tungsten	ND		0.10	mg/L	1	2/15/2017 01:12 PM
Vanadium	ND		0.050	mg/L	1	2/15/2017 01:12 PM
Yttrium	ND		0.10	mg/L	1	2/15/2017 01:12 PM
Zinc	**0.14**		**0.050**	**mg/L**	1	2/15/2017 01:12 PM
Zirconium	ND		0.10	mg/L	1	2/15/2017 01:12 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 6- Kitchen Sink Cold Grab
Collection Date: 2/9/2017

Work Order: 1702425
Lab ID: 1702425-06
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7470A**		Prep Date: **2/13/2017**	Analyst: **VAW**
Mercury	ND		0.50	µg/L	1	2/14/2017
METALS BY ICP			**SW6010B**		Prep Date: **2/15/2017**	Analyst: **SRL**
Aluminum	**0.27**		**0.20**	**mg/L**	1	2/15/2017 04:59 PM
Arsenic	ND		0.010	mg/L	1	2/15/2017 01:15 PM
Barium	ND		0.10	mg/L	1	2/15/2017 01:15 PM
Beryllium	ND		0.00040	mg/L	1	2/15/2017 01:15 PM
Cadmium	ND		0.0050	mg/L	1	2/15/2017 01:15 PM
Calcium	**27**		**0.20**	**mg/L**	1	2/15/2017 04:59 PM
Chromium	ND		0.020	mg/L	1	2/15/2017 01:15 PM
Cobalt	ND		0.0040	mg/L	1	2/15/2017 01:15 PM
Copper	**0.13**		**0.025**	**mg/L**	1	2/15/2017 04:59 PM
Iron	ND		0.20	mg/L	1	2/15/2017 01:15 PM
Lead	ND		0.015	mg/L	1	2/15/2017 01:15 PM
Lithium	ND		0.10	mg/L	1	2/15/2017 01:15 PM
Magnesium	**8.1**		**0.20**	**mg/L**	1	2/15/2017 01:15 PM
Manganese	ND		0.050	mg/L	1	2/15/2017 01:15 PM
Molybdenum	ND		0.10	mg/L	1	2/15/2017 01:15 PM
Nickel	ND		0.050	mg/L	1	2/15/2017 01:15 PM
Phosphorus	**1.1**		**0.10**	**mg/L**	1	2/15/2017 01:15 PM
Platinum	ND		0.10	mg/L	1	2/15/2017 01:15 PM
Selenium	ND		0.030	mg/L	1	2/15/2017 01:15 PM
Silver	ND		0.010	mg/L	1	2/15/2017 01:15 PM
Sodium	**5.7**		**0.20**	**mg/L**	1	2/15/2017 04:59 PM
Tellurium	ND		0.10	mg/L	1	2/15/2017 01:15 PM
Thallium	ND		0.0050	mg/L	1	2/15/2017 01:15 PM
Tin	ND		0.10	mg/L	1	2/15/2017 01:15 PM
Titanium	ND		0.10	mg/L	1	2/15/2017 01:15 PM
Tungsten	ND		0.10	mg/L	1	2/15/2017 01:15 PM
Vanadium	ND		0.050	mg/L	1	2/15/2017 01:15 PM
Yttrium	ND		0.10	mg/L	1	2/15/2017 01:15 PM
Zinc	**0.058**		**0.050**	**mg/L**	1	2/15/2017 01:15 PM
Zirconium	ND		0.10	mg/L	1	2/15/2017 01:15 PM

Note:

ALS Environmental

Date: *23-Feb-17*

Client: Opflex Environmental Technologies
Project: Flin Ex. 6 - Personal Privacy House
Work Order: 1702425

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch 41271					
	Analysis	lcsd-41271	1446686	Mercury by CVAA	Result outside of acceptance criteria (failed high). All associated samples are ND, so the results are ok to report.
Batch R137729					
	Analysis	LCS	1448341	Volatile Organic Compounds	Internal Standard/Surrogate outside QA/QC limits due to matrix.
	Analysis	MBLK	1448340	Volatile Organic Compounds	Internal Standard outside QA/QC limits due to matrix.

ALS Environmental

Date: 23-Feb-17

Client: Opflex Environmental Technologies

Work Order: 1702425

Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **41271** Instrument ID: **HG1** Method: **SW7470A**

MBLK Sample ID: **mblk-41271-41271** Units: **µg/L** Analysis Date: **2/14/2017**
Client ID: Run ID: **HG1_170214B** SeqNo: **1446684** Prep Date: **2/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.50								

LCS Sample ID: **lcs-41271-41271** Units: **µg/L** Analysis Date: **2/14/2017**
Client ID: Run ID: **HG1_170214B** SeqNo: **1446685** Prep Date: **2/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.72	0.50	5	0	114	80-120	0			

LCSD Sample ID: **lcsd-41271-41271** Units: **µg/L** Analysis Date: **2/14/2017**
Client ID: Run ID: **HG1_170214B** SeqNo: **1446686** Prep Date: **2/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	6.12	0.50	5	0	122	80-120	5.72	6.76	20	S

MS Sample ID: **1702368-02a ms** Units: **µg/L** Analysis Date: **2/14/2017**
Client ID: Run ID: **HG1_170214B** SeqNo: **1446703** Prep Date: **2/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.49	0.50	5	0.07	108	75-125	0			

MSD Sample ID: **1702368-02a msd** Units: **µg/L** Analysis Date: **2/14/2017**
Client ID: Run ID: **HG1_170214B** SeqNo: **1446704** Prep Date: **2/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.3	0.50	5	0.07	105	75-125	5.49	3.52	20	

The following samples were analyzed in this batch:

1702425-01B	1702425-03B	1702425-05A
1702425-06A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **41311** Instrument ID: **ICP3** Method: **SW6010B**

MBLK Sample ID: **mblk-41311-41311** Units: **mg/L** Analysis Date: **2/15/2017 12:09 PM**
Client ID: Run ID: **ICP3_170215B** SeqNo: **1447390** Prep Date: **2/15/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.00040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.0040								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Lithium	ND	0.10								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Molybdenum	ND	0.10								
Nickel	ND	0.050								
Phosphorus	ND	0.10								
Platinum	ND	0.10								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Tellurium	ND	0.10								
Thallium	ND	0.0050								
Tin	ND	0.10								
Titanium	ND	0.10								
Tungsten	ND	0.10								
Vanadium	ND	0.050								
Yttrium	ND	0.10								
Zinc	ND	0.050								
Zirconium	ND	0.10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **41311** Instrument ID: **ICP3** Method: **SW6010B**

LCS Sample ID: **lcs-41311-41311** Units: **mg/L** Analysis Date: **2/15/2017 12:12 PM**
Client ID: Run ID: **ICP3_170215B** SeqNo: **1447391** Prep Date: **2/15/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.167	0.20	1.1	0	106	87.9-120	0			
Arsenic	1.158	0.010	1.1	0	105	80-120	0			
Barium	1.159	0.10	1.1	0	105	80-120	0			
Beryllium	1.114	0.00040	1.1	0	101	80-120	0			
Cadmium	1.172	0.0050	1.1	0	106	80-120	0			
Calcium	1.13	0.20	1.1	0	103	80.3-122	0			
Chromium	1.132	0.020	1.1	0	103	80-120	0			
Cobalt	1.081	0.0040	1.1	0	98.2	80-120	0			
Copper	1.082	0.025	1.1	0	98.4	80-120	0			
Lead	1.128	0.015	1.1	0	102	80-120	0			
Magnesium	1.143	0.20	1.1	0	104	80-120	0			
Manganese	1.097	0.050	1.1	0	99.7	80-120	0			
Molybdenum	1.096	0.10	1.1	0	99.6	80-120	0			
Nickel	1.077	0.050	1.1	0	97.9	80-120	0			
Selenium	1.142	0.030	1.1	0	104	80-120	0			
Silver	1.143	0.010	1.1	0	104	80-120	0			
Sodium	1.175	0.20	1.1	0	107	80-120	0			
Thallium	1.077	0.0050	1.1	0	97.9	80-120	0			
Titanium	1.09	0.10	1.1	0	99.1	80-120	0			
Vanadium	1.122	0.050	1.1	0	102	80-120	0			
Zinc	1.077	0.050	1.1	0	97.9	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **41311** Instrument ID: **ICP3** Method: **SW6010B**

LCSD Sample ID: **lcsd-41311-41311** Units: **mg/L** Analysis Date: **2/15/2017 12:15 PM**
Client ID: Run ID: **ICP3_170215B** SeqNo: **1447392** Prep Date: **2/15/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.204	0.20	1.1	0	110	87.9-120	1.167	3.15	20	
Arsenic	1.101	0.010	1.1	0	100	80-120	1.158	5.06	20	
Barium	1.1	0.10	1.1	0	100	80-120	1.159	5.26	20	
Beryllium	1.097	0.00040	1.1	0	99.7	80-120	1.114	1.58	20	
Cadmium	1.119	0.0050	1.1	0	102	80-120	1.172	4.61	20	
Calcium	1.103	0.20	1.1	0	100	80.3-122	1.13	2.36	20	
Chromium	1.14	0.020	1.1	0	104	80-120	1.132	0.678	20	
Cobalt	1.032	0.0040	1.1	0	93.8	80-120	1.081	4.66	20	
Copper	1.096	0.025	1.1	0	99.6	80-120	1.082	1.26	20	
Iron	1.146	0.20	1.1	0	104	80-120	1.172	2.18	20	
Lead	1.074	0.015	1.1	0	97.7	80-120	1.128	4.83	20	
Magnesium	1.082	0.20	1.1	0	98.4	80-120	1.143	5.49	20	
Manganese	1.076	0.050	1.1	0	97.8	80-120	1.097	1.95	20	
Molybdenum	1.044	0.10	1.1	0	94.9	80-120	1.096	4.81	20	
Nickel	1.027	0.050	1.1	0	93.3	80-120	1.077	4.83	20	
Selenium	1.083	0.030	1.1	0	98.4	80-120	1.142	5.32	20	
Silver	1.143	0.010	1.1	0	104	80-120	1.143	0	20	
Sodium	1.153	0.20	1.1	0	105	80-120	1.175	1.89	20	
Thallium	1.019	0.0050	1.1	0	92.6	80-120	1.077	5.54	20	
Titanium	1.069	0.10	1.1	0	97.2	80-120	1.09	1.98	20	
Vanadium	1.102	0.050	1.1	0	100	80-120	1.122	1.78	20	
Zinc	1.028	0.050	1.1	0	93.5	80-120	1.077	4.63	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **41311** Instrument ID: **ICP3** Method: **SW6010B**

MS Sample ID: **1702425-06a ms** Units: **mg/L** Analysis Date: **2/15/2017 01:18 PM**
Client ID: **6- Kitchen Sink Cold Grab** Run ID: **ICP3_170215B** SeqNo: **1447407** Prep Date: **2/15/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.455	0.20	1.1	0.2847	106	75-125	0			
Arsenic	1.128	0.010	1.1	0.0009262	102	75-125	0			
Barium	1.147	0.10	1.1	0.01133	103	75-125	0			
Beryllium	1.119	0.00040	1.1	-0.001186	102	75-125	0			
Cadmium	1.144	0.0050	1.1	-0.001409	104	75-125	0			
Calcium	29.93	0.20	1.1	28.61	120	75-125	0			O
Chromium	1.142	0.020	1.1	-0.0001012	104	75-125	0			
Cobalt	1.043	0.0040	1.1	-0.0006193	94.8	75-125	0			
Copper	1.248	0.025	1.1	0.1278	102	75-125	0			
Iron	1.223	0.20	1.1	0.08441	104	75-125	0			
Lead	1.081	0.015	1.1	0.0006666	98.2	75-125	0			
Magnesium	9.344	0.20	1.1	8.138	110	75-125	0			O
Manganese	1.064	0.050	1.1	0.001124	96.6	75-125	0			
Molybdenum	1.096	0.10	1.1	0	99.6	75-125	0			
Nickel	1.027	0.050	1.1	0.0007898	93.3	75-125	0			
Selenium	1.108	0.030	1.1	-0.000385	101	75-125	0			
Silver	1.146	0.010	1.1	0.0000704	104	75-125	0			
Sodium	7.197	0.20	1.1	5.996	109	75-125	0			O
Thallium	1.051	0.0050	1.1	-0.002108	95.7	75-125	0			
Titanium	1.08	0.10	1.1	0	98.2	75-125	0			
Vanadium	1.135	0.050	1.1	-0.009595	104	75-125	0			
Zinc	1.092	0.050	1.1	0.05802	94	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **41311** Instrument ID: **ICP3** Method: **SW6010B**

MSD Sample ID: **1702425-06a msd** Units: **mg/L** Analysis Date: **2/15/2017 01:27 PM**
Client ID: **6- Kitchen Sink Cold Grab** Run ID: **ICP3_170215B** SeqNo: **1447408** Prep Date: **2/15/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.304	0.20	1.1	0.2847	92.6	75-125	1.455	11	20	
Arsenic	1.041	0.010	1.1	0.0009262	94.6	75-125	1.128	7.93	20	
Barium	1.061	0.10	1.1	0.01133	95.4	75-125	1.147	7.84	20	
Beryllium	0.9954	0.00040	1.1	-0.001186	90.6	75-125	1.119	11.7	20	
Cadmium	1.066	0.0050	1.1	-0.001409	97	75-125	1.144	7.06	20	
Calcium	26.9	0.20	1.1	28.61	-156	75-125	29.93	10.7	20	SO
Chromium	1.049	0.020	1.1	-0.0001012	95.3	75-125	1.142	8.51	20	
Cobalt	0.9717	0.0040	1.1	-0.0006193	88.4	75-125	1.043	7.04	20	
Copper	1.137	0.025	1.1	0.1278	91.8	75-125	1.248	9.31	20	
Iron	1.101	0.20	1.1	0.08441	92.4	75-125	1.223	10.5	20	
Lead	1.002	0.015	1.1	0.0006666	91	75-125	1.081	7.64	20	
Magnesium	8.515	0.20	1.1	8.138	34.3	75-125	9.344	9.29	20	SO
Manganese	0.968	0.050	1.1	0.001124	87.9	75-125	1.064	9.47	20	
Molybdenum	1.013	0.10	1.1	0	92.1	75-125	1.096	7.86	20	
Nickel	0.9462	0.050	1.1	0.0007898	85.9	75-125	1.027	8.19	20	
Selenium	1.029	0.030	1.1	-0.000385	93.6	75-125	1.108	7.37	20	
Silver	1.052	0.010	1.1	0.0000704	95.6	75-125	1.146	8.56	20	
Sodium	6.526	0.20	1.1	5.996	48.2	75-125	7.197	9.78	20	SO
Thallium	0.9802	0.0050	1.1	-0.002108	89.3	75-125	1.051	6.95	20	
Titanium	0.9787	0.10	1.1	0	89	75-125	1.08	9.85	20	
Vanadium	1.01	0.050	1.1	-0.009595	92.7	75-125	1.135	11.6	20	
Zinc	1.02	0.050	1.1	0.05802	87.5	75-125	1.092	6.79	20	

The following samples were analyzed in this batch:

1702425-01B	1702425-03b	1702425-05a
1702425-06a		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R137682** Instrument ID: **VMS1** Method: **SW8260B**

MBLK Sample ID: **MBLK-R137682** Units: **µg/L** Analysis Date: **2/15/2017 08:04 AM**
Client ID: Run ID: **VMS1_170215A** SeqNo: **1447672** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	50								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	50								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R137682** Instrument ID: **VMS1** Method: **SW8260B**

Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	10					
Surr: 4-Bromofluorobenzene	53.52	0	*50*	0	*107*	*61-131*	0
Surr: Dibromofluoromethane	48.7	0	*50*	0	*97.4*	*87-126*	0
Surr: Toluene-d8	48.8	0	*50*	0	*97.6*	*84-111*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R137682** Instrument ID: **VMS1** Method: **SW8260B**

LCS Sample ID: **LCS-R137682** Units: **µg/L** Analysis Date: **2/15/2017 08:35 AM**
Client ID: Run ID: **VMS1_170215A** SeqNo: **1447674** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	44.4	5.0	50	0	88.8	48.4-140	0			
1,1-Dichloroethene	42.75	5.0	50	0	85.5	45.5-150	0			
1,2-Dichloroethane	43.53	5.0	50	0	87.1	46.5-141	0			
1,3-Dichlorobenzene	42.58	5.0	50	0	85.2	42.5-133	0			
1,4-Dichlorobenzene	43.21	5.0	50	0	86.4	38.9-136	0			
Benzene	43.58	5.0	50	0	87.2	50.7-134	0			
Carbon tetrachloride	48.1	5.0	50	0	96.2	45.5-143	0			
Chlorobenzene	44.91	5.0	50	0	89.8	45-133	0			
Chloroform	45.54	5.0	50	0	91.1	52.4-136	0			
cis-1,2-Dichloroethene	44.68	5.0	50	0	89.4	49.7-138	0			
Ethylbenzene	45.11	5.0	50	0	90.2	37.8-145	0			
m,p-Xylene	92.51	5.0	100	0	92.5	25.1-163	0			
Methyl tert-butyl ether	38.65	5.0	50	0	77.3	26.7-174	0			
Styrene	49.02	5.0	50	0	98	26.3-172	0			
Tetrachloroethene	46.72	5.0	50	0	93.4	37.3-139	0			
Toluene	42.26	5.0	50	0	84.5	44-135	0			
Trichloroethene	44.56	5.0	50	0	89.1	45.9-140	0			
Xylenes, Total	140	10	150	0	93.4	47.3-132	0			
Surr: 4-Bromofluorobenzene	50.52	0	*50*	0	*101*	*61-131*	0			
Surr: Dibromofluoromethane	52.07	0	*50*	0	*104*	*87-126*	0			
Surr: Toluene-d8	48.52	0	*50*	0	*97*	*84-111*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flin[redacted]House

QC BATCH REPORT

Batch ID: **R137682** Instrument ID: **VMS1** Method: **SW8260B**

MS Sample ID: **1702302-02A MS** Units: **µg/L** Analysis Date: **2/15/2017 09:13 AM**
Client ID: Run ID: **VMS1_170215A** SeqNo: **1447676** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.08	5.0	50	0	104	40.4-134	0			
1,1-Dichloroethene	53.11	5.0	50	0	106	45.3-151	0			
1,2-Dichloroethane	51.45	5.0	50	0	103	37-139	0			
1,3-Dichlorobenzene	51.94	5.0	50	0	104	42.9-121	0			
1,4-Dichlorobenzene	47.44	5.0	50	0	94.9	53.4-129	0			
Benzene	51.74	5.0	50	0	103	37.4-144	0			
Carbon tetrachloride	56.29	5.0	50	0	113	33.8-150	0			
Chlorobenzene	53.88	5.0	50	0	108	52.4-132	0			
Chloroform	53.93	5.0	50	0	108	45.5-135	0			
cis-1,2-Dichloroethene	51.63	5.0	50	0	103	35.2-150	0			
Ethylbenzene	54.76	5.0	50	0	110	46.5-146	0			
m,p-Xylene	109.7	5.0	100	0	110	38.2-167	0			
Styrene	55.46	5.0	50	0	111	20.9-184	0			
Tetrachloroethene	54.99	5.0	50	0	110	55.2-134	0			
Toluene	50.23	5.0	50	0	100	32.7-140	0			
Trichloroethene	54.03	5.0	50	0	108	29.1-153	0			
Xylenes, Total	162.9	10	150	1.27	108	43.6-148	0			
Surr: 4-Bromofluorobenzene	50.34	0	*50*	0	*101*	*61-131*	0			
Surr: Dibromofluoromethane	49.77	0	*50*	0	*99.5*	*87-126*	0			
Surr: Toluene-d8	49.2	0	*50*	0	*98.4*	*84-111*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R137682** Instrument ID: **VMS1** Method: **SW8260B**

MSD Sample ID: **1702302-02A MSD** Units: **µg/L** Analysis Date: **2/15/2017 09:42 AM**
Client ID: Run ID: **VMS1_170215A** SeqNo: **1447678** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.34	5.0	50	0	101	40.4-134	52.08	3.4	20	
1,1-Dichloroethene	46.33	5.0	50	0	92.7	45.3-151	53.11	13.6	20	
1,2-Dichloroethane	50.08	5.0	50	0	100	37-139	51.45	2.7	20	
1,3-Dichlorobenzene	50.46	5.0	50	0	101	42.9-121	51.94	2.89	20	
1,4-Dichlorobenzene	47.78	5.0	50	0	95.6	53.4-129	47.44	0.714	20	
Benzene	49.96	5.0	50	0	99.9	37.4-144	51.74	3.5	20	
Carbon tetrachloride	55.55	5.0	50	0	111	33.8-150	56.29	1.32	20	
Chlorobenzene	50.09	5.0	50	0	100	52.4-132	53.88	7.29	20	
Chloroform	49.47	5.0	50	0	98.9	45.5-135	53.93	8.63	20	
cis-1,2-Dichloroethene	47.76	5.0	50	0	95.5	35.2-150	51.63	7.79	21	
Ethylbenzene	50.02	5.0	50	0	100	46.5-146	54.76	9.05	20	
m,p-Xylene	100.2	5.0	100	0	100	38.2-167	109.7	9.04	20	
Styrene	53.25	5.0	50	0	106	20.9-184	55.46	4.07	20	
Tetrachloroethene	52.01	5.0	50	0	104	55.2-134	54.99	5.57	20	
Toluene	48.55	5.0	50	0	97.1	32.7-140	50.23	3.4	20	
Trichloroethene	52.23	5.0	50	0	104	29.1-153	54.03	3.39	20	
Xylenes, Total	151.6	10	150	1.27	100	43.6-148	162.9	7.18	20	
Surr: 4-Bromofluorobenzene	50.75	0	*50*	0	*102*	*61-131*	50.34	*0.811*		
Surr: Dibromofluoromethane	49.89	0	*50*	0	*99.8*	*87-126*	49.77	*0.241*		
Surr: Toluene-d8	48.67	0	*50*	0	*97.3*	*84-111*	49.2	*1.08*		

The following samples were analyzed in this batch: 1702425-01A 1702425-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R137729** Instrument ID: **VMS2** Method: **SW8260B**

MBLK Sample ID: **MBLK-R137729** Units: **µg/Kg** Analysis Date: **2/16/2017 03:49 PM**
Client ID: Run ID: **VMS2_170216B** SeqNo: **1448340** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	50								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	50								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R137729** Instrument ID: **VMS2** Method: **SW8260B**

Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	10					
Surr: 4-Bromofluorobenzene	76.91	0	*50*	0	*154*	*62.7-159*	0
Surr: Dibromofluoromethane	51.14	0	*50*	0	*102*	*67.3-136*	0
Surr: Toluene-d8	48.19	0	*50*	0	*96.4*	*83-124*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Opflex Environmental Technologies
Work Order: 1702425
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R137729** Instrument ID: **VMS2** Method: **SW8260B**

LCS Sample ID: **LCS-R137729** Units: **µg/Kg** Analysis Date: **2/16/2017 04:20 PM**
Client ID: Run ID: **VMS2_170216B** SeqNo: **1448341** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.84	5.0	50	0	108	53.6-149	0			
1,1-Dichloroethene	56.91	5.0	50	0	114	38.8-176	0			
1,2-Dichloroethane	48.53	5.0	50	0	97.1	54.4-145	0			
1,3-Dichlorobenzene	49.44	5.0	50	0	98.9	54.2-137	0			
1,4-Dichlorobenzene	47.15	5.0	50	0	94.3	52.8-135	0			
Benzene	53.63	5.0	50	0	107	56-148	0			
Carbon tetrachloride	55.18	5.0	50	0	110	51.9-151	0			
Chlorobenzene	51.39	5.0	50	0	103	55.4-137	0			
Chloroform	55.04	5.0	50	0	110	51.1-147	0			
cis-1,2-Dichloroethene	56.19	5.0	50	0	112	47.6-149	0			
Ethylbenzene	50.52	5.0	50	0	101	55.8-142	0			
m,p-Xylene	97.59	5.0	100	0	97.6	57.6-141	0			
Styrene	42.98	5.0	50	0	86	59.6-143	0			
Tetrachloroethene	55.97	5.0	50	0	112	56.2-160	0			
Toluene	48.94	5.0	50	0	97.9	56-143	0			
Trichloroethene	52.06	5.0	50	0	104	56.5-143	0			
Surr: 4-Bromofluorobenzene	82.1	0	*50*	0	*164*	*62.7-159*	0			S
Surr: Dibromofluoromethane	52.63	0	*50*	0	*105*	*67.3-136*	0			
Surr: Toluene-d8	47.74	0	*50*	0	*95.5*	*83-124*	0			

The following samples were analyzed in this batch: 1702425-02A 1702425-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 23-Feb-17

Client: Opflex Environmental Technologies
Project: Flint Ex. 6 - Personal Privacy House
WorkOrder: **1702425**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated MethodBlank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is >4 times amount spiked
P	Dual Column results percent difference >40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory controllimits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/Kg	
µg/L	
as noted	
mg/L	

EPA-R5-2017-008527_0000367

ALS Environmental

Sample Receipt Checklist

Client Name: **OPFLEX-COPPE LL** Date/Time Received: **11-Feb-17 10:30**

Work Order: **1702425** Received by: **RDN**

Checklist completed by: Jan Wilcox (eSignature) 13-Feb-17 (Date) Reviewed by: Rob Nieman (eSignature) 15-Feb-17 (Date)

Matrices:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☐	No ☑	
Chain of custody signed when relinquished and received?	Yes ☐	No ☑	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action: