



April 1, 2017

Jeannette DeBartolomeo
Environmental Compliance Specialist
MDE-OCP
1800 Washington Blvd.
Suite 620
Baltimore, MD 21230

**RE: Drinking Water Results & CAP Installation Update
Calvert Citgo
2815 North East Road, North East, MD
2802 Northeast Road (Harrison Residence)
2794 Northeast Road (O'Brien's Residence)
North East, Maryland 21901
Facility No. 5678
REPSG Project Reference No. 005977.130.01**

Dear Ms. DeBartolomeo,

Attached, please find the drinking water results for the O'Brien Residences, located at 2802 Northeast Road in Northeast Maryland related to case NO.: 1992-2616-CE. These results are for the January and February 2017 drinking water events. Please note that no results for the property located at 2802 Northeast Road for the months of January and February 2017 are available due to a lack of access at the property. Results for the month of March 2017 at both 2794 and 2802 Northeast Road, along with updates on the status of the on-Site active remediation system recently installed at the Site, are forthcoming.

The results of the drinking water analysis are compared against the drinking water standards set by the U.S. Environmental Protection Agency (USEPA), which sets legal limits that certain compounds in drinking water should meet in order to be protective of human health. Not all compounds analyzed for in drinking water samples have standards set by the USEPA. Moving forward, MTBE for which no standard is set by the EPA, will be compared against the MDE's recommended control level of 20 parts per billion.

If you have any questions or concerns, please do not hesitate to contact our office at 215-729-3220.

Sincerely,

Suzanne Shourds
Project Manager
React Environmental Professional Services Group, Inc
enclosures

Calvert Citgo
2794 NE Road, North East, MD
Drinking Water Results

Pre-Filtration														
Sample ID			DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C
Sample Date			03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016	08/18/2016	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017	02/16/2017
Compound	EPA Std.	Unit												
1,1-Dichloroethane	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	µg/l	11.9	ND	12.6	11.9	11.4	10.8	ND	12.7	13.3	12.6	13	14.5
1,4-Dioxane	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitropropane	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**	µg/l	13	15.1	21.8	8	ND	37.1	26.7	20.7	32.4	12.5	28.4	13
Benzene	5	µg/l	ND	ND	0.11J	ND	ND	ND	ND	ND	0.1J	ND	ND	0.084J
Carbon disulfide	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorine	4000	µg/l	NT	ND	NT	NT	NT	17J	ND	NT	NT	6.7J	NT	NT
Chlorobenzene	100	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cymene	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl ether	**	µg/l	ND	ND	0.28J	ND	ND	ND	0.25J	ND	0.3J	ND	ND	ND
Hexachlorobutadiene	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl benzene	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Ether	**	µg/l	5.1	ND	ND	ND	ND	5.7	ND	ND	7	ND	6.2	7.6
m-Dichlorobenzene	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	0.13J	ND	ND	ND
Methyl bromide	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	0.18J	ND	ND	ND
Methyl chloride	**	µg/l	ND	ND	0.24J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	**	µg/l	6.2	2.8	10.6	6	11	6.8	7	7.9	5.4	6.9	7.9	6
Methyl iodide	**	µg/l	0.33J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	20	µg/l	368	486	479	458	369	480	424	455	481	433	461	515
Methylene chloride	5	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Dichlorobenzene	600	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Dichlorobenzene	75	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	0.13J	ND	ND	ND
sec-Butylbenzene	**	µg/l	0.11J	0.11J	ND	ND	ND	ND	ND	ND	0.12J	ND	ND	ND
Tert-Amyl alcohol	**	µg/l	ND	141E	151E	ND	ND	ND	223J	ND	ND	197J	205	9
Tert-Amyl Methyl Ether	**	µg/l	3.3	3	3.5	3.5	ND	2.6	3.5	4	4	3.8	3.9	4.7
tert-Butylalcohol	**	µg/l	3560	4190	4480	4780	3400	5430	4410	4440	4550	4140	5590	5940
Tetrahydrofuran	**	µg/l	1.2J	ND	0.88J	ND	ND	ND	ND	ND	1.1J	ND	ND	ND
Toluene	1000	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mid-Carbon 1														
Sample ID			DW-004I	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I
Sample Date			03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016	08/18/2016	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017	02/16/2017
Compound	EPA Std.	Unit												
1,4-Dioxane	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**	µg/l	12.3	ND	20.9	7.4	16.4	11.2	8.2	12.8	40.1	16.3	23	16.3
Carbon disulfide	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorine	4000	µg/l	NT	ND	NT	NT	NT	ND	ND	NT	NT	6.7J	NT	NT
Isopropanol	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	**	µg/l	5.5	ND	11.8	5.7	7.5	7.7	5.1	7.2	5.2	9.2	7.6	6.5
Methyl iodide	**	µg/l	0.33J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	20	µg/l	302	440	511	477	374	608	0.61	0.67	1.6	2.1	8.8	21.5
n-Hexane	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Amyl alcohol	**	µg/l	ND	ND	189E	156J	ND	187J	36.6	52.6	68	75.6	138	ND
Tert-Amyl Methyl Ether	**	µg/l	ND	ND	ND	ND	0.27J	ND	ND	ND	ND	ND	ND	ND
tert-Butylalcohol	**	µg/l	3830	4480	4960	4660	1860	5570	4620	4300	5640	4130	5550	6500
Tetrahydrofuran	**	µg/l	1.5J	ND	1.4J	ND	ND	ND	2.2J	2.5J	2.8	1.6J	ND	ND
Toluene	1000	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mid-Carbon 2														
Sample ID			DW-004J	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J
Sample Date			03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016	08/18/2016	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017	02/16/2017
Compound	EPA Std.	Unit												
1,4-Dioxane	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**	µg/l	8.5	4.4J	14	7.1	32.8	42.7	12.7	21.7	21.8	12.9	26.5	28.3
Carbon disulfide	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropanol	**	µg/l	ND	ND	4.2J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	**	µg/l	ND	ND	ND	ND	ND	ND	ND	0.19J	ND	ND	ND	ND
Methyl chloride	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.52
Methyl ethyl ketone	**	µg/l	5.2	ND	11	6.8	8.4	7.3	5.6	7.4	6.1	8.2	ND	6.5
Methyl iodide	**	µg/l	0.28J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	20	µg/l	2.2	12.9	63.5	108	182	300	375	387	406	332	278	254
n-Butylbenzene	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Hexane	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Amyl alcohol	**	µg/l	42.9	101	160E	191J	198J	ND	280J	210	ND	ND	127	ND
tert-Butylalcohol	**	µg/l	3680	4470	5300	4790	3480	5050	4370	3930	4880	3860	5330	6630
Tetrahydrofuran	**	µg/l	2.2J	2.7	2.1J	ND	1.7J	ND	1.3J	1.4J	2.1J	1.9J	ND	ND
Toluene	1000	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Di-chloroethyler	100	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Post-Carbon														
Sample ID			DW-004K	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K
Sample Date			03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016	08/18/2016	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017	02/16/2017
Compound	EPA Std.	Unit												
1,4-Dioxane	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	**	µg/l	7.7	6.4	12.6	10.2	19.1	14.7	7.6	5.9	13	9	13.6	7.7
Isopropanol	**	µg/l	ND	ND	5.7J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	**	µg/l	ND	ND	0.13J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	**	µg/l	5.8	ND	11.9	9.6	9.8	7	5	ND	4.7	6.6	ND	5.8
Methyl iodide	**	µg/l	0.29J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	20	µg/l	0.14J	0.2J	0.81	0.35J	0.74	0.99	ND	0.65	0.5J	0.12J	1.2	10
Methylene chloride	5	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1J
n-Hexane	**	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Amyl alcohol	**	µg/l	12.6	17.2	20.3	25.4	9.7	26.6	ND	6.6	7.7	4.6J	ND	ND
tert-Butylalcohol	**	µg/l	4180	5330	5180	5400	3780	5420	10.9	4320	5610	3820	4770	6990
Tetrachloroethylene	5	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	**	µg/l	6.1	4.5	3.1	3.7	ND	2.5J	ND	ND	2.1J	1.6J	ND	2.3J
Toluene	1000	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 02/29/2016-01/12/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C
			Date:	02/29/2016	03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
2-Nitropropane	ug/l	**		6.7	<0.8U	<0.8U	<0.8U	<0.8U	<0.8U
Chlorine	ug/l	4000		-	-	<9U	-	-	-
Methyl iodide	ug/l	**		<0.19U	0.33J	<0.19U	<0.19U	<0.19U	<0.19U
Tert-Amyl Methyl Ether	ug/l	**		3	3.3	3	3.5	3.5	<0.15U
<i>Volatile Organic Compounds (VOCs)</i>									
1,1-Dichloroethane	ug/l	**		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U
1,2-Dichloroethane	ug/l	5		13	11.9	<0.15U	12.6	11.9	11.4
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		21.5	13	15.1	21.8	8	<2.2U
Benzene	ug/l	5		<0.07U	<0.07U	<0.07U	0.11J	<0.07U	<0.07U
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Chlorobenzene	ug/l	100		<0.14U	<0.14U	<0.14U	<0.14U	<0.14U	<0.14U
Cymene	ug/l	**		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U
Diethyl ether	ug/l	**		<0.21U	<0.21U	<0.21U	0.28J	<0.21U	<0.21U
Isopropyl benzene	ug/l	**		<0.14U	<0.14U	<0.14U	<0.14U	<0.14U	<0.14U
Isopropyl Ether	ug/l	**		5.8	5.1	<0.21U	<0.21U	<0.21U	<0.21U
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Methyl chloride	ug/l	**		<0.22U	<0.22U	<0.22U	0.24J	<0.22U	<0.22U

Print Date: 02/10/2017

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** No Applicable Regulatory Standard

Exceedences of the regulatory standard are printed in bold. # = Reporting limit exceeds regulatory standard. NOC = Not of Concern.

QUALIFIERS: U = Constituent not detected above Method Detection Limit (MDL). J = Estimated Value. < = Indicates that the reported concentration is the Method Detection Limit (MDL). D = Compound identified at a secondary dilution factor. B = Analyte reported in associated field or trip blank. N = Tentatively Identified Compound (TIC). Y = Tentatively Identified Compound (TIC) also identified in Method Blank. E = Reported result is over instrument calibration range. This result is an estimate; the true result may be higher. C = Calibration verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted. F1 = MS and/or MSD Recovery is outside acceptable limits.

Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 02/29/2016-01/12/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C
			Date:	02/29/2016	03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016
			Depth (ft):	0	0	0	0	0	0
Methyl ethyl ketone	ug/l	**		3.4	6.2	2.8	10.6	6	11
Methyl tert-butyl ether	ug/l	20		451	368	486	479	458	369
Methylene chloride	ug/l	5		<0.32U	<0.32U	<0.32U	<0.32U	<0.32U	<0.32U
sec-Butylbenzene	ug/l	**		<0.1U	0.11J	0.11J	<0.1U	<0.1U	<0.1U
Tert-Amyl alcohol	ug/l	**		152E	<160U	141E	151E	<80U	<160U
tert-Butylalcohol	ug/l	**		4450	3560	4190	4480	4780	3400
Tetrahydrofuran	ug/l	**		<0.81U	1.2J	<0.81U	0.88J	<0.81U	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U
<i>-----</i>									
<i>Volatile/Semi-Volatile Organic Compounds (V/SVOCs)</i>									
Hexachlorobutadiene	ug/l	**		<0.24U	<0.24U	<0.24U	<0.24U	<0.24U	<0.24U
m-Dichlorobenzene	ug/l	**		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U
o-Dichlorobenzene	ug/l	600		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
p-Dichlorobenzene	ug/l	75		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U
<i>-----</i>									
Constituent	Unit	*Standard	Location:	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C
			Date:	08/18/2016	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017
			Depth (ft):	0	0	0	0	0	0
<i>-----</i>									
<i>Not Otherwise Specified</i>									
2-Nitropropane	ug/l	**		<0.8U	<0.8U	<0.8U	<0.8U	<0.8U	<0.8U

** No Applicable Regulatory Standard

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Analytical Chemistry Report

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Constituent	Unit	*Standard	Location:	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C
			Date:	08/18/2016	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017
			Depth (ft):	0	0	0	0	0	0
Chlorine	ug/l	4000		17J	<9U	-	-	6.7J	-
Methyl iodide	ug/l	**		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
Tert-Amyl Methyl Ether	ug/l	**		2.6	3.5	4	4	3.8	3.9
<i>-----</i>									
<i>Volatile Organic Compounds (VOCs)</i>									
1,1-Dichloroethane	ug/l	**		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U
1,2-Dichloroethane	ug/l	5		10.8	<0.15U	12.7	13.3	12.6	13
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		37.1	26.7	20.7	32.4	12.5	28.4
Benzene	ug/l	5		<0.07U	<0.07U	<0.07U	0.1J	<0.07U	<0.07U
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Chlorobenzene	ug/l	100		<0.14U	<0.14U	<0.14U	<0.14U	<0.14U	<0.14U
Cymene	ug/l	**		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U
Diethyl ether	ug/l	**		<0.21U	0.25J	<0.21U	0.3J	<0.21U	<0.21U
Isopropyl benzene	ug/l	**		<0.14U	<0.14U	<0.14U	<0.14U	<0.14U	<0.14U
Isopropyl Ether	ug/l	**		5.7	<0.21U	<0.21U	7	<0.21U	6.2
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	0.18J	<0.13U	<0.13U
Methyl chloride	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
Methyl ethyl ketone	ug/l	**		6.8	7	7.9	5.4	6.9	7.9
Methyl tert-butyl ether	ug/l	20		480	424	455	481	433	461
Methylene chloride	ug/l	5		<0.32U	<0.32U	<0.32U	<0.32U	<0.32U	<0.32U

Print Date: 02/10/2017

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Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C
			Date:	08/18/2016	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017
			Depth (ft):	0	0	0	0	0	0
sec-Butylbenzene	ug/l	**		<0.1U	<0.1U	<0.1U	0.12J	<0.1U	<0.1U
Tert-Amyl alcohol	ug/l	**		<160U	223J	<160U	<160U	197J	205
tert-Butylalcohol	ug/l	**		5430	4410	4440	4550	4140	5590
Tetrahydrofuran	ug/l	**		<0.81U	<0.81U	<0.81U	1.1J	<0.81U	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U
<i>-----</i>									
<i>Volatile/Semi-Volatile Organic Compounds (V/SVOCs)</i>									
Hexachlorobutadiene	ug/l	**		<0.24U	<0.24U	<0.24U	<0.24U	<0.24U	<0.24U
m-Dichlorobenzene	ug/l	**		<0.11U	<0.11U	<0.11U	0.13J	<0.11U	<0.11U
o-Dichlorobenzene	ug/l	600		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
p-Dichlorobenzene	ug/l	75		<0.11U	<0.11U	<0.11U	0.13J	<0.11U	<0.11U

** No Applicable Regulatory Standard

Exceedences of the regulatory standard are printed in bold. # = Reporting limit exceeds regulatory standard. NOC = Not of Concern.

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 02/29/2016-01/12/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I
			Date:	02/29/2016	03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
Chlorine	ug/l	4000		-	-	<9U	-	-	-
Isopropanol	ug/l	**		16.7J	<3.9U	<3.9U	<3.9U	<3.9U	<3.9U
Methyl iodide	ug/l	**		<0.19U	0.33J	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
Tert-Amyl Methyl Ether	ug/l	**		<0.15U	<0.15U	<0.15U	<0.15U	<0.15U	0.27J
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		6.2	12.3	<2.2U	20.9	7.4	16.4
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Methyl ethyl ketone	ug/l	**		<1.3U	5.5	<1.3U	11.8	5.7	7.5
Methyl tert-butyl ether	ug/l	20		333	302	440	511	477	374
Tert-Amyl alcohol	ug/l	**		146E	<160U	<80U	189E	156J	<160U
tert-Butylalcohol	ug/l	**		4050	3830	4480	4960	4660	1860
Tetrahydrofuran	ug/l	**		2.1J	1.5J	<0.81U	1.4J	<0.81U	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland Project No.: 005977

**Matrix: Drinking Water
Sample Dates: 02/29/2016-01/12/2017**

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I
			Date:	08/18/2016	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
Chlorine	ug/l	4000		<9U	<9U	-	-	6.7J	-
Isopropanol	ug/l	**		<3.9U	<3.9U	<3.9U	<3.9U	<3.9U	<3.9U
Methyl iodide	ug/l	**		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
Tert-Amyl Methyl Ether	ug/l	**		<0.15U	<0.15U	<0.15U	<0.15U	<0.15U	<0.15U
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		11.2	8.2	12.8	40.1	16.3	23
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Methyl ethyl ketone	ug/l	**		7.7	5.1	7.2	5.2	9.2	7.6
Methyl tert-butyl ether	ug/l	20		608	0.61	0.67	1.6	2.1	8.8
Tert-Amyl alcohol	ug/l	**		187J	36.6	52.6	68	75.6	138
tert-Butylalcohol	ug/l	**		5570	4620	4300	5640	4130	5550
Tetrahydrofuran	ug/l	**		<0.81U	2.2J	2.5J	2.8	1.6J	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 02/29/2016-01/12/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

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Project No.: 005977

Matrix: Drinking Water

Sample Dates: 02/29/2016-01/12/2017

Regulatory Standard*:

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Constituent	Unit	*Standard	Location:	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J
			Date:	02/29/2016	03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
Isopropanol	ug/l	**		11J	<3.9U	<3.9U	4.2J	<3.9U	<3.9U
Methyl iodide	ug/l	**		<0.19U	0.28J	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		5.3	8.5	4.4J	14	7.1	32.8
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Methyl ethyl ketone	ug/l	**		<1.3U	5.2	<1.3U	11	6.8	8.4
Methyl tert-butyl ether	ug/l	20		1.4	2.2	12.9	63.5	108	182
n-Butylbenzene	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Tert-Amyl alcohol	ug/l	**		<1.6U	42.9	101	160E	191J	198J
tert-Butylalcohol	ug/l	**		4380	3680	4470	5300	4790	3480
Tetrahydrofuran	ug/l	**		3.3	2.2J	2.7	2.1J	<0.81U	1.7J
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U
trans-1,2-Di-chloroethylene	ug/l	100		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U

Print Date: 02/10/2017

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Project No.: 005977

Matrix: Drinking Water

Sample Dates: 02/29/2016-01/12/2017

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Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J
			Date:	08/18/2016	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
Isopropanol	ug/l	**		<3.9U	<3.9U	<3.9U	<3.9U	<3.9U	<3.9U
Methyl iodide	ug/l	**		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		42.7	12.7	21.7	21.8	12.9	26.5
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Methyl bromide	ug/l	**		<0.13U	<0.13U	0.19J	<0.13U	<0.13U	<0.13U
Methyl ethyl ketone	ug/l	**		7.3	5.6	7.4	6.1	8.2	<1.3U
Methyl tert-butyl ether	ug/l	20		300	375	387	406	332	278
n-Butylbenzene	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Tert-Amyl alcohol	ug/l	**		<160U	280J	210	<160U	<160U	127
tert-Butylalcohol	ug/l	**		5050	4370	3930	4880	3860	5330
Tetrahydrofuran	ug/l	**		<0.81U	1.3J	1.4J	2.1J	1.9J	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U
trans-1,2-Di-chloroethylene	ug/l	100		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 02/29/2016-01/12/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

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Constituent	Unit	*Standard	Location:	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K
			Date:	02/29/2016	03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
Isopropanol	ug/l	**		<3.9U	<3.9U	<3.9U	5.7J	<3.9U	<3.9U
Methyl iodide	ug/l	**		<0.19U	0.29J	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
2-Hexanone	ug/l	**		<0.82U	<0.82U	<0.82U	<0.82U	<0.82U	<0.82U
Acetone	ug/l	**		3.1J	7.7	6.4	12.6	10.2	19.1
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	0.13J	<0.13U	<0.13U
Methyl ethyl ketone	ug/l	**		<1.3U	5.8	<1.3U	11.9	9.6	9.8
Methyl tert-butyl ether	ug/l	20		<0.09U	0.14J	0.2J	0.81	0.35J	0.74
Methylene chloride	ug/l	5		<0.32U	<0.32U	<0.32U	<0.32U	<0.32U	<0.32U
Tert-Amyl alcohol	ug/l	**		11.1	12.6	17.2	20.3	25.4	9.7
tert-Butylalcohol	ug/l	**		4490	4180	5330	5180	5400	3780
Tetrachloroethylene	ug/l	5		<0.17U	<0.17U	<0.17U	<0.17U	<0.17U	<0.17U
Tetrahydrofuran	ug/l	**		3.7	6.1	4.5	3.1	3.7	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U

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Project No.: 005977

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Regulatory Standard*:

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Constituent	Unit	*Standard	Location: Date: Depth (ft):	DW-004K 08/18/2016 0	DW-004K 09/16/2016 0	DW-004K 10/21/2016 0	DW-004K 11/10/2016 0	DW-004K 12/01/2016 0	DW-004K 01/12/2017 0
<i>Not Otherwise Specified</i>									
Isopropanol	ug/l	**		<3.9U	<3.9U	<3.9U	<3.9U	<3.9U	<3.9U
Methyl iodide	ug/l	**		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
2-Hexanone	ug/l	**		<0.82U	<0.82U	<0.82U	<0.82U	<0.82U	<0.82U
Acetone	ug/l	**		14.7	7.6	5.9	13	9	13.6
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Methyl ethyl ketone	ug/l	**		7	5	<1.3U	4.7	6.6	<1.3U
Methyl tert-butyl ether	ug/l	20		0.99	<0.09U	0.65	0.5J	0.12J	1.2
Methylene chloride	ug/l	5		<0.32U	<0.32U	<0.32U	<0.32U	<0.32U	<0.32U
Tert-Amyl alcohol	ug/l	**		26.6	<1.6U	6.6	7.7	4.6J	<1.6U
tert-Butylalcohol	ug/l	**		5420	10.9	4320	5610	3820	4770
Tetrachloroethylene	ug/l	5		<0.17U	<0.17U	<0.17U	<0.17U	<0.17U	<0.17U
Tetrahydrofuran	ug/l	**		2.5J	<0.81U	<0.81U	2.1J	1.6J	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U

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Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

** No Applicable Regulatory Standard

Exceedences of the regulatory standard are printed in bold. # = Reporting limit exceeds regulatory standard. NOC = Not of Concern.

QUALIFIERS: U = Constituent not detected above Method Detection Limit (MDL). J = Estimated Value. < = Indicates that the reported concentration is the Method Detection Limit (MDL). D = Compound identified at a secondary dilution factor. B = Analyte reported in associated field or trip blank. N = Tentatively Identified Compound (TIC). Y = Tentatively Identified Compound (TIC) also identified in Method Blank. E = Reported result is over instrument calibration range. This result is an estimate; the true result may be higher. C = Calibration verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted. F1 = MS and/or MSD Recovery is outside acceptable limits.

January 19, 2017

Mr. James Manuel
REPSG
6901 Kingsessing Avenue
Philadelphia, PA 19142

Certificate of Analysis

Project Name:	2017-CALVERT CITGO/5977	Workorder:	2201987
Purchase Order:	13618	Workorder ID:	2017-CALVERT CITGO/5977

Dear Mr. Manuel:

Enclosed are the analytical results for samples received by the laboratory on Friday, January 13, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Susan J Scherer (Project Coordinator) at (717) 944-5541.

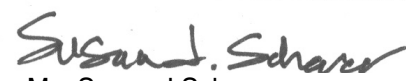
Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Natalie Griffith , Ms. S Shourds

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Ms. Susan J Scherer
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2201987001	DW-004K	Drinking Water	1/12/2017 10:10	1/13/2017 19:15	Collected by Client
2201987002	DW-004J	Drinking Water	1/12/2017 10:15	1/13/2017 19:15	Collected by Client
2201987003	DW-004I	Drinking Water	1/12/2017 10:20	1/13/2017 19:15	Collected by Client
2201987004	DW-004C	Drinking Water	1/12/2017 10:25	1/13/2017 19:15	Collected by Client

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SAMPLE SUMMARY

Workorder: 2201987 2017-CALVERT CITGO/5977

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987001**

Date Collected: 1/12/2017 10:10

Matrix: Drinking Water

Sample ID: **DW-004K**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	13.6		ug/L	5.0	2.2	EPA 524.2		1/19/17 01:16	CJG	D
Acrylonitrile	ND		ug/L	2.5	0.88	EPA 524.2		1/19/17 01:16	CJG	D
tert-Amyl methyl ether	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:16	CJG	D
tert-Amyl Alcohol	ND		ug/L	5.0	1.6	EPA 524.2		1/19/17 01:16	CJG	D
tert-Amyl Ethylether	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 01:16	CJG	D
Benzene	ND		ug/L	0.50	0.070	EPA 524.2		1/19/17 01:16	CJG	D
Bromobenzene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:16	CJG	D
Bromochloromethane	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 01:16	CJG	D
Bromodichloromethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:16	CJG	D
Bromoform	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:16	CJG	D
Bromomethane	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 01:16	CJG	D
2-Butanone	ND		ug/L	2.5	1.3	EPA 524.2		1/19/17 01:16	CJG	D
tert-Butyl Alcohol	4770		ug/L	500	140	EPA 524.2		1/18/17 02:55	CJG	B
n-Butylbenzene	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 01:16	CJG	D
tert-Butylbenzene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 01:16	CJG	D
sec-Butylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 01:16	CJG	D
Carbon Disulfide	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:16	CJG	D
Carbon Tetrachloride	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 01:16	CJG	D
Chloroacetonitrile	ND		ug/L	2.5	0.88	EPA 524.2		1/19/17 01:16	CJG	D
Chlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 01:16	CJG	D
1-Chlorobutane	ND		ug/L	1.0	0.28	EPA 524.2		1/19/17 01:16	CJG	D
Chlorodibromomethane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 01:16	CJG	D
Chloroethane	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 01:16	CJG	D
Chloroform	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:16	CJG	D
Chloromethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:16	CJG	D
3-Chloro-1-propene	ND		ug/L	0.50	0.17	EPA 524.2		1/19/17 01:16	CJG	D
o-Chlorotoluene	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:16	CJG	D
p-Chlorotoluene	ND		ug/L	0.50	0.16	EPA 524.2		1/19/17 01:16	CJG	D
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:16	CJG	D
1,2-Dibromoethane	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:16	CJG	D
Dibromomethane	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 01:16	CJG	D
trans-1,4-Dichloro-2-butene	ND		ug/L	1.0	0.27	EPA 524.2		1/19/17 01:16	CJG	D
1,1-Dichloro-2-Propanone	ND		ug/L	12.5	2.2	EPA 524.2		1/19/17 01:16	CJG	D
1,2-Dichlorobenzene	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 01:16	CJG	D
1,3-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:16	CJG	D
1,4-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:16	CJG	D

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ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987001**

Date Collected: 1/12/2017 10:10

Matrix: Drinking Water

Sample ID: **DW-004K**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Dichlorodifluoromethane	ND	8	ug/L	0.50	0.22	EPA 524.2		1/19/17 01:16	CJG	D
1,1-Dichloroethane	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:16	CJG	D
1,2-Dichloroethane	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:16	CJG	D
1,1-Dichloroethene	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:16	CJG	D
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:16	CJG	D
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:16	CJG	D
Dichlorofluoromethane	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:16	CJG	D
1,3-Dichloropropane	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 01:16	CJG	D
2,2-Dichloropropane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 01:16	CJG	D
1,2-Dichloropropane	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:16	CJG	D
1,1-Dichloropropene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 01:16	CJG	D
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:16	CJG	D
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 01:16	CJG	D
1,3-Dichloropropene, Total	ND		ug/L	1.0	0.23	EPA 524.2		1/19/17 01:16	CJG	D
Diisopropyl ether	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:16	CJG	D
1,4-Dioxane	ND		ug/L	4.0	4.0	EPA 524.2		1/19/17 01:16	CJG	D
Ethyl Ether	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:16	CJG	D
Ethyl Methacrylate	ND		ug/L	0.50	0.16	EPA 524.2		1/19/17 01:16	CJG	D
Ethyl tert-butyl ether	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:16	CJG	D
Ethylbenzene	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 01:16	CJG	D
Hexachlorobutadiene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 01:16	CJG	D
Hexachloroethane	ND		ug/L	1.0	0.32	EPA 524.2		1/19/17 01:16	CJG	D
Hexane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:16	CJG	D
2-Hexanone	ND		ug/L	2.5	0.82	EPA 524.2		1/19/17 01:16	CJG	D
Iodomethane	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:16	CJG	D
Isopropyl Alcohol	ND		ug/L	25.0	3.9	EPA 524.2		1/19/17 01:16	CJG	D
Isopropylbenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 01:16	CJG	D
p-Isopropyltoluene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:16	CJG	D
Methacrylonitrile	ND		ug/L	1.0	0.23	EPA 524.2		1/19/17 01:16	CJG	D
Methyl methacrylate	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 01:16	CJG	D
Methyl acrylate	ND		ug/L	1.0	0.21	EPA 524.2		1/19/17 01:16	CJG	D
Methyl t-Butyl Ether	1.2		ug/L	0.50	0.090	EPA 524.2		1/19/17 01:16	CJG	D
4-Methyl-2-Pentanone(MIBK)	ND		ug/L	2.5	0.56	EPA 524.2		1/19/17 01:16	CJG	D
Methylene Chloride	ND		ug/L	0.50	0.32	EPA 524.2		1/19/17 01:16	CJG	D
Naphthalene	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:16	CJG	D
Nitrobenzene	ND		ug/L	5.0	1.8	EPA 524.2		1/19/17 01:16	CJG	D
2-Nitropropane	ND		ug/L	2.5	0.80	EPA 524.2		1/19/17 01:16	CJG	D
Pentachloroethane	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:16	CJG	D

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ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987001**

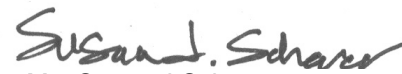
Date Collected: 1/12/2017 10:10

Matrix: Drinking Water

Sample ID: **DW-004K**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Propionitrile	ND		ug/L	2.5	0.70	EPA 524.2		1/19/17 01:16	CJG	D	
n-Propylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 01:16	CJG	D	
Styrene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:16	CJG	D	
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:16	CJG	D	
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 01:16	CJG	D	
Tetrachloroethene	ND		ug/L	0.50	0.17	EPA 524.2		1/19/17 01:16	CJG	D	
Tetrahydrofuran	ND		ug/L	2.5	0.81	EPA 524.2		1/19/17 01:16	CJG	D	
Toluene	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 01:16	CJG	D	
Total Xylenes	ND		ug/L	0.50	0.27	EPA 524.2		1/19/17 01:16	CJG	D	
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:16	CJG	D	
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 01:16	CJG	D	
1,1,1-Trichloroethane	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:16	CJG	D	
1,1,2-Trichloroethane	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 01:16	CJG	D	
Trichloroethene	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:16	CJG	D	
Trichlorofluoromethane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 01:16	CJG	D	
1,2,3-Trichloropropane	ND		ug/L	0.50	0.28	EPA 524.2		1/19/17 01:16	CJG	D	
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:16	CJG	D	
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:16	CJG	D	
Vinyl Acetate	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:16	CJG	D	
Vinyl Chloride	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:16	CJG	D	
o-Xylene	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 01:16	CJG	D	
mp-Xylene	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:16	CJG	D	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichlorobenzene-d4 (S)	80.6		%	70 - 130		EPA 524.2			1/19/17 01:16	CJG	D
1,2-Dichlorobenzene-d4 (S)	72.2		%	70 - 130		EPA 524.2			1/18/17 02:55	CJG	B
4-Bromofluorobenzene (S)	88		%	70 - 130		EPA 524.2			1/18/17 02:55	CJG	B
4-Bromofluorobenzene (S)	90		%	70 - 130		EPA 524.2			1/19/17 01:16	CJG	D



Ms. Susan J Scherer

Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987002**

Date Collected: 1/12/2017 10:15

Matrix: Drinking Water

Sample ID: **DW-004J**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	26.5		ug/L	5.0	2.2	EPA 524.2		1/19/17 01:40	CJG	C
Acrylonitrile	ND		ug/L	2.5	0.88	EPA 524.2		1/19/17 01:40	CJG	C
tert-Amyl methyl ether	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:40	CJG	C
tert-Amyl Alcohol	127		ug/L	5.0	1.6	EPA 524.2		1/19/17 01:40	CJG	C
tert-Amyl Ethylether	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 01:40	CJG	C
Benzene	ND		ug/L	0.50	0.070	EPA 524.2		1/19/17 01:40	CJG	C
Bromobenzene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:40	CJG	C
Bromochloromethane	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 01:40	CJG	C
Bromodichloromethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:40	CJG	C
Bromoform	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:40	CJG	C
Bromomethane	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 01:40	CJG	C
2-Butanone	ND		ug/L	2.5	1.3	EPA 524.2		1/19/17 01:40	CJG	C
tert-Butyl Alcohol	5330		ug/L	500	140	EPA 524.2		1/18/17 03:20	CJG	B
n-Butylbenzene	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 01:40	CJG	C
tert-Butylbenzene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 01:40	CJG	C
sec-Butylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 01:40	CJG	C
Carbon Disulfide	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:40	CJG	C
Carbon Tetrachloride	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 01:40	CJG	C
Chloroacetonitrile	ND		ug/L	2.5	0.88	EPA 524.2		1/19/17 01:40	CJG	C
Chlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 01:40	CJG	C
1-Chlorobutane	ND		ug/L	1.0	0.28	EPA 524.2		1/19/17 01:40	CJG	C
Chlorodibromomethane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 01:40	CJG	C
Chloroethane	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 01:40	CJG	C
Chloroform	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:40	CJG	C
Chloromethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:40	CJG	C
3-Chloro-1-propene	ND		ug/L	0.50	0.17	EPA 524.2		1/19/17 01:40	CJG	C
o-Chlorotoluene	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:40	CJG	C
p-Chlorotoluene	ND		ug/L	0.50	0.16	EPA 524.2		1/19/17 01:40	CJG	C
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:40	CJG	C
1,2-Dibromoethane	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:40	CJG	C
Dibromomethane	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 01:40	CJG	C
trans-1,4-Dichloro-2-butene	ND		ug/L	1.0	0.27	EPA 524.2		1/19/17 01:40	CJG	C
1,1-Dichloro-2-Propanone	ND		ug/L	12.5	2.2	EPA 524.2		1/19/17 01:40	CJG	C
1,2-Dichlorobenzene	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 01:40	CJG	C
1,3-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:40	CJG	C
1,4-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:40	CJG	C

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ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987002**

Date Collected: 1/12/2017 10:15

Matrix: Drinking Water

Sample ID: **DW-004J**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Dichlorodifluoromethane	ND	9	ug/L	0.50	0.22	EPA 524.2		1/19/17 01:40	CJG	C
1,1-Dichloroethane	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:40	CJG	C
1,2-Dichloroethane	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:40	CJG	C
1,1-Dichloroethene	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:40	CJG	C
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:40	CJG	C
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:40	CJG	C
Dichlorofluoromethane	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:40	CJG	C
1,3-Dichloropropane	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 01:40	CJG	C
2,2-Dichloropropane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 01:40	CJG	C
1,2-Dichloropropane	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:40	CJG	C
1,1-Dichloropropene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 01:40	CJG	C
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:40	CJG	C
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 01:40	CJG	C
1,3-Dichloropropene, Total	ND		ug/L	1.0	0.23	EPA 524.2		1/19/17 01:40	CJG	C
Diisopropyl ether	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:40	CJG	C
1,4-Dioxane	ND		ug/L	4.0	4.0	EPA 524.2		1/19/17 01:40	CJG	C
Ethyl Ether	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:40	CJG	C
Ethyl Methacrylate	ND		ug/L	0.50	0.16	EPA 524.2		1/19/17 01:40	CJG	C
Ethyl tert-butyl ether	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:40	CJG	C
Ethylbenzene	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 01:40	CJG	C
Hexachlorobutadiene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 01:40	CJG	C
Hexachloroethane	ND		ug/L	1.0	0.32	EPA 524.2		1/19/17 01:40	CJG	C
Hexane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:40	CJG	C
2-Hexanone	ND		ug/L	2.5	0.82	EPA 524.2		1/19/17 01:40	CJG	C
Iodomethane	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 01:40	CJG	C
Isopropyl Alcohol	ND		ug/L	25.0	3.9	EPA 524.2		1/19/17 01:40	CJG	C
Isopropylbenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 01:40	CJG	C
p-Isopropyltoluene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:40	CJG	C
Methacrylonitrile	ND		ug/L	1.0	0.23	EPA 524.2		1/19/17 01:40	CJG	C
Methyl methacrylate	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 01:40	CJG	C
Methyl acrylate	ND		ug/L	1.0	0.21	EPA 524.2		1/19/17 01:40	CJG	C
Methyl t-Butyl Ether	278		ug/L	50.0	9.0	EPA 524.2		1/18/17 03:20	CJG	B
4-Methyl-2-Pentanone(MIBK)	ND		ug/L	2.5	0.56	EPA 524.2		1/19/17 01:40	CJG	C
Methylene Chloride	ND		ug/L	0.50	0.32	EPA 524.2		1/19/17 01:40	CJG	C
Naphthalene	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:40	CJG	C
Nitrobenzene	ND		ug/L	5.0	1.8	EPA 524.2		1/19/17 01:40	CJG	C
2-Nitropropane	ND		ug/L	2.5	0.80	EPA 524.2		1/19/17 01:40	CJG	C
Pentachloroethane	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:40	CJG	C

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ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987002**

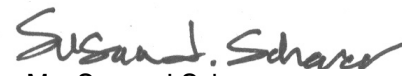
Date Collected: 1/12/2017 10:15

Matrix: Drinking Water

Sample ID: **DW-004J**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Propionitrile	ND		ug/L	2.5	0.70	EPA 524.2		1/19/17 01:40	CJG	C	
n-Propylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 01:40	CJG	C	
Styrene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:40	CJG	C	
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:40	CJG	C	
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 01:40	CJG	C	
Tetrachloroethene	ND		ug/L	0.50	0.17	EPA 524.2		1/19/17 01:40	CJG	C	
Tetrahydrofuran	ND		ug/L	2.5	0.81	EPA 524.2		1/19/17 01:40	CJG	C	
Toluene	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 01:40	CJG	C	
Total Xylenes	ND		ug/L	0.50	0.27	EPA 524.2		1/19/17 01:40	CJG	C	
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:40	CJG	C	
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 01:40	CJG	C	
1,1,1-Trichloroethane	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 01:40	CJG	C	
1,1,2-Trichloroethane	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 01:40	CJG	C	
Trichloroethene	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:40	CJG	C	
Trichlorofluoromethane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 01:40	CJG	C	
1,2,3-Trichloropropane	ND		ug/L	0.50	0.28	EPA 524.2		1/19/17 01:40	CJG	C	
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:40	CJG	C	
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 01:40	CJG	C	
Vinyl Acetate	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 01:40	CJG	C	
Vinyl Chloride	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 01:40	CJG	C	
o-Xylene	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 01:40	CJG	C	
mp-Xylene	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 01:40	CJG	C	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichlorobenzene-d4 (S)	79.6		%	70 - 130		EPA 524.2			1/19/17 01:40	CJG	C
1,2-Dichlorobenzene-d4 (S)	76.2		%	70 - 130		EPA 524.2			1/18/17 03:20	CJG	B
4-Bromofluorobenzene (S)	87.4		%	70 - 130		EPA 524.2			1/18/17 03:20	CJG	B
4-Bromofluorobenzene (S)	99		%	70 - 130		EPA 524.2			1/19/17 01:40	CJG	C



Ms. Susan J Scherer

Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987003**

Date Collected: 1/12/2017 10:20

Matrix: Drinking Water

Sample ID: **DW-004I**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	23.0		ug/L	5.0	2.2	EPA 524.2		1/19/17 02:04	CJG	C
Acrylonitrile	ND		ug/L	2.5	0.88	EPA 524.2		1/19/17 02:04	CJG	C
tert-Amyl methyl ether	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:04	CJG	C
tert-Amyl Alcohol	138		ug/L	5.0	1.6	EPA 524.2		1/19/17 02:04	CJG	C
tert-Amyl Ethylether	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 02:04	CJG	C
Benzene	ND		ug/L	0.50	0.070	EPA 524.2		1/19/17 02:04	CJG	C
Bromobenzene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:04	CJG	C
Bromochloromethane	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 02:04	CJG	C
Bromodichloromethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:04	CJG	C
Bromoform	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:04	CJG	C
Bromomethane	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 02:04	CJG	C
2-Butanone	7.6		ug/L	2.5	1.3	EPA 524.2		1/19/17 02:04	CJG	C
tert-Butyl Alcohol	5550		ug/L	500	140	EPA 524.2		1/18/17 03:44	CJG	B
n-Butylbenzene	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 02:04	CJG	C
tert-Butylbenzene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 02:04	CJG	C
sec-Butylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 02:04	CJG	C
Carbon Disulfide	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:04	CJG	C
Carbon Tetrachloride	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 02:04	CJG	C
Chloroacetonitrile	ND		ug/L	2.5	0.88	EPA 524.2		1/19/17 02:04	CJG	C
Chlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 02:04	CJG	C
1-Chlorobutane	ND		ug/L	1.0	0.28	EPA 524.2		1/19/17 02:04	CJG	C
Chlorodibromomethane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 02:04	CJG	C
Chloroethane	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 02:04	CJG	C
Chloroform	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:04	CJG	C
Chloromethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:04	CJG	C
3-Chloro-1-propene	ND		ug/L	0.50	0.17	EPA 524.2		1/19/17 02:04	CJG	C
o-Chlorotoluene	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:04	CJG	C
p-Chlorotoluene	ND		ug/L	0.50	0.16	EPA 524.2		1/19/17 02:04	CJG	C
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:04	CJG	C
1,2-Dibromoethane	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:04	CJG	C
Dibromomethane	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 02:04	CJG	C
trans-1,4-Dichloro-2-butene	ND		ug/L	1.0	0.27	EPA 524.2		1/19/17 02:04	CJG	C
1,1-Dichloro-2-Propanone	ND		ug/L	12.5	2.2	EPA 524.2		1/19/17 02:04	CJG	C
1,2-Dichlorobenzene	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 02:04	CJG	C
1,3-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:04	CJG	C
1,4-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:04	CJG	C

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987003**

Date Collected: 1/12/2017 10:20

Matrix: Drinking Water

Sample ID: **DW-0041**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Dichlorodifluoromethane	ND	9	ug/L	0.50	0.22	EPA 524.2		1/19/17 02:04	CJG	C
1,1-Dichloroethane	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:04	CJG	C
1,2-Dichloroethane	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:04	CJG	C
1,1-Dichloroethene	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:04	CJG	C
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:04	CJG	C
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:04	CJG	C
Dichlorofluoromethane	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:04	CJG	C
1,3-Dichloropropane	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 02:04	CJG	C
2,2-Dichloropropane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 02:04	CJG	C
1,2-Dichloropropane	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:04	CJG	C
1,1-Dichloropropene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 02:04	CJG	C
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:04	CJG	C
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 02:04	CJG	C
1,3-Dichloropropene, Total	ND		ug/L	1.0	0.23	EPA 524.2		1/19/17 02:04	CJG	C
Diisopropyl ether	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:04	CJG	C
1,4-Dioxane	ND		ug/L	4.0	4.0	EPA 524.2		1/19/17 02:04	CJG	C
Ethyl Ether	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:04	CJG	C
Ethyl Methacrylate	ND		ug/L	0.50	0.16	EPA 524.2		1/19/17 02:04	CJG	C
Ethyl tert-butyl ether	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:04	CJG	C
Ethylbenzene	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 02:04	CJG	C
Hexachlorobutadiene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 02:04	CJG	C
Hexachloroethane	ND		ug/L	1.0	0.32	EPA 524.2		1/19/17 02:04	CJG	C
Hexane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:04	CJG	C
2-Hexanone	ND		ug/L	2.5	0.82	EPA 524.2		1/19/17 02:04	CJG	C
Iodomethane	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:04	CJG	C
Isopropyl Alcohol	ND		ug/L	25.0	3.9	EPA 524.2		1/19/17 02:04	CJG	C
Isopropylbenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 02:04	CJG	C
p-Isopropyltoluene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:04	CJG	C
Methacrylonitrile	ND		ug/L	1.0	0.23	EPA 524.2		1/19/17 02:04	CJG	C
Methyl methacrylate	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 02:04	CJG	C
Methyl acrylate	ND		ug/L	1.0	0.21	EPA 524.2		1/19/17 02:04	CJG	C
Methyl t-Butyl Ether	8.8		ug/L	0.50	0.090	EPA 524.2		1/19/17 02:04	CJG	C
4-Methyl-2-Pentanone(MIBK)	ND		ug/L	2.5	0.56	EPA 524.2		1/19/17 02:04	CJG	C
Methylene Chloride	ND		ug/L	0.50	0.32	EPA 524.2		1/19/17 02:04	CJG	C
Naphthalene	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:04	CJG	C
Nitrobenzene	ND		ug/L	5.0	1.8	EPA 524.2		1/19/17 02:04	CJG	C
2-Nitropropane	ND		ug/L	2.5	0.80	EPA 524.2		1/19/17 02:04	CJG	C
Pentachloroethane	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:04	CJG	C

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ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987003**

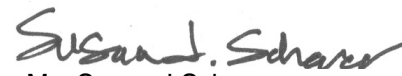
Date Collected: 1/12/2017 10:20

Matrix: Drinking Water

Sample ID: **DW-004I**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Propionitrile	ND		ug/L	2.5	0.70	EPA 524.2		1/19/17 02:04	CJG	C	
n-Propylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 02:04	CJG	C	
Styrene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:04	CJG	C	
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:04	CJG	C	
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 02:04	CJG	C	
Tetrachloroethene	ND		ug/L	0.50	0.17	EPA 524.2		1/19/17 02:04	CJG	C	
Tetrahydrofuran	ND		ug/L	2.5	0.81	EPA 524.2		1/19/17 02:04	CJG	C	
Toluene	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 02:04	CJG	C	
Total Xylenes	ND		ug/L	0.50	0.27	EPA 524.2		1/19/17 02:04	CJG	C	
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:04	CJG	C	
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 02:04	CJG	C	
1,1,1-Trichloroethane	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:04	CJG	C	
1,1,2-Trichloroethane	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 02:04	CJG	C	
Trichloroethene	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:04	CJG	C	
Trichlorofluoromethane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 02:04	CJG	C	
1,2,3-Trichloropropane	ND		ug/L	0.50	0.28	EPA 524.2		1/19/17 02:04	CJG	C	
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:04	CJG	C	
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:04	CJG	C	
Vinyl Acetate	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:04	CJG	C	
Vinyl Chloride	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:04	CJG	C	
o-Xylene	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 02:04	CJG	C	
mp-Xylene	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:04	CJG	C	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichlorobenzene-d4 (S)	81.9		%	70 - 130		EPA 524.2			1/19/17 02:04	CJG	C
1,2-Dichlorobenzene-d4 (S)	76.4		%	70 - 130		EPA 524.2			1/18/17 03:44	CJG	B
4-Bromofluorobenzene (S)	85.6		%	70 - 130		EPA 524.2			1/18/17 03:44	CJG	B
4-Bromofluorobenzene (S)	101		%	70 - 130		EPA 524.2			1/19/17 02:04	CJG	C



Ms. Susan J Scherer
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987004**

Date Collected: 1/12/2017 10:25

Matrix: Drinking Water

Sample ID: **DW-004C**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	28.4		ug/L	5.0	2.2	EPA 524.2		1/19/17 02:28	CJG	C
Acrylonitrile	ND		ug/L	2.5	0.88	EPA 524.2		1/19/17 02:28	CJG	C
tert-Amyl methyl ether	3.9		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:28	CJG	C
tert-Amyl Alcohol	205		ug/L	5.0	1.6	EPA 524.2		1/19/17 02:28	CJG	C
tert-Amyl Ethylether	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 02:28	CJG	C
Benzene	ND		ug/L	0.50	0.070	EPA 524.2		1/19/17 02:28	CJG	C
Bromobenzene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:28	CJG	C
Bromochloromethane	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 02:28	CJG	C
Bromodichloromethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:28	CJG	C
Bromoform	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:28	CJG	C
Bromomethane	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 02:28	CJG	C
2-Butanone	7.9		ug/L	2.5	1.3	EPA 524.2		1/19/17 02:28	CJG	C
tert-Butyl Alcohol	5590		ug/L	500	140	EPA 524.2		1/18/17 04:08	CJG	B
n-Butylbenzene	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 02:28	CJG	C
tert-Butylbenzene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 02:28	CJG	C
sec-Butylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 02:28	CJG	C
Carbon Disulfide	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:28	CJG	C
Carbon Tetrachloride	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 02:28	CJG	C
Chloroacetonitrile	ND		ug/L	2.5	0.88	EPA 524.2		1/19/17 02:28	CJG	C
Chlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 02:28	CJG	C
1-Chlorobutane	ND		ug/L	1.0	0.28	EPA 524.2		1/19/17 02:28	CJG	C
Chlorodibromomethane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 02:28	CJG	C
Chloroethane	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 02:28	CJG	C
Chloroform	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:28	CJG	C
Chloromethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:28	CJG	C
3-Chloro-1-propene	ND		ug/L	0.50	0.17	EPA 524.2		1/19/17 02:28	CJG	C
o-Chlorotoluene	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:28	CJG	C
p-Chlorotoluene	ND		ug/L	0.50	0.16	EPA 524.2		1/19/17 02:28	CJG	C
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:28	CJG	C
1,2-Dibromoethane	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:28	CJG	C
Dibromomethane	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 02:28	CJG	C
trans-1,4-Dichloro-2-butene	ND		ug/L	1.0	0.27	EPA 524.2		1/19/17 02:28	CJG	C
1,1-Dichloro-2-Propanone	ND		ug/L	12.5	2.2	EPA 524.2		1/19/17 02:28	CJG	C
1,2-Dichlorobenzene	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 02:28	CJG	C
1,3-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:28	CJG	C
1,4-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:28	CJG	C

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ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987004**

Date Collected: 1/12/2017 10:25

Matrix: Drinking Water

Sample ID: **DW-004C**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Dichlorodifluoromethane	ND	9	ug/L	0.50	0.22	EPA 524.2		1/19/17 02:28	CJG	C
1,1-Dichloroethane	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:28	CJG	C
1,2-Dichloroethane	13.0		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:28	CJG	C
1,1-Dichloroethene	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:28	CJG	C
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:28	CJG	C
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:28	CJG	C
Dichlorofluoromethane	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:28	CJG	C
1,3-Dichloropropane	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 02:28	CJG	C
2,2-Dichloropropane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 02:28	CJG	C
1,2-Dichloropropane	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:28	CJG	C
1,1-Dichloropropene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 02:28	CJG	C
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:28	CJG	C
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 02:28	CJG	C
1,3-Dichloropropene, Total	ND		ug/L	1.0	0.23	EPA 524.2		1/19/17 02:28	CJG	C
Diisopropyl ether	6.2		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:28	CJG	C
1,4-Dioxane	ND		ug/L	4.0	4.0	EPA 524.2		1/19/17 02:28	CJG	C
Ethyl Ether	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:28	CJG	C
Ethyl Methacrylate	ND		ug/L	0.50	0.16	EPA 524.2		1/19/17 02:28	CJG	C
Ethyl tert-butyl ether	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:28	CJG	C
Ethylbenzene	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 02:28	CJG	C
Hexachlorobutadiene	ND		ug/L	0.50	0.24	EPA 524.2		1/19/17 02:28	CJG	C
Hexachloroethane	ND		ug/L	1.0	0.32	EPA 524.2		1/19/17 02:28	CJG	C
Hexane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:28	CJG	C
2-Hexanone	ND		ug/L	2.5	0.82	EPA 524.2		1/19/17 02:28	CJG	C
Iodomethane	ND		ug/L	0.50	0.19	EPA 524.2		1/19/17 02:28	CJG	C
Isopropyl Alcohol	ND		ug/L	25.0	3.9	EPA 524.2		1/19/17 02:28	CJG	C
Isopropylbenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 02:28	CJG	C
p-Isopropyltoluene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:28	CJG	C
Methacrylonitrile	ND		ug/L	1.0	0.23	EPA 524.2		1/19/17 02:28	CJG	C
Methyl methacrylate	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 02:28	CJG	C
Methyl acrylate	ND		ug/L	1.0	0.21	EPA 524.2		1/19/17 02:28	CJG	C
Methyl t-Butyl Ether	461		ug/L	50.0	9.0	EPA 524.2		1/18/17 04:08	CJG	B
4-Methyl-2-Pentanone(MIBK)	ND		ug/L	2.5	0.56	EPA 524.2		1/19/17 02:28	CJG	C
Methylene Chloride	ND		ug/L	0.50	0.32	EPA 524.2		1/19/17 02:28	CJG	C
Naphthalene	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:28	CJG	C
Nitrobenzene	ND		ug/L	5.0	1.8	EPA 524.2		1/19/17 02:28	CJG	C
2-Nitropropane	ND		ug/L	2.5	0.80	EPA 524.2		1/19/17 02:28	CJG	C
Pentachloroethane	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:28	CJG	C

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ANALYTICAL RESULTS

Workorder: 2201987 2017-CALVERT CITGO/5977

Lab ID: **2201987004**

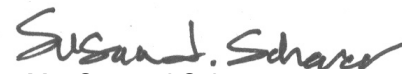
Date Collected: 1/12/2017 10:25

Matrix: Drinking Water

Sample ID: **DW-004C**

Date Received: 1/13/2017 19:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Propionitrile	ND		ug/L	2.5	0.70	EPA 524.2		1/19/17 02:28	CJG	C	
n-Propylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		1/19/17 02:28	CJG	C	
Styrene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:28	CJG	C	
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:28	CJG	C	
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.13	EPA 524.2		1/19/17 02:28	CJG	C	
Tetrachloroethene	ND		ug/L	0.50	0.17	EPA 524.2		1/19/17 02:28	CJG	C	
Tetrahydrofuran	ND		ug/L	2.5	0.81	EPA 524.2		1/19/17 02:28	CJG	C	
Toluene	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 02:28	CJG	C	
Total Xylenes	ND		ug/L	0.50	0.27	EPA 524.2		1/19/17 02:28	CJG	C	
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:28	CJG	C	
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		1/19/17 02:28	CJG	C	
1,1,1-Trichloroethane	ND		ug/L	0.50	0.15	EPA 524.2		1/19/17 02:28	CJG	C	
1,1,2-Trichloroethane	ND		ug/L	0.50	0.20	EPA 524.2		1/19/17 02:28	CJG	C	
Trichloroethene	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:28	CJG	C	
Trichlorofluoromethane	ND		ug/L	0.50	0.18	EPA 524.2		1/19/17 02:28	CJG	C	
1,2,3-Trichloropropane	ND		ug/L	0.50	0.28	EPA 524.2		1/19/17 02:28	CJG	C	
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:28	CJG	C	
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		1/19/17 02:28	CJG	C	
Vinyl Acetate	ND		ug/L	0.50	0.22	EPA 524.2		1/19/17 02:28	CJG	C	
Vinyl Chloride	ND		ug/L	0.50	0.23	EPA 524.2		1/19/17 02:28	CJG	C	
o-Xylene	ND		ug/L	0.50	0.12	EPA 524.2		1/19/17 02:28	CJG	C	
mp-Xylene	ND		ug/L	0.50	0.21	EPA 524.2		1/19/17 02:28	CJG	C	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichlorobenzene-d4 (S)	85.2		%	70 - 130		EPA 524.2			1/18/17 04:08	CJG	B
1,2-Dichlorobenzene-d4 (S)	80.3		%	70 - 130		EPA 524.2			1/19/17 02:28	CJG	C
4-Bromofluorobenzene (S)	94.9		%	70 - 130		EPA 524.2			1/19/17 02:28	CJG	C
4-Bromofluorobenzene (S)	99.3		%	70 - 130		EPA 524.2			1/18/17 04:08	CJG	B



Ms. Susan J Scherer

Project Coordinator

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PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2201987001	8	DW-004K	EPA 524.2	Dichlorodifluoromethane
The QC sample type LCS for method EPA 524.2 was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 68.8 and the control limits were 70 to 130.				
2201987002	9	DW-004J	EPA 524.2	Dichlorodifluoromethane
The QC sample type LCS for method EPA 524.2 was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 68.8 and the control limits were 70 to 130.				
2201987003	9	DW-004I	EPA 524.2	Dichlorodifluoromethane
The QC sample type LCS for method EPA 524.2 was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 68.8 and the control limits were 70 to 130.				
2201987004	9	DW-004C	EPA 524.2	Dichlorodifluoromethane
The QC sample type LCS for method EPA 524.2 was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 68.8 and the control limits were 70 to 130.				

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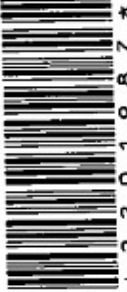
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CHAIN OF CUSTODY
REQUEST FOR ANALYSIS
SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier:
Tracking #:



Co. Name: REPSG Inc
Contact (Report to): James Manuel
Address: 5901 Kingessing Ave.,
Philadelphia, PA 19142
Phone: 215-729-3220
PO#: 13618

Project Name#: Calvert Citgo/5977 ALS Quote #:
TAT: Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
Date Required:
Approved By:

Email? Y N
Fax? Y N
Y No.: x.jmanuel@repsg.com

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	Matrix
1 DW-004K	Post Filtration	1-12-17	1010	G-DW 3
2 DW-004J	Mid Carbon 2	1-12-17	1015	G-DW 3
3 DW-004I	Mid Carbon 1	1-12-17	1020	G-DW 3
4 DW-004C	Pre Filtration	1-12-17	1025	G-DW 3
5				
6				
7				
8				

Project Comments: 1-13-17 2857

SAMPLED BY (Please Print):	Date	Time	Received By / Company Name	Date	Time
DANG PHUNG					
<i>[Signature]</i>	1/13/17	1015	2 Chm Gorman	10/17	1015
<i>[Signature]</i>	1/13/17	1700	4 <i>[Signature]</i>	1-13	1715
<i>[Signature]</i>	1-13	1915	6 <i>[Signature]</i>	1/13	1915
<i>[Signature]</i>			8 <i>[Signature]</i>		
			10		

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Analysis

Correct containers?	Correct sample volume?	Seals intact?	Received on ice?	COCLabels complete/accurate?	Container in good condition?
Y	N	Y	Y	N	N
Y	N	Y	Y	N	N
Y	N	Y	Y	N	N
Y	N	Y	Y	N	N

Notes:

Headspace/Volatiles? Y N
Correct preservation? Y N
Correct sample volume? Y N
Seals intact? Y N
Received on ice? Y N
COCLabels complete/accurate? Y N
Container in good condition? Y N

Container Type: Amber Glass; Clear Glass; Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Matrix: Al; Ar; DW=Drinking Water; GW=Groundwater; Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Container Type: Amber Glass; Clear Glass; Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Matrix: Al; Ar; DW=Drinking Water; GW=Groundwater; Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Container Type: Amber Glass; Clear Glass; Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Matrix: Al; Ar; DW=Drinking Water; GW=Groundwater; Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water
Sample Dates: 03/24/2016-02/16/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C
			Date:	03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016	08/18/2016
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
2-Nitropropane	ug/l	**		<0.8U	<0.8U	<0.8U	<0.8U	<0.8U	<0.8U
Chlorine	ug/l	4000		-	<9U	-	-	-	17J
Methyl iodide	ug/l	**		0.33J	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
Tert-Amyl Methyl Ether	ug/l	**		3.3	3	3.5	3.5	<0.15U	2.6
<i>Volatile Organic Compounds (VOCs)</i>									
1,1-Dichloroethane	ug/l	**		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U
1,2-Dichloroethane	ug/l	5		11.9	<0.15U	12.6	11.9	11.4	10.8
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		13	15.1	21.8	8	<2.2U	37.1
Benzene	ug/l	5		<0.07U	<0.07U	0.11J	<0.07U	<0.07U	<0.07U
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Chlorobenzene	ug/l	100		<0.14U	<0.14U	<0.14U	<0.14U	<0.14U	<0.14U
Cymene	ug/l	**		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U
Diethyl ether	ug/l	**		<0.21U	<0.21U	0.28J	<0.21U	<0.21U	<0.21U
Isopropyl benzene	ug/l	**		<0.14U	<0.14U	<0.14U	<0.14U	<0.14U	<0.14U
Isopropyl Ether	ug/l	**		5.1	<0.21U	<0.21U	<0.21U	<0.21U	5.7
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Methyl chloride	ug/l	**		<0.22U	<0.22U	0.24J	<0.22U	<0.22U	<0.22U

Print Date: 03/01/2017

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** No Applicable Regulatory Standard

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 03/24/2016-02/16/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C
			Date:	03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016	08/18/2016
			Depth (ft):	0	0	0	0	0	0
Methyl ethyl ketone	ug/l	**		6.2	2.8	10.6	6	11	6.8
Methyl tert-butyl ether	ug/l	20		368	486	479	458	369	480
Methylene chloride	ug/l	5		<0.32U	<0.32U	<0.32U	<0.32U	<0.32U	<0.32U
sec-Butylbenzene	ug/l	**		0.11J	0.11J	<0.1U	<0.1U	<0.1U	<0.1U
Tert-Amyl alcohol	ug/l	**		<160U	141E	151E	<80U	<160U	<160U
tert-Butylalcohol	ug/l	**		3560	4190	4480	4780	3400	5430
Tetrahydrofuran	ug/l	**		1.2J	<0.81U	0.88J	<0.81U	<0.81U	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U

Volatile/Semi-Volatile Organic Compounds (V/SVOCs)

Hexachlorobutadiene	ug/l	**		<0.24U	<0.24U	<0.24U	<0.24U	<0.24U	<0.24U
m-Dichlorobenzene	ug/l	**		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U
o-Dichlorobenzene	ug/l	600		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
p-Dichlorobenzene	ug/l	75		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U

Constituent	Unit	*Standard	Location:	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C
			Date:	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017	02/16/2017
			Depth (ft):	0	0	0	0	0	0

Not Otherwise Specified

2-Nitropropane	ug/l	**		<0.8U	<0.8U	<0.8U	<0.8U	<0.8U	<0.8U
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Print Date: 03/01/2017

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 03/24/2016-02/16/2017

Regulatory Standard*:

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Constituent	Unit	*Standard	Location:	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C
			Date:	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017	02/16/2017
			Depth (ft):	0	0	0	0	0	0
Chlorine	ug/l	4000		<9U	-	-	6.7J	-	-
Methyl iodide	ug/l	**		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
Tert-Amyl Methyl Ether	ug/l	**		3.5	4	4	3.8	3.9	4.7
<i>Volatile Organic Compounds (VOCs)</i>									
1,1-Dichloroethane	ug/l	**		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U
1,2-Dichloroethane	ug/l	5		<0.15U	12.7	13.3	12.6	13	14.5
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		26.7	20.7	32.4	12.5	28.4	13
Benzene	ug/l	5		<0.07U	<0.07U	0.1J	<0.07U	<0.07U	0.084J
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Chlorobenzene	ug/l	100		<0.14U	<0.14U	<0.14U	<0.14U	<0.14U	<0.14U
Cymene	ug/l	**		<0.11U	<0.11U	<0.11U	<0.11U	<0.11U	<0.11U
Diethyl ether	ug/l	**		0.25J	<0.21U	0.3J	<0.21U	<0.21U	<0.21U
Isopropyl benzene	ug/l	**		<0.14U	<0.14U	<0.14U	<0.14U	<0.14U	<0.14U
Isopropyl Ether	ug/l	**		<0.21U	<0.21U	7	<0.21U	6.2	7.6
Methyl bromide	ug/l	**		<0.13U	<0.13U	0.18J	<0.13U	<0.13U	<0.13U
Methyl chloride	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
Methyl ethyl ketone	ug/l	**		7	7.9	5.4	6.9	7.9	6
Methyl tert-butyl ether	ug/l	20		424	455	481	433	461	515
Methylene chloride	ug/l	5		<0.32U	<0.32U	<0.32U	<0.32U	<0.32U	<0.32U

Print Date: 03/01/2017

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 03/24/2016-02/16/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C	DW-004C
			Date:	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017	02/16/2017
			Depth (ft):	0	0	0	0	0	0
sec-Butylbenzene	ug/l	**		<0.1U	<0.1U	0.12J	<0.1U	<0.1U	<0.1U
Tert-Amyl alcohol	ug/l	**		223J	<160U	<160U	197J	205	9
tert-Butylalcohol	ug/l	**		4410	4440	4550	4140	5590	5940
Tetrahydrofuran	ug/l	**		<0.81U	<0.81U	1.1J	<0.81U	<0.81U	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U
<i>-----</i>									
<i>Volatile/Semi-Volatile Organic Compounds (V/SVOCs)</i>									
Hexachlorobutadiene	ug/l	**		<0.24U	<0.24U	<0.24U	<0.24U	<0.24U	<0.24U
m-Dichlorobenzene	ug/l	**		<0.11U	<0.11U	0.13J	<0.11U	<0.11U	<0.11U
o-Dichlorobenzene	ug/l	600		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
p-Dichlorobenzene	ug/l	75		<0.11U	<0.11U	0.13J	<0.11U	<0.11U	<0.11U

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 03/24/2016-02/16/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I
			Date:	03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016	08/18/2016
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
Chlorine	ug/l	4000		-	<9U	-	-	-	<9U
Isopropanol	ug/l	**		<3.9U	<3.9U	<3.9U	<3.9U	<3.9U	<3.9U
Methyl iodide	ug/l	**		0.33J	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
Tert-Amyl Methyl Ether	ug/l	**		<0.15U	<0.15U	<0.15U	<0.15U	0.27J	<0.15U
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		12.3	<2.2U	20.9	7.4	16.4	11.2
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Methyl ethyl ketone	ug/l	**		5.5	<1.3U	11.8	5.7	7.5	7.7
Methyl tert-butyl ether	ug/l	20		302	440	511	477	374	608
Tert-Amyl alcohol	ug/l	**		<160U	<80U	189E	156J	<160U	187J
tert-Butylalcohol	ug/l	**		3830	4480	4960	4660	1860	5570
Tetrahydrofuran	ug/l	**		1.5J	<0.81U	1.4J	<0.81U	<0.81U	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U

Print Date: 03/01/2017

Page 1

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Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 03/24/2016-02/16/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I	DW-004I
			Date:	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017	02/16/2017
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
Chlorine	ug/l	4000		<9U	-	-	6.7J	-	-
Isopropanol	ug/l	**		<3.9U	<3.9U	<3.9U	<3.9U	<3.9U	<3.9U
Methyl iodide	ug/l	**		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
Tert-Amyl Methyl Ether	ug/l	**		<0.15U	<0.15U	<0.15U	<0.15U	<0.15U	<0.15U
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		8.2	12.8	40.1	16.3	23	16.3
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Methyl ethyl ketone	ug/l	**		5.1	7.2	5.2	9.2	7.6	6.5
Methyl tert-butyl ether	ug/l	20		0.61	0.67	1.6	2.1	8.8	21.5
Tert-Amyl alcohol	ug/l	**		36.6	52.6	68	75.6	138	<1.6U
tert-Butylalcohol	ug/l	**		4620	4300	5640	4130	5550	6500
Tetrahydrofuran	ug/l	**		2.2J	2.5J	2.8	1.6J	<0.81U	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U

Print Date: 03/01/2017

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Analytical Chemistry Report

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Project No.: 005977

Matrix: Drinking Water

Sample Dates: 03/24/2016-02/16/2017

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Constituent	Unit	*Standard	Location:	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J
			Date:	03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016	08/18/2016
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
Isopropanol	ug/l	**		<3.9U	<3.9U	4.2J	<3.9U	<3.9U	<3.9U
Methyl iodide	ug/l	**		0.28J	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		8.5	4.4J	14	7.1	32.8	42.7
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Methyl chloride	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
Methyl ethyl ketone	ug/l	**		5.2	<1.3U	11	6.8	8.4	7.3
Methyl tert-butyl ether	ug/l	20		2.2	12.9	63.5	108	182	300
n-Butylbenzene	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Tert-Amyl alcohol	ug/l	**		42.9	101	160E	191J	198J	<160U
tert-Butylalcohol	ug/l	**		3680	4470	5300	4790	3480	5050
Tetrahydrofuran	ug/l	**		2.2J	2.7	2.1J	<0.81U	1.7J	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U
trans-1,2-Di-chloroethylene	ug/l	100		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 03/24/2016-02/16/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J	DW-004J
			Date:	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017	02/16/2017
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
Isopropanol	ug/l	**		<3.9U	<3.9U	<3.9U	<3.9U	<3.9U	<3.9U
Methyl iodide	ug/l	**		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
Acetone	ug/l	**		12.7	21.7	21.8	12.9	26.5	28.3
Carbon disulfide	ug/l	**		<0.21U	<0.21U	<0.21U	<0.21U	<0.21U	<0.21U
Methyl bromide	ug/l	**		<0.13U	0.19J	<0.13U	<0.13U	<0.13U	<0.13U
Methyl chloride	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	0.52
Methyl ethyl ketone	ug/l	**		5.6	7.4	6.1	8.2	<1.3U	6.5
Methyl tert-butyl ether	ug/l	20		375	387	406	332	278	254
n-Butylbenzene	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Tert-Amyl alcohol	ug/l	**		280J	210	<160U	<160U	127	<1.6U
tert-Butylalcohol	ug/l	**		4370	3930	4880	3860	5330	6630
Tetrahydrofuran	ug/l	**		1.3J	1.4J	2.1J	1.9J	<0.81U	<0.81U
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U
trans-1,2-Di-chloroethylene	ug/l	100		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U

Print Date: 03/01/2017

Page 2

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 03/24/2016-02/16/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Print Date: 03/01/2017

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

**Matrix: Drinking Water
Sample Dates: 03/24/2016-02/16/2017**

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K
			Date:	03/24/2016	04/14/2016	05/20/2016	06/17/2016	07/20/2016	08/18/2016
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
Isopropanol	ug/l	**		<3.9U	<3.9U	5.7J	<3.9U	<3.9U	<3.9U
Methyl iodide	ug/l	**		0.29J	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
2-Hexanone	ug/l	**		<0.82U	<0.82U	<0.82U	<0.82U	<0.82U	<0.82U
Acetone	ug/l	**		7.7	6.4	12.6	10.2	19.1	14.7
Methyl bromide	ug/l	**		<0.13U	<0.13U	0.13J	<0.13U	<0.13U	<0.13U
Methyl ethyl ketone	ug/l	**		5.8	<1.3U	11.9	9.6	9.8	7
Methyl tert-butyl ether	ug/l	20		0.14J	0.2J	0.81	0.35J	0.74	0.99
Methylene chloride	ug/l	5		<0.32U	<0.32U	<0.32U	<0.32U	<0.32U	<0.32U
Tert-Amyl alcohol	ug/l	**		12.6	17.2	20.3	25.4	9.7	26.6
tert-Butylalcohol	ug/l	**		4180	5330	5180	5400	3780	5420
Tetrachloroethylene	ug/l	5		<0.17U	<0.17U	<0.17U	<0.17U	<0.17U	<0.17U
Tetrahydrofuran	ug/l	**		6.1	4.5	3.1	3.7	<0.81U	2.5J
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U
<i>Volatile/Semi-Volatile Organic Compounds (V/SVOCs)</i>									
Naphthalene	ug/l	**		<0.15U	<0.15U	<0.15U	<0.15U	<0.15U	<0.15U

Print Date: 03/01/2017

Page 1

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 03/24/2016-02/16/2017

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Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K
			Date:	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017	02/16/2017
			Depth (ft):	0	0	0	0	0	0
<i>Not Otherwise Specified</i>									
Isopropanol	ug/l	**		<3.9U	<3.9U	<3.9U	<3.9U	<3.9U	<3.9U
Methyl iodide	ug/l	**		<0.19U	<0.19U	<0.19U	<0.19U	<0.19U	<0.19U
n-Hexane	ug/l	**		<0.22U	<0.22U	<0.22U	<0.22U	<0.22U	<0.22U
<i>Volatile Organic Compounds (VOCs)</i>									
1,4-Dioxane	ug/l	**		<4U	<4U	<4U	<4U	<4U	<4U
2-Hexanone	ug/l	**		<0.82U	<0.82U	<0.82U	<0.82U	<0.82U	<0.82U
Acetone	ug/l	**		7.6	5.9	13	9	13.6	7.7
Methyl bromide	ug/l	**		<0.13U	<0.13U	<0.13U	<0.13U	<0.13U	<0.13U
Methyl ethyl ketone	ug/l	**		5	<1.3U	4.7	6.6	<1.3U	5.8
Methyl tert-butyl ether	ug/l	20		<0.09U	0.65	0.5J	0.12J	1.2	10
Methylene chloride	ug/l	5		<0.32U	<0.32U	<0.32U	<0.32U	<0.32U	<0.32U
Tert-Amyl alcohol	ug/l	**		<1.6U	6.6	7.7	4.6J	<1.6U	<1.6U
tert-Butylalcohol	ug/l	**		10.9	4320	5610	3820	4770	6990
Tetrachloroethylene	ug/l	5		<0.17U	<0.17U	<0.17U	<0.17U	<0.17U	<0.17U
Tetrahydrofuran	ug/l	**		<0.81U	<0.81U	2.1J	1.6J	<0.81U	2.3J
Toluene	ug/l	1000		<0.12U	<0.12U	<0.12U	<0.12U	<0.12U	<0.12U

Volatile/Semi-Volatile Organic Compounds (V/SVOCs)

Print Date: 03/01/2017

Page 2

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Analytical Chemistry Report

Calvert Citgo 2815 Northeast Rd North East, Maryland

Project No.: 005977

Matrix: Drinking Water

Sample Dates: 03/24/2016-02/16/2017

Regulatory Standard*:

Maryland Department of the Environment (MDE) Modified Drinking Water Standards. Based on EPA National Primary Drinking Water Standards: Office of Water (June 2003) and the most conservative of EPA Drinking Water Advisory levels: Office of Water (April 2012).

Constituent	Unit	*Standard	Location:	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K	DW-004K
			Date:	09/16/2016	10/21/2016	11/10/2016	12/01/2016	01/12/2017	02/16/2017
			Depth (ft):	0	0	0	0	0	0
Naphthalene	ug/l	**		<0.15U	<0.15U	<0.15U	<0.15U	<0.15U	1.1J

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February 23, 2017

Ms. Natalie Griffith
REPSG
6901 Kingsessing Ave
Suite 201
Philadelphia, PA 19142

Certificate of Analysis

Project Name:	2017-CALVERT CITGO/5977	Workorder:	2209471
Purchase Order:	13802	Workorder ID:	2017-CALVERT CITGO/5977

Dear Ms. Griffith:

Enclosed are the analytical results for samples received by the laboratory on Friday, February 17, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Susan J Scherer (Project Coordinator) at (717) 944-5541.

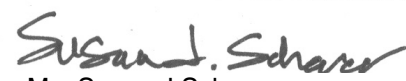
Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. S Shourds , Mr. James Manuel

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Ms. Susan J Scherer
Project Coordinator

ALS Environmental Laboratory Locations Across North America

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2209471001	DW-004K	Drinking Water	2/16/2017 10:15	2/17/2017 21:00	Collected by Client
2209471002	DW-004J	Drinking Water	2/16/2017 10:20	2/17/2017 21:00	Collected by Client
2209471003	DW-004I	Drinking Water	2/16/2017 10:25	2/17/2017 21:00	Collected by Client
2209471004	DW-004C	Drinking Water	2/16/2017 10:30	2/17/2017 21:00	Collected by Client

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 2209471 2017-CALVERT CITGO/5977

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471001**

Date Collected: 2/16/2017 10:15

Matrix: Drinking Water

Sample ID: **DW-004K**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	7.7		ug/L	5.0	2.2	EPA 524.2		2/21/17 18:29	DD	A
Acrylonitrile	ND		ug/L	2.5	0.88	EPA 524.2		2/21/17 18:29	DD	A
tert-Amyl methyl ether	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 18:29	DD	A
tert-Amyl Alcohol	ND		ug/L	5.0	1.6	EPA 524.2		2/21/17 18:29	DD	A
tert-Amyl Ethylether	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 18:29	DD	A
Benzene	ND		ug/L	0.50	0.070	EPA 524.2		2/21/17 18:29	DD	A
Bromobenzene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:29	DD	A
Bromochloromethane	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 18:29	DD	A
Bromodichloromethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:29	DD	A
Bromoform	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:29	DD	A
Bromomethane	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 18:29	DD	A
2-Butanone	5.8		ug/L	2.5	1.3	EPA 524.2		2/21/17 18:29	DD	A
tert-Butyl Alcohol	6990		ug/L	500	140	EPA 524.2		2/21/17 16:27	DD	A
n-Butylbenzene	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 18:29	DD	A
tert-Butylbenzene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 18:29	DD	A
sec-Butylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 18:29	DD	A
Carbon Disulfide	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:29	DD	A
Carbon Tetrachloride	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 18:29	DD	A
Chloroacetonitrile	ND		ug/L	2.5	0.88	EPA 524.2		2/21/17 18:29	DD	A
Chlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 18:29	DD	A
1-Chlorobutane	ND		ug/L	1.0	0.28	EPA 524.2		2/21/17 18:29	DD	A
Chlorodibromomethane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 18:29	DD	A
Chloroethane	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 18:29	DD	A
Chloroform	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:29	DD	A
Chloromethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:29	DD	A
3-Chloro-1-propene	ND		ug/L	0.50	0.17	EPA 524.2		2/21/17 18:29	DD	A
o-Chlorotoluene	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:29	DD	A
p-Chlorotoluene	ND		ug/L	0.50	0.16	EPA 524.2		2/21/17 18:29	DD	A
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:29	DD	A
1,2-Dibromoethane	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 18:29	DD	A
Dibromomethane	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 18:29	DD	A
trans-1,4-Dichloro-2-butene	ND		ug/L	1.0	0.27	EPA 524.2		2/21/17 18:29	DD	A
1,1-Dichloro-2-Propanone	ND		ug/L	12.5	2.2	EPA 524.2		2/21/17 18:29	DD	A
1,2-Dichlorobenzene	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 18:29	DD	A
1,3-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:29	DD	A
1,4-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:29	DD	A

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ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471001**

Date Collected: 2/16/2017 10:15

Matrix: Drinking Water

Sample ID: **DW-004K**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Dichlorodifluoromethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:29	DD	A
1,1-Dichloroethane	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:29	DD	A
1,2-Dichloroethane	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 18:29	DD	A
1,1-Dichloroethene	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:29	DD	A
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:29	DD	A
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:29	DD	A
Dichlorofluoromethane	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:29	DD	A
1,3-Dichloropropane	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 18:29	DD	A
2,2-Dichloropropane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 18:29	DD	A
1,2-Dichloropropane	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:29	DD	A
1,1-Dichloropropene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 18:29	DD	A
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 18:29	DD	A
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 18:29	DD	A
1,3-Dichloropropene, Total	ND		ug/L	1.0	0.23	EPA 524.2		2/21/17 18:29	DD	A
Diisopropyl ether	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:29	DD	A
1,4-Dioxane	ND		ug/L	4.0	4.0	EPA 524.2		2/21/17 18:29	DD	A
Ethyl Ether	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:29	DD	A
Ethyl Methacrylate	ND		ug/L	0.50	0.16	EPA 524.2		2/21/17 18:29	DD	A
Ethyl tert-butyl ether	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:29	DD	A
Ethylbenzene	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 18:29	DD	A
Hexachlorobutadiene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 18:29	DD	A
Hexachloroethane	ND		ug/L	1.0	0.32	EPA 524.2		2/21/17 18:29	DD	A
Hexane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:29	DD	A
2-Hexanone	ND		ug/L	2.5	0.82	EPA 524.2		2/21/17 18:29	DD	A
Iodomethane	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:29	DD	A
Isopropyl Alcohol	ND		ug/L	25.0	3.9	EPA 524.2		2/21/17 18:29	DD	A
Isopropylbenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 18:29	DD	A
p-Isopropyltoluene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:29	DD	A
Methacrylonitrile	ND		ug/L	1.0	0.23	EPA 524.2		2/21/17 18:29	DD	A
Methyl methacrylate	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 18:29	DD	A
Methyl acrylate	ND		ug/L	1.0	0.21	EPA 524.2		2/21/17 18:29	DD	A
Methyl t-Butyl Ether	10		ug/L	0.50	0.090	EPA 524.2		2/21/17 18:29	DD	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/L	2.5	0.56	EPA 524.2		2/21/17 18:29	DD	A
Methylene Chloride	ND		ug/L	0.50	0.32	EPA 524.2		2/21/17 18:29	DD	A
Naphthalene	1.1J	J	ug/L	2.0	0.15	EPA 524.2		2/21/17 18:29	DD	A
Nitrobenzene	ND		ug/L	5.0	1.8	EPA 524.2		2/21/17 18:29	DD	A
2-Nitropropane	ND		ug/L	2.5	0.80	EPA 524.2		2/21/17 18:29	DD	A
Pentachloroethane	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:29	DD	A

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ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471001**

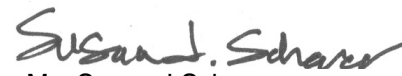
Date Collected: 2/16/2017 10:15

Matrix: Drinking Water

Sample ID: **DW-004K**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Propionitrile	ND		ug/L	2.5	0.70	EPA 524.2		2/21/17 18:29	DD	A	
n-Propylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 18:29	DD	A	
Styrene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:29	DD	A	
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:29	DD	A	
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 18:29	DD	A	
Tetrachloroethene	ND		ug/L	0.50	0.17	EPA 524.2		2/21/17 18:29	DD	A	
Tetrahydrofuran	2.3J	J	ug/L	2.5	0.81	EPA 524.2		2/21/17 18:29	DD	A	
Toluene	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 18:29	DD	A	
Total Xylenes	ND		ug/L	0.50	0.27	EPA 524.2		2/21/17 18:29	DD	A	
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:29	DD	A	
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 18:29	DD	A	
1,1,1-Trichloroethane	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 18:29	DD	A	
1,1,2-Trichloroethane	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 18:29	DD	A	
Trichloroethene	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:29	DD	A	
Trichlorofluoromethane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 18:29	DD	A	
1,2,3-Trichloropropane	ND		ug/L	0.50	0.28	EPA 524.2		2/21/17 18:29	DD	A	
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:29	DD	A	
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:29	DD	A	
Vinyl Acetate	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:29	DD	A	
Vinyl Chloride	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:29	DD	A	
o-Xylene	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 18:29	DD	A	
mp-Xylene	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:29	DD	A	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichlorobenzene-d4 (S)	98.9		%	70 - 130		EPA 524.2			2/21/17 16:27	DD	A
1,2-Dichlorobenzene-d4 (S)	122		%	70 - 130		EPA 524.2			2/21/17 18:29	DD	A
4-Bromofluorobenzene (S)	111		%	70 - 130		EPA 524.2			2/21/17 16:27	DD	A
4-Bromofluorobenzene (S)	116		%	70 - 130		EPA 524.2			2/21/17 18:29	DD	A



Ms. Susan J Scherer

Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471002**

Date Collected: 2/16/2017 10:20

Matrix: Drinking Water

Sample ID: **DW-004J**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	28.3		ug/L	5.0	2.2	EPA 524.2		2/21/17 18:53	DD	A
Acrylonitrile	ND		ug/L	2.5	0.88	EPA 524.2		2/21/17 18:53	DD	A
tert-Amyl methyl ether	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 18:53	DD	A
tert-Amyl Alcohol	ND		ug/L	5.0	1.6	EPA 524.2		2/21/17 18:53	DD	A
tert-Amyl Ethylether	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 18:53	DD	A
Benzene	ND		ug/L	0.50	0.070	EPA 524.2		2/21/17 18:53	DD	A
Bromobenzene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:53	DD	A
Bromochloromethane	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 18:53	DD	A
Bromodichloromethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:53	DD	A
Bromoform	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:53	DD	A
Bromomethane	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 18:53	DD	A
2-Butanone	6.5		ug/L	2.5	1.3	EPA 524.2		2/21/17 18:53	DD	A
tert-Butyl Alcohol	6630		ug/L	500	140	EPA 524.2		2/21/17 16:52	DD	A
n-Butylbenzene	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 18:53	DD	A
tert-Butylbenzene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 18:53	DD	A
sec-Butylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 18:53	DD	A
Carbon Disulfide	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:53	DD	A
Carbon Tetrachloride	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 18:53	DD	A
Chloroacetonitrile	ND		ug/L	2.5	0.88	EPA 524.2		2/21/17 18:53	DD	A
Chlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 18:53	DD	A
1-Chlorobutane	ND		ug/L	1.0	0.28	EPA 524.2		2/21/17 18:53	DD	A
Chlorodibromomethane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 18:53	DD	A
Chloroethane	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 18:53	DD	A
Chloroform	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:53	DD	A
Chloromethane	0.52		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:53	DD	A
3-Chloro-1-propene	ND		ug/L	0.50	0.17	EPA 524.2		2/21/17 18:53	DD	A
o-Chlorotoluene	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:53	DD	A
p-Chlorotoluene	ND		ug/L	0.50	0.16	EPA 524.2		2/21/17 18:53	DD	A
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:53	DD	A
1,2-Dibromoethane	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 18:53	DD	A
Dibromomethane	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 18:53	DD	A
trans-1,4-Dichloro-2-butene	ND		ug/L	1.0	0.27	EPA 524.2		2/21/17 18:53	DD	A
1,1-Dichloro-2-Propanone	ND		ug/L	12.5	2.2	EPA 524.2		2/21/17 18:53	DD	A
1,2-Dichlorobenzene	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 18:53	DD	A
1,3-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:53	DD	A
1,4-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:53	DD	A

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ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471002**

Date Collected: 2/16/2017 10:20

Matrix: Drinking Water

Sample ID: **DW-004J**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Dichlorodifluoromethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:53	DD	A
1,1-Dichloroethane	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:53	DD	A
1,2-Dichloroethane	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 18:53	DD	A
1,1-Dichloroethene	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:53	DD	A
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:53	DD	A
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:53	DD	A
Dichlorofluoromethane	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:53	DD	A
1,3-Dichloropropane	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 18:53	DD	A
2,2-Dichloropropane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 18:53	DD	A
1,2-Dichloropropane	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:53	DD	A
1,1-Dichloropropene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 18:53	DD	A
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 18:53	DD	A
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 18:53	DD	A
1,3-Dichloropropene, Total	ND		ug/L	1.0	0.23	EPA 524.2		2/21/17 18:53	DD	A
Diisopropyl ether	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:53	DD	A
1,4-Dioxane	ND		ug/L	4.0	4.0	EPA 524.2		2/21/17 18:53	DD	A
Ethyl Ether	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:53	DD	A
Ethyl Methacrylate	ND		ug/L	0.50	0.16	EPA 524.2		2/21/17 18:53	DD	A
Ethyl tert-butyl ether	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:53	DD	A
Ethylbenzene	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 18:53	DD	A
Hexachlorobutadiene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 18:53	DD	A
Hexachloroethane	ND		ug/L	1.0	0.32	EPA 524.2		2/21/17 18:53	DD	A
Hexane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:53	DD	A
2-Hexanone	ND		ug/L	2.5	0.82	EPA 524.2		2/21/17 18:53	DD	A
Iodomethane	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 18:53	DD	A
Isopropyl Alcohol	ND		ug/L	25.0	3.9	EPA 524.2		2/21/17 18:53	DD	A
Isopropylbenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 18:53	DD	A
p-Isopropyltoluene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:53	DD	A
Methacrylonitrile	ND		ug/L	1.0	0.23	EPA 524.2		2/21/17 18:53	DD	A
Methyl methacrylate	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 18:53	DD	A
Methyl acrylate	ND		ug/L	1.0	0.21	EPA 524.2		2/21/17 18:53	DD	A
Methyl t-Butyl Ether	254		ug/L	50.0	9.0	EPA 524.2		2/21/17 16:52	DD	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/L	2.5	0.56	EPA 524.2		2/21/17 18:53	DD	A
Methylene Chloride	ND		ug/L	0.50	0.32	EPA 524.2		2/21/17 18:53	DD	A
Naphthalene	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 18:53	DD	A
Nitrobenzene	ND		ug/L	5.0	1.8	EPA 524.2		2/21/17 18:53	DD	A
2-Nitropropane	ND		ug/L	2.5	0.80	EPA 524.2		2/21/17 18:53	DD	A
Pentachloroethane	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:53	DD	A

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Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471002**

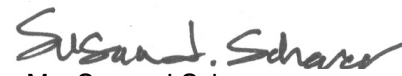
Date Collected: 2/16/2017 10:20

Matrix: Drinking Water

Sample ID: **DW-004J**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Propionitrile	ND		ug/L	2.5	0.70	EPA 524.2		2/21/17 18:53	DD	A	
n-Propylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 18:53	DD	A	
Styrene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:53	DD	A	
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:53	DD	A	
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 18:53	DD	A	
Tetrachloroethene	ND		ug/L	0.50	0.17	EPA 524.2		2/21/17 18:53	DD	A	
Tetrahydrofuran	ND		ug/L	2.5	0.81	EPA 524.2		2/21/17 18:53	DD	A	
Toluene	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 18:53	DD	A	
Total Xylenes	ND		ug/L	0.50	0.27	EPA 524.2		2/21/17 18:53	DD	A	
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:53	DD	A	
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 18:53	DD	A	
1,1,1-Trichloroethane	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 18:53	DD	A	
1,1,2-Trichloroethane	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 18:53	DD	A	
Trichloroethene	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:53	DD	A	
Trichlorofluoromethane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 18:53	DD	A	
1,2,3-Trichloropropane	ND		ug/L	0.50	0.28	EPA 524.2		2/21/17 18:53	DD	A	
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:53	DD	A	
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 18:53	DD	A	
Vinyl Acetate	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 18:53	DD	A	
Vinyl Chloride	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 18:53	DD	A	
o-Xylene	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 18:53	DD	A	
mp-Xylene	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 18:53	DD	A	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichlorobenzene-d4 (S)	101		%	70 - 130		EPA 524.2			2/21/17 18:53	DD	A
1,2-Dichlorobenzene-d4 (S)	94.9		%	70 - 130		EPA 524.2			2/21/17 16:52	DD	A
4-Bromofluorobenzene (S)	95.2		%	70 - 130		EPA 524.2			2/21/17 16:52	DD	A
4-Bromofluorobenzene (S)	104		%	70 - 130		EPA 524.2			2/21/17 18:53	DD	A



Ms. Susan J Scherer
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471003**

Date Collected: 2/16/2017 10:25

Matrix: Drinking Water

Sample ID: **DW-004I**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	16.3		ug/L	5.0	2.2	EPA 524.2		2/21/17 19:17	DD	A
Acrylonitrile	ND		ug/L	2.5	0.88	EPA 524.2		2/21/17 19:17	DD	A
tert-Amyl methyl ether	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 19:17	DD	A
tert-Amyl Alcohol	ND		ug/L	5.0	1.6	EPA 524.2		2/21/17 19:17	DD	A
tert-Amyl Ethylether	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 19:17	DD	A
Benzene	ND		ug/L	0.50	0.070	EPA 524.2		2/21/17 19:17	DD	A
Bromobenzene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:17	DD	A
Bromochloromethane	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 19:17	DD	A
Bromodichloromethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:17	DD	A
Bromoform	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:17	DD	A
Bromomethane	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 19:17	DD	A
2-Butanone	6.5		ug/L	2.5	1.3	EPA 524.2		2/21/17 19:17	DD	A
tert-Butyl Alcohol	6500		ug/L	500	140	EPA 524.2		2/21/17 17:16	DD	A
n-Butylbenzene	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 19:17	DD	A
tert-Butylbenzene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 19:17	DD	A
sec-Butylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 19:17	DD	A
Carbon Disulfide	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:17	DD	A
Carbon Tetrachloride	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 19:17	DD	A
Chloroacetonitrile	ND		ug/L	2.5	0.88	EPA 524.2		2/21/17 19:17	DD	A
Chlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 19:17	DD	A
1-Chlorobutane	ND		ug/L	1.0	0.28	EPA 524.2		2/21/17 19:17	DD	A
Chlorodibromomethane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 19:17	DD	A
Chloroethane	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 19:17	DD	A
Chloroform	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:17	DD	A
Chloromethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:17	DD	A
3-Chloro-1-propene	ND		ug/L	0.50	0.17	EPA 524.2		2/21/17 19:17	DD	A
o-Chlorotoluene	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:17	DD	A
p-Chlorotoluene	ND		ug/L	0.50	0.16	EPA 524.2		2/21/17 19:17	DD	A
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:17	DD	A
1,2-Dibromoethane	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 19:17	DD	A
Dibromomethane	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 19:17	DD	A
trans-1,4-Dichloro-2-butene	ND		ug/L	1.0	0.27	EPA 524.2		2/21/17 19:17	DD	A
1,1-Dichloro-2-Propanone	ND		ug/L	12.5	2.2	EPA 524.2		2/21/17 19:17	DD	A
1,2-Dichlorobenzene	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 19:17	DD	A
1,3-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:17	DD	A
1,4-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:17	DD	A

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ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471003**

Date Collected: 2/16/2017 10:25

Matrix: Drinking Water

Sample ID: **DW-004I**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Dichlorodifluoromethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:17	DD	A
1,1-Dichloroethane	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:17	DD	A
1,2-Dichloroethane	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 19:17	DD	A
1,1-Dichloroethene	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:17	DD	A
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:17	DD	A
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:17	DD	A
Dichlorofluoromethane	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:17	DD	A
1,3-Dichloropropane	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 19:17	DD	A
2,2-Dichloropropane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 19:17	DD	A
1,2-Dichloropropane	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:17	DD	A
1,1-Dichloropropene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 19:17	DD	A
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 19:17	DD	A
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 19:17	DD	A
1,3-Dichloropropene, Total	ND		ug/L	1.0	0.23	EPA 524.2		2/21/17 19:17	DD	A
Diisopropyl ether	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:17	DD	A
1,4-Dioxane	ND		ug/L	4.0	4.0	EPA 524.2		2/21/17 19:17	DD	A
Ethyl Ether	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:17	DD	A
Ethyl Methacrylate	ND		ug/L	0.50	0.16	EPA 524.2		2/21/17 19:17	DD	A
Ethyl tert-butyl ether	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:17	DD	A
Ethylbenzene	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 19:17	DD	A
Hexachlorobutadiene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 19:17	DD	A
Hexachloroethane	ND		ug/L	1.0	0.32	EPA 524.2		2/21/17 19:17	DD	A
Hexane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:17	DD	A
2-Hexanone	ND		ug/L	2.5	0.82	EPA 524.2		2/21/17 19:17	DD	A
Iodomethane	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:17	DD	A
Isopropyl Alcohol	ND		ug/L	25.0	3.9	EPA 524.2		2/21/17 19:17	DD	A
Isopropylbenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 19:17	DD	A
p-Isopropyltoluene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:17	DD	A
Methacrylonitrile	ND		ug/L	1.0	0.23	EPA 524.2		2/21/17 19:17	DD	A
Methyl methacrylate	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 19:17	DD	A
Methyl acrylate	ND		ug/L	1.0	0.21	EPA 524.2		2/21/17 19:17	DD	A
Methyl t-Butyl Ether	21.5		ug/L	5.0	0.90	EPA 524.2		2/22/17 15:10	DD	B
4-Methyl-2-Pentanone(MIBK)	ND		ug/L	2.5	0.56	EPA 524.2		2/21/17 19:17	DD	A
Methylene Chloride	ND		ug/L	0.50	0.32	EPA 524.2		2/21/17 19:17	DD	A
Naphthalene	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 19:17	DD	A
Nitrobenzene	ND		ug/L	5.0	1.8	EPA 524.2		2/21/17 19:17	DD	A
2-Nitropropane	ND		ug/L	2.5	0.80	EPA 524.2		2/21/17 19:17	DD	A
Pentachloroethane	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:17	DD	A

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ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471003**

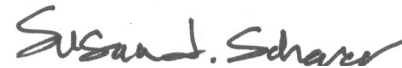
Date Collected: 2/16/2017 10:25

Matrix: Drinking Water

Sample ID: **DW-004I**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Propionitrile	ND		ug/L	2.5	0.70	EPA 524.2		2/21/17 19:17	DD	A	
n-Propylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 19:17	DD	A	
Styrene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:17	DD	A	
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:17	DD	A	
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 19:17	DD	A	
Tetrachloroethene	ND		ug/L	0.50	0.17	EPA 524.2		2/21/17 19:17	DD	A	
Tetrahydrofuran	ND		ug/L	2.5	0.81	EPA 524.2		2/21/17 19:17	DD	A	
Toluene	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 19:17	DD	A	
Total Xylenes	ND		ug/L	0.50	0.27	EPA 524.2		2/21/17 19:17	DD	A	
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:17	DD	A	
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 19:17	DD	A	
1,1,1-Trichloroethane	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 19:17	DD	A	
1,1,2-Trichloroethane	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 19:17	DD	A	
Trichloroethene	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:17	DD	A	
Trichlorofluoromethane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 19:17	DD	A	
1,2,3-Trichloropropane	ND		ug/L	0.50	0.28	EPA 524.2		2/21/17 19:17	DD	A	
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:17	DD	A	
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:17	DD	A	
Vinyl Acetate	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:17	DD	A	
Vinyl Chloride	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:17	DD	A	
o-Xylene	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 19:17	DD	A	
mp-Xylene	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:17	DD	A	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichlorobenzene-d4 (S)	91.4		%	70 - 130		EPA 524.2			2/21/17 17:16	DD	A
1,2-Dichlorobenzene-d4 (S)	79.7		%	70 - 130		EPA 524.2			2/22/17 15:10	DD	B
1,2-Dichlorobenzene-d4 (S)	107		%	70 - 130		EPA 524.2			2/21/17 19:17	DD	A
4-Bromofluorobenzene (S)	84.6		%	70 - 130		EPA 524.2			2/22/17 15:10	DD	B
4-Bromofluorobenzene (S)	90.2		%	70 - 130		EPA 524.2			2/21/17 17:16	DD	A
4-Bromofluorobenzene (S)	110		%	70 - 130		EPA 524.2			2/21/17 19:17	DD	A



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ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471004**

Date Collected: 2/16/2017 10:30

Matrix: Drinking Water

Sample ID: **DW-004C**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	13.0		ug/L	5.0	2.2	EPA 524.2		2/21/17 19:42	DD	A
Acrylonitrile	ND		ug/L	2.5	0.88	EPA 524.2		2/21/17 19:42	DD	A
tert-Amyl methyl ether	4.7		ug/L	0.50	0.15	EPA 524.2		2/21/17 19:42	DD	A
tert-Amyl Alcohol	9.0		ug/L	5.0	1.6	EPA 524.2		2/21/17 19:42	DD	A
tert-Amyl Ethylether	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 19:42	DD	A
Benzene	0.084J	J	ug/L	0.50	0.070	EPA 524.2		2/21/17 19:42	DD	A
Bromobenzene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:42	DD	A
Bromochloromethane	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 19:42	DD	A
Bromodichloromethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:42	DD	A
Bromoform	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:42	DD	A
Bromomethane	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 19:42	DD	A
2-Butanone	6.0		ug/L	2.5	1.3	EPA 524.2		2/21/17 19:42	DD	A
tert-Butyl Alcohol	5940		ug/L	500	140	EPA 524.2		2/21/17 17:40	DD	A
n-Butylbenzene	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 19:42	DD	A
tert-Butylbenzene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 19:42	DD	A
sec-Butylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 19:42	DD	A
Carbon Disulfide	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:42	DD	A
Carbon Tetrachloride	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 19:42	DD	A
Chloroacetonitrile	ND		ug/L	2.5	0.88	EPA 524.2		2/21/17 19:42	DD	A
Chlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 19:42	DD	A
1-Chlorobutane	ND		ug/L	1.0	0.28	EPA 524.2		2/21/17 19:42	DD	A
Chlorodibromomethane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 19:42	DD	A
Chloroethane	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 19:42	DD	A
Chloroform	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:42	DD	A
Chloromethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:42	DD	A
3-Chloro-1-propene	ND		ug/L	0.50	0.17	EPA 524.2		2/21/17 19:42	DD	A
o-Chlorotoluene	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:42	DD	A
p-Chlorotoluene	ND		ug/L	0.50	0.16	EPA 524.2		2/21/17 19:42	DD	A
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:42	DD	A
1,2-Dibromoethane	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 19:42	DD	A
Dibromomethane	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 19:42	DD	A
trans-1,4-Dichloro-2-butene	ND		ug/L	1.0	0.27	EPA 524.2		2/21/17 19:42	DD	A
1,1-Dichloro-2-Propanone	ND		ug/L	12.5	2.2	EPA 524.2		2/21/17 19:42	DD	A
1,2-Dichlorobenzene	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 19:42	DD	A
1,3-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:42	DD	A
1,4-Dichlorobenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:42	DD	A

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ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471004**

Date Collected: 2/16/2017 10:30

Matrix: Drinking Water

Sample ID: **DW-004C**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Dichlorodifluoromethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:42	DD	A
1,1-Dichloroethane	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:42	DD	A
1,2-Dichloroethane	14.5		ug/L	0.50	0.10	EPA 524.2		2/21/17 19:42	DD	A
1,1-Dichloroethene	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:42	DD	A
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:42	DD	A
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:42	DD	A
Dichlorofluoromethane	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:42	DD	A
1,3-Dichloropropane	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 19:42	DD	A
2,2-Dichloropropane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 19:42	DD	A
1,2-Dichloropropane	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:42	DD	A
1,1-Dichloropropene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 19:42	DD	A
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 19:42	DD	A
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 19:42	DD	A
1,3-Dichloropropene, Total	ND		ug/L	1.0	0.23	EPA 524.2		2/21/17 19:42	DD	A
Diisopropyl ether	7.6		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:42	DD	A
1,4-Dioxane	ND		ug/L	4.0	4.0	EPA 524.2		2/21/17 19:42	DD	A
Ethyl Ether	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:42	DD	A
Ethyl Methacrylate	ND		ug/L	0.50	0.16	EPA 524.2		2/21/17 19:42	DD	A
Ethyl tert-butyl ether	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:42	DD	A
Ethylbenzene	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 19:42	DD	A
Hexachlorobutadiene	ND		ug/L	0.50	0.24	EPA 524.2		2/21/17 19:42	DD	A
Hexachloroethane	ND		ug/L	1.0	0.32	EPA 524.2		2/21/17 19:42	DD	A
Hexane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:42	DD	A
2-Hexanone	ND		ug/L	2.5	0.82	EPA 524.2		2/21/17 19:42	DD	A
Iodomethane	ND		ug/L	0.50	0.19	EPA 524.2		2/21/17 19:42	DD	A
Isopropyl Alcohol	ND		ug/L	25.0	3.9	EPA 524.2		2/21/17 19:42	DD	A
Isopropylbenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 19:42	DD	A
p-Isopropyltoluene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:42	DD	A
Methacrylonitrile	ND		ug/L	1.0	0.23	EPA 524.2		2/21/17 19:42	DD	A
Methyl methacrylate	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 19:42	DD	A
Methyl acrylate	ND		ug/L	1.0	0.21	EPA 524.2		2/21/17 19:42	DD	A
Methyl t-Butyl Ether	515		ug/L	50.0	9.0	EPA 524.2		2/21/17 17:40	DD	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/L	2.5	0.56	EPA 524.2		2/21/17 19:42	DD	A
Methylene Chloride	ND		ug/L	0.50	0.32	EPA 524.2		2/21/17 19:42	DD	A
Naphthalene	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 19:42	DD	A
Nitrobenzene	ND		ug/L	5.0	1.8	EPA 524.2		2/21/17 19:42	DD	A
2-Nitropropane	ND		ug/L	2.5	0.80	EPA 524.2		2/21/17 19:42	DD	A
Pentachloroethane	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:42	DD	A

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

ANALYTICAL RESULTS

Workorder: 2209471 2017-CALVERT CITGO/5977

Lab ID: **2209471004**

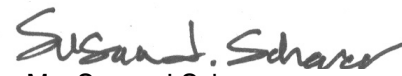
Date Collected: 2/16/2017 10:30

Matrix: Drinking Water

Sample ID: **DW-004C**

Date Received: 2/17/2017 21:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Propionitrile	ND		ug/L	2.5	0.70	EPA 524.2		2/21/17 19:42	DD	A	
n-Propylbenzene	ND		ug/L	0.50	0.10	EPA 524.2		2/21/17 19:42	DD	A	
Styrene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:42	DD	A	
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:42	DD	A	
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.13	EPA 524.2		2/21/17 19:42	DD	A	
Tetrachloroethene	ND		ug/L	0.50	0.17	EPA 524.2		2/21/17 19:42	DD	A	
Tetrahydrofuran	ND		ug/L	2.5	0.81	EPA 524.2		2/21/17 19:42	DD	A	
Toluene	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 19:42	DD	A	
Total Xylenes	ND		ug/L	0.50	0.27	EPA 524.2		2/21/17 19:42	DD	A	
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:42	DD	A	
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.14	EPA 524.2		2/21/17 19:42	DD	A	
1,1,1-Trichloroethane	ND		ug/L	0.50	0.15	EPA 524.2		2/21/17 19:42	DD	A	
1,1,2-Trichloroethane	ND		ug/L	0.50	0.20	EPA 524.2		2/21/17 19:42	DD	A	
Trichloroethene	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:42	DD	A	
Trichlorofluoromethane	ND		ug/L	0.50	0.18	EPA 524.2		2/21/17 19:42	DD	A	
1,2,3-Trichloropropane	ND		ug/L	0.50	0.28	EPA 524.2		2/21/17 19:42	DD	A	
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:42	DD	A	
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.11	EPA 524.2		2/21/17 19:42	DD	A	
Vinyl Acetate	ND		ug/L	0.50	0.22	EPA 524.2		2/21/17 19:42	DD	A	
Vinyl Chloride	ND		ug/L	0.50	0.23	EPA 524.2		2/21/17 19:42	DD	A	
o-Xylene	ND		ug/L	0.50	0.12	EPA 524.2		2/21/17 19:42	DD	A	
mp-Xylene	ND		ug/L	0.50	0.21	EPA 524.2		2/21/17 19:42	DD	A	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichlorobenzene-d4 (S)	106		%	70 - 130		EPA 524.2			2/21/17 19:42	DD	A
1,2-Dichlorobenzene-d4 (S)	88.9		%	70 - 130		EPA 524.2			2/21/17 17:40	DD	A
4-Bromofluorobenzene (S)	110		%	70 - 130		EPA 524.2			2/21/17 19:42	DD	A
4-Bromofluorobenzene (S)	85.4		%	70 - 130		EPA 524.2			2/21/17 17:40	DD	A



Ms. Susan J Scherer

Project Coordinator

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

OFF SITE HOUSE # 2794

34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430



**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Co. Name: REPSG Inc.
Contact (Report to): James Manuel
Address: 6961 Kingsessing Ave
Philadelphia, PA, 19142
Phone: 215-729-3220

Bill to (if different than Report to):
Same PO#: 13802

Project Name/#: Calvert Ctg 5077 ALS Quote #:

TAT: Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.

Email? Y N jmanuel@REPSG
Fax? Y N

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	Matrix	Enter Number of Containers Per Analysis
1 DW - 004K	Post Filtration	2-16-17	1015	G DW 3	
2 DW - 004J	Mid Carbon 2	2-16-17	1020	G DW 3	
3 DW - 004I	Mid Carbon 1	2-16-17	1025	G DW 3	
4 DW - 004C	Pre Filtration	2-16-17	1030	G DW 3	
5					
6					
7					
8					

Wate by S24.2
inc. used oxygens

SAMPLED BY (Please Print): DANG PHUNG

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Calvin Munoz / REPSG	2-17-17	0945	James Manuel	2-17	0945
James Rodena	2-17	2100	James Manuel	2-17	1930
James Manuel	2-17	2100	James Manuel	2-17	2100
					10

Project Comments:

ANALYSES/METHOD REQUESTED		Data Deliverables		SDWA Form/Co		State Samples Collected In?	
Standard	<input type="checkbox"/>	Standard	<input type="checkbox"/>	yes	<input type="checkbox"/>	MD	<input checked="" type="checkbox"/>
CLP-like	<input type="checkbox"/>	CLP-like	<input type="checkbox"/>	yes	<input type="checkbox"/>	NJ	<input type="checkbox"/>
NJ-Reduced	<input type="checkbox"/>	NJ-Reduced	<input type="checkbox"/>	yes	<input type="checkbox"/>	NY	<input type="checkbox"/>
NJ-Full	<input type="checkbox"/>	NJ-Full	<input type="checkbox"/>	yes	<input type="checkbox"/>	PA	<input type="checkbox"/>
		EQUIS		EQUIS		EQUIS	

ALS FIELD SERVICES

Pickup	<input type="checkbox"/>
Labor	<input type="checkbox"/>
Composite Sampling	<input type="checkbox"/>
Rental Equipment	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Correct containers?	<input checked="" type="checkbox"/> Y	Correct sample volume?	<input checked="" type="checkbox"/> Y	Received on ice?	<input checked="" type="checkbox"/> Y	COC Labels complete/accurate?	<input checked="" type="checkbox"/> Y	Container in good condition?	<input checked="" type="checkbox"/> Y
Correct containers?	<input checked="" type="checkbox"/> Y	Correct sample volume?	<input checked="" type="checkbox"/> Y	Received on ice?	<input checked="" type="checkbox"/> Y	COC Labels complete/accurate?	<input checked="" type="checkbox"/> Y	Container in good condition?	<input checked="" type="checkbox"/> Y
Correct containers?	<input checked="" type="checkbox"/> Y	Correct sample volume?	<input checked="" type="checkbox"/> Y	Received on ice?	<input checked="" type="checkbox"/> Y	COC Labels complete/accurate?	<input checked="" type="checkbox"/> Y	Container in good condition?	<input checked="" type="checkbox"/> Y



Performed by: [Signature]
Cooler Temp: [Blank]
Therm. ID: [Blank]
No. of Coolers: [Blank]
Notes: [Blank]