

**Appendix D** Inorganic Analytical Laboratory Reports – October through December 2012

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3417

LAB#- ECL026876-001      SAMPLE ID- 11711 Serene-First Draw  
LOCATION- Total  
DATE SAMPLED- 10/16/2012      TIME SAMPLED- 8:05      SAMPLER- M. Emery  
DATE RECEIVED- 10/16/2012      TIME RECEIVED- 10:15  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 1 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	3.6      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3417

LAB#- ECL026876-002      SAMPLE ID- 11711 Serene-First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 10/16/2012      TIME SAMPLED- 8:05      SAMPLER- M. Emery  
DATE RECEIVED- 10/16/2012      TIME RECEIVED- 10:15  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 2 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/20/2012 21:19	SES	0.069 ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	1.4 µg/L	1.0

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Gm Vly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3417

LAB#- ECL026876-003      SAMPLE ID- 11711 Serene-Flushed  
LOCATION- Total  
DATE SAMPLED- 10/16/2012      TIME SAMPLED- 8:40      SAMPLER- M. Emery  
DATE RECEIVED- 10/16/2012      TIME RECEIVED- 10:15  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 3 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0      µg/L	1.0

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Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3417

LAB#- ECL026876-004      SAMPLE ID- 11711 Serene-Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 10/16/2012      TIME SAMPLED- 8:40      SAMPLER- M. Emery  
DATE RECEIVED- 10/16/2012      TIME RECEIVED- 10:15  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 4 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/20/2012 22:16	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0

  
LABORATORY DIRECTOR

Phone No.: 410-740-7411

Fax No.: 410-740-3299

Client: Chesapeake Geo Sciences, Inc.

Project Manager: Sean Daniel

Email: SDaniel@egs.us.com

Sampler: Matt Emery

Project Number: CG-10-0788-03

Project Name: Green Valley Litigo

P.O. Number: CG18078803 SD

Enviro-Chem Lab No. Sample Identification (As it is to appear on report) Date Sampled Time Sampled Matrix

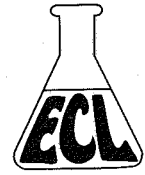
26876-001, 002 11715 SENE - First Draw 10/16/13 08:05 DW 3 5 X X X  
 26876-003, 004 11711 SENE - Flushed 10/16/13 08:40 DW 3 5 X X X

Total Lead + Total Chromium EPA 200.8  
 Dissolved Lead + Dissolved Chromium EPA 200.8  
 Hexavalent Chromium EPA 212.7

Preservative Key:  
 NA = Nitric Acid, pH < 2  
 SA = Sulfuric Acid, pH < 2  
 OH = NaOH, pH > 12  
 Th = Thiosulfate  
 Zn = Zinc Acetate  
 N = None, Chilled  
 X = Other

ECL Log in Batch Number	No. of Containers	Sample Type	Preservative	C = Comp, G = Grab	Total Lead + Total Chromium EPA 200.8	Dissolved Lead + Dissolved Chromium EPA 200.8	Hexavalent Chromium EPA 212.7	Deliverables Required	# Coolers	Seal	Ice Present	Temp	Turnaround Requested			Special instructions, Comments:	Completed by	
													STD	1-Day	Other			
10101	1015	Received By	Received By	Received By	Received By	Received By	Received By	Received By	Received By	Received By	Received By	Received By	Date	Time	Date	Time	Date	Time

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3492

LAB#- ECL026973-001      SAMPLE ID- 11712 Serene - First Draw  
LOCATION-                  Total  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 15:00      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 1 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	1.2      µg/L	1.0

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Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3492

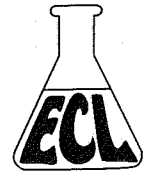
LAB#- ECL026973-002      SAMPLE ID- 11712 Serene - First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 15:00      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 2 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 06:33	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0



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5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3492

LAB#- ECL026973-003      SAMPLE ID- 11712 Serene - Flushed  
LOCATION-      Total  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 15:40      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 3 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	323      µg/L	1.0

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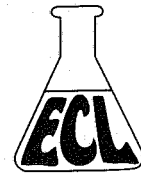
PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3492

LAB#- ECL026973-004      SAMPLE ID- 11712 Serene - Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 15:40      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 4 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 06:52	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	76.1 µg/L	1.0

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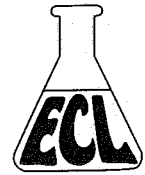
PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3492

LAB#- ECL026973-005      SAMPLE ID- 3996 Farm - First Draw  
LOCATION-      Total  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 16:15      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 5 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	19.2      µg/L	1.0

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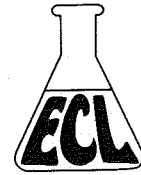
PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3492

LAB#- ECL026973-006      SAMPLE ID- 3996 Farm - First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 16:15      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 6 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 07:48	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	7.4 µg/L	1.0

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

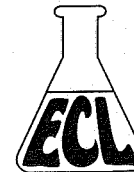
PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3492

LAB#- ECL026973-007      SAMPLE ID- 3996 Farm - Flushed  
LOCATION- Total  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 16:40      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 7 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



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410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

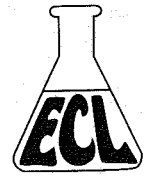
PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3492

LAB#- ECL026973-008      SAMPLE ID- 3996 Farm - Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 16:40      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 8 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 08:07	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
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Columbia, MD 21045-

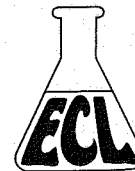
PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3492

LAB#- ECL026973-009      SAMPLE ID- 11712 Serene - Flushed DB  
LOCATION-      Total  
DATE SAMPLED- 10/24/2012      TIME SAMPLED-      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 9 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	129      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

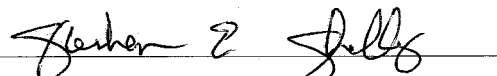
Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3492

LAB#- ECL026973-010      SAMPLE ID- 11712 Serene - Flushed DB  
LOCATION- Dissolved  
DATE SAMPLED- 10/24/2012      TIME SAMPLED-      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 10 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 08:26	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	80.4 µg/L	1.0

  
LABORATORY DIRECTOR



# Sample Chain of Custody

26973  
Sparks, MD 21152

Enviro-Chem Laboratories, Inc. 47 Loveton Circle, Suite K Phone No.: 410-740-1911 Fax No.: 410-740-3299

Client: **Chesapeake GeoSciences, Inc.** ECL Log in Batch Number: \_\_\_\_\_ Page 1 of 1

Project Manager: **Sean Daniel** Email: **sdaniel@egs-vs.com** Project Name: **GV C:tygo/Maravia BP** Project Number: **C6-12-0788.03**

Sampler: **Matt Emery** P.O. Number: **CG12078803SD**

Enviro-Chem Lab No. Sample Identification (As it is to appear on report) Date Sampled Time Sampled Matrix Containers No. of Sample Type C = Comp G = Grab

26743-001 26973-001 11712 Serene - <sup>First</sup> Grav 10/24/12 15:00 DW 3 G X X X

26743-003 26973-003 11712 Serene - Flushed 10/24/12 15:40 DW 3 G X X X

26743-004 26973-004 3996 Farm - First Grav 10/24/12 16:15 DW 3 G X X X

26743-005 26973-005 3996 Farm - Flushed 10/24/12 16:40 DW 3 G X X X

26743-006 26973-006 11712 Serene - Flushed 05 10/24/12 DW 3 G X X X

Total Chromium/Total Lead EPA 200.8  
Dissolved Lead/Dissolved Chem. 200.8  
Hexavalent Chrom. EPA 212.7

Preservative Key:  
NA = Nitric Acid, pH < 2  
SA = Sulfuric Acid, pH < 2  
OH = NaOH, pH > 12  
Th = Thiosulfate  
Zn = Zinc Acetate  
N = None, Chilled  
X = Other

Collected / Relinquished By	Date	Time	Received By	Deliverables Required	# Coolers	Seal
Matt Emery	10/25/12	10:05	Sean Daniel		1	

Relinquished By	Date	Time	Received By	Turnaround Requested	Rush?	Ice Present	Temp
				STD			5.9°C

COC/Labels match	# of Samples	# of Bottles	Explain any "NO" answers	Completed by
Y	10	15		CTC

Bottles intact/appropriate: Y N N NA  
 F.A. - 12/24/12 15:30 CTC  
 Phone 410-472-1112 www.enviro-chem.net Fax: 410-472-1116 ECL Doc 1 (06/29/12)

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Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
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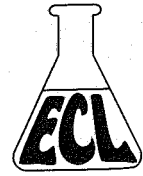
PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3486

LAB#- ECL026962-001      SAMPLE ID- 3740 Blueberry-First Draw  
LOCATION-      Total  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 7:10      SAMPLER- L. Bennett  
DATE RECEIVED- 10/24/2012      TIME RECEIVED- 10:40  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 1 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	2.9      µg/L	1.0

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## FINAL REPORT OF ANALYSES

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5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3486

LAB#- ECL026962-002      SAMPLE ID- 3740 BLueberry-First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 7:10      SAMPLER- L. Bennett  
DATE RECEIVED- 10/24/2012      TIME RECEIVED- 10:40  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 2 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 04:39	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0

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Chesapeake GeoSciences, Inc.  
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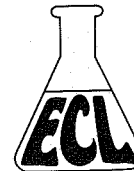
PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3486

LAB#- ECL026962-003      SAMPLE ID- 3740 Blueberry-Flushed  
LOCATION-      Total  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 7:55      SAMPLER- L. Bennett  
DATE RECEIVED- 10/24/2012      TIME RECEIVED- 10:40  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 3 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	23.9      µg/L	1.0

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47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

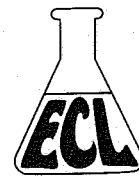
PROJECT NAME: Gm Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3486

LAB#- ECL026962-004      SAMPLE ID- 3740 BBlueberry-Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 7:55      SAMPLER- L. Bennett  
DATE RECEIVED- 10/24/2012      TIME RECEIVED- 10:40  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 4 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 04:58	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	4.6 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3486

LAB#- ECL026962-005      SAMPLE ID- 3995 Farm-First Draw  
LOCATION-                  Total  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 8:20      SAMPLER- L. Bennett  
DATE RECEIVED- 10/24/2012      TIME RECEIVED- 10:40  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 5 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	10.7      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

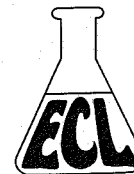
PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3486

LAB#- ECL026962-006      SAMPLE ID- 3995 Farm-First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 8:20      SAMPLER- L. Bennett  
DATE RECEIVED- 10/24/2012      TIME RECEIVED- 10:40  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 6 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 05:17	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	4.7 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3486

LAB#- ECL026962-007      SAMPLE ID- 3995 Farm-Flushed  
LOCATION- Total  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 8:55      SAMPLER- L. Bennett  
DATE RECEIVED- 10/24/2012      TIME RECEIVED- 10:40  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 7 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	18.7      µg/L	1.0



# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

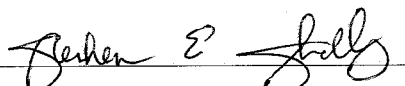
Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3486

LAB#- ECL026962-008      SAMPLE ID- 3995 Farm-Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 10/24/2012      TIME SAMPLED- 8:55      SAMPLER- L. Bennett  
DATE RECEIVED- 10/24/2012      TIME RECEIVED- 10:40  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 8 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 05:36	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	13.8 µg/L	1.0

  
LABORATORY DIRECTOR

# Sample Chain of Custody

(NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> +  
(NH<sub>4</sub>OH)

Enviro-Chem Laboratories, Inc.  
Client: Chesapeake Geosciences, Inc. (CGS)

47 Loveton Circle, Suite K  
Phone No.: 410-740-1911

Sparks, MD 21152  
Page 1 of 1

Project Manager: Sean Daniel  
Fax No.: 410-740-3299  
Sampler: Lara Bennett  
Email: Sdaniel@gs.us.com  
Former Valley City (FVC)  
Project Name: Montevia BP  
Project Number: CG-12-0788.03  
P.O. Number: CG 126788.03 SD

ECL Log in Batch Number  
Preservative: N NA  
Sample Type: C = Comp. G = Grab  
Containers: No. of Containers

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type	Preservative	Deliverables Required	Due Date	Ice Present	Temp	Remarks
26962-001	37408 Blueberry - Draw	10/24/12	07:10	DW	3	G	N	Total Chromium Total Lead Dissolved Lead Dissolved Chromium Hexavalent Chromium EPA 218.7				
26962-002	37408 Blueberry - Flushed	10/24/12	07:55	DW	3	G	NA					
26962-003	3995 Farm - Draw	10/24/12	08:20	DW	3	G	NA					
26962-004	3995 Farm - Flushed	10/24/12	08:55	DW	3	G	NA					
26962-005												
26962-006												
26962-007												
26962-008												
Collected / Relinquished By		Date	Time	Received By								
<i>[Signature]</i>		10/24/12	10:40	<i>[Signature]</i>								
Relinquished By		Date	Time	Received By								
Relinquished By		Date	Time	Received By								
Relinquished By		Date	Time	Received By								
COC/Labels match	Y	N	# of Samples	# of Bottles	Y	N	NA	Explain any "NO" answers				
Bottles intact/appropriate	Y	N	Preserved correctly	Y	N	NA	Preservative added at Lab	Y	N	NA	Completed by	

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3639

LAB#- ECL027052-001      SAMPLE ID- 3806 Greenridge - First Draw  
LOCATION-      Total  
DATE SAMPLED- 11/6/2012      TIME SAMPLED- 5:05      SAMPLER- M. Emery  
DATE RECEIVED- 11/6/2012      TIME RECEIVED- 9:00  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 1 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	2.3      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3639

LAB#- ECL027052-002      SAMPLE ID- 3806 Greenridge - First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 11/6/2012      TIME SAMPLED- 5:05      SAMPLER- M. Emery  
DATE RECEIVED- 11/6/2012      TIME RECEIVED- 9:00  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 2 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/13/2012 22:28	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0 µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.7 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

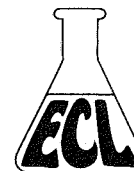
Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3639

LAB#- ECL027052-003      SAMPLE ID- 3806 Greenridge - Flushed  
LOCATION-      Total  
DATE SAMPLED- 11/6/2012      TIME SAMPLED- 5:35      SAMPLER- M. Emery  
DATE RECEIVED- 11/6/2012      TIME RECEIVED- 9:00  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 3 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0      µg/L	1.0



FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

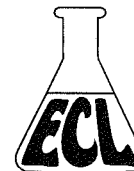
PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3639

LAB#- ECL027052-004      SAMPLE ID- 3806 Greenridge - Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 11/6/2012      TIME SAMPLED- 5:35      SAMPLER- M. Emery  
DATE RECEIVED- 11/6/2012      TIME RECEIVED- 9:00  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 4 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/13/2012 23:24	SES	0.073 ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vily Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3639

LAB#- ECL027052-005      SAMPLE ID- 11789 Thomas Spring - First Draw  
LOCATION-      Total  
DATE SAMPLED- 11/6/2012      TIME SAMPLED- 6:05      SAMPLER- M. Emery  
DATE RECEIVED- 11/6/2012      TIME RECEIVED- 9:00  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 5 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	2.5      µg/L	1.0



FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3639

LAB#- ECL027052-006      SAMPLE ID- 11789 Thomas Spring - First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 11/6/2012      TIME SAMPLED- 6:05      SAMPLER- M. Emery  
DATE RECEIVED- 11/6/2012      TIME RECEIVED- 9:00  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 6 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/13/2012 23:43	SES	0.029 ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.2 µg/L	1.0



# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3639

LAB#- ECL027052-007      SAMPLE ID- 11789 Thomas Spring - Flushed  
LOCATION-      Total  
DATE SAMPLED- 11/6/2012      TIME SAMPLED- 6:45      SAMPLER- M. Emery  
DATE RECEIVED- 11/6/2012      TIME RECEIVED- 9:00  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 7 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0



FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3639

LAB#- ECL027052-008      SAMPLE ID- 11789 Thomas Spring - Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 11/6/2012      TIME SAMPLED- 6:45      SAMPLER- M. Emery  
DATE RECEIVED- 11/6/2012      TIME RECEIVED- 9:00  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 8 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 00:02	SES	0.150 ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0

  
LABORATORY DIRECTOR

# Sample Chain of Custody

(NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>

Sparks, MD 21152

Enviro-Chem Laboratories, Inc.

47 Loveton Circle, Suite K

Client: Chesapeake Sea Sciences, Inc. Phone No.: 410-740-911 ECL Log in Batch Number + (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>

Project Manager: Sean Daniel Fax No.: 410-740-3299 Page of

Sampler: Matt Emery Email: sdaniel@egs.us.com

Project Name: GLC3go/Mentavia BP Project Number: CG-12-0788.03

P.O. Number: CG1207880350

Enviro-Chem Lab No. Sample Identification (As it is to appear on report) Date Sampled Time Sampled Matrix

27052-001 3806 Green Ridge - Draw 11/6/12 05:05 DW 3 G X X X

27052-002 3806 Green Ridge - Draw 11/6/12 05:35 DW 3 G X X X

27052-003 3806 Green Ridge - Draw 11/6/12 06:05 DW 3 G X X X

27052-004 1789 Thomas Spring - Field 11/6/12 06:45 DW 3 G X X X

27052-005 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-006 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-007 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-008 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-009 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-010 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-011 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-012 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-013 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-014 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-015 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-016 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-017 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-018 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-019 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-020 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-021 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

27052-022 1789 Thomas Spring - Field 11/6/12 09:00 DW 3 G X X X

Total Lead + EPA  
Total Chromium 2009  
Dissolved Lead + EPA  
Dissolved Chromium 2009  
Hexavalent EPA  
Chromium 20.7

Preservative Key:  
NA = Nitric Acid, pH <2  
SA = Sulfuric Acid, pH <2  
OH = NaOH, pH >12  
Th = Thiocyanate  
Zn = Zinc Acetate  
N = None, Chilled  
X = Other

Remarks

Collected / Relinquished By	Date	Time	Received By	Deliverables Required	# Coolers	Seal
<u>Matt Emery</u>	<u>11/6/12</u>	<u>09:00</u>	<u>Sean Daniel</u>			
Relinquished By	Date	Time	Received By	Turnaround Requested	Rush?	Ice Present
				STD		Temp
				1-Day		
				Other		
Special Instructions, Comments:						
Completed by						

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 18-Dec-12  
REPORT NUMBER: 3937

LAB#- ECL027334-001      SAMPLE ID- 3833 Greenridge First Draw  
LOCATION-      Total  
DATE SAMPLED- 12/1/2012      TIME SAMPLED- 7:15      SAMPLER- L. Bennett  
DATE RECEIVED- 12/3/2012      TIME RECEIVED- 12:25  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 1 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	12/14/2012 11:06	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	12/14/2012 11:06	CHK	5.1      µg/L	1.0

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Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 18-Dec-12  
REPORT NUMBER: 3937

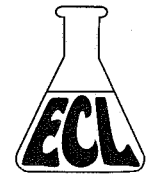
LAB#- ECL027334-002      SAMPLE ID- 3833 Greenridge First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 12/1/2012      TIME SAMPLED- 7:15      SAMPLER- L. Bennett  
DATE RECEIVED- 12/3/2012      TIME RECEIVED- 12:25  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 2 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	12/7/2012 12:24	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	12/14/2012 11:06	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	12/14/2012 11:06	CHK	4.8 µg/L	1.0

Chromate %R for Matrix Spike and Matrix Spike Duplicate outside control limits. Suspect/Matrix

# ENVIRO-CHEM LABORATORIES, INC.



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410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

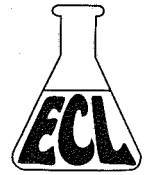
PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 18-Dec-12  
REPORT NUMBER: 3937

LAB#- ECL027334-003      SAMPLE ID- 3833 Greenridge Flushed  
LOCATION- Total  
DATE SAMPLED- 12/1/2012      TIME SAMPLED- 7:35      SAMPLER- L. Bennett  
DATE RECEIVED- 12/3/2012      TIME RECEIVED- 12:25  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 3 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	12/14/2012 11:06	CHK	< 1.0	µg/L 1.0
Lead	EPA 200.8	12/14/2012 11:06	CHK	39.3	µg/L 1.0

# ENVIRO-CHEM LABORATORIES, INC.



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410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 18-Dec-12  
REPORT NUMBER: 3937

LAB#- ECL027334-004      SAMPLE ID- 3833 Greenridge Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 12/1/2012      TIME SAMPLED- 7:35      SAMPLER- L. Bennett  
DATE RECEIVED- 12/3/2012      TIME RECEIVED- 12:25  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 4 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	12/7/2012 13:21	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	12/14/2012 11:06	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	12/14/2012 11:06	CHK	26.1 µg/L	1.0

Chromate %R for Matrix Spike and Matrix Spike Duplicate outside control limits. Suspect/Matrix

  
LABORATORY DIRECTOR

# Sample Chain of Custody

Enviro-Chem Laboratories, Inc.

47 Loveton Circle, Suite K

Sparks, MD 21152

$(NH_4)_2SO_4$   
+  $(NH_4)OH$

Client: Chesapeake GeoSciences, Inc. (CGS)		Phone No.: 410-740-1911		ECL Log in Batch Number		Page 1 of 1	
Project Manager: Sean		Fax No.: (410) 740-3299		Preservative		Sample Type	
Sampler: Lara Bennett		Email: Sdaniel@cgs.us.com		C = Comp.		G = Grab	
Project Name: Former GUCitgo/Monrovia BP		Project Number: CG-12-0788.03		No. of Containers		Remarks	
P.O. Number: CG12078803SD		Matrix		3		G	
Sample Identification (As it is to appear on report)		Date Sampled		Time Sampled		Matrix	
3833Greenridge - <sup>Fast</sup>		12/1/12		7:15		DW	
3833Greenridge - <sup>Fast</sup>		12/1/12		7:35		DW	
27334-001							
27334-002							
27334-003							
27334-004							
27334-005							
27334-006							
27334-007							
27334-008							
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27334-198							
27334-199							
27334-200							

Preservative Key:  
 NA = Nitric Acid, pH <2  
 SA = Sulfuric Acid, pH <2  
 OH = NaOH, pH >12  
 TI = Thiosulfate  
 Zn = Zinc Acetate  
 N = None, Chilled  
 X = Other

Deliverables Required  
 Due Date  
 Turnaround Requested  
 STD 1-Day Other  
 Special instructions, Comments:

Collected / Relinquished By  
 Relinquished By  
 Relinquished By  
 Relinquished By

# of Samples Preserved correctly  
 # of Bottles  
 Explain any "NO" answers

Total metals bottles acidified



# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3414

LAB#- ECL026908-001      SAMPLE ID- 3923 Rosewood-First Draw  
LOCATION-            Total  
DATE SAMPLED- 10/18/2012      TIME SAMPLED- 7:15      SAMPLER- L. Bennett  
DATE RECEIVED- 10/18/2012      TIME RECEIVED- 9:50  
DELIVERED BY- L. Bennett      RECEIVED BY- VPS

Page 1 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	6.4      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3414

LAB#- ECL026908-002      SAMPLE ID- 3923 Rosewood-First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 10/18/2012      TIME SAMPLED- 7:15      SAMPLER- L. Bennett  
DATE RECEIVED- 10/18/2012      TIME RECEIVED- 9:50  
DELIVERED BY- L. Bennett      RECEIVED BY- VPS

Page 2 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/20/2012 23:12	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	4.6 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

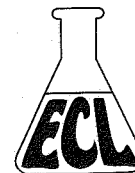
PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3414

LAB#- ECL026908-003      SAMPLE ID- 3923 Rosewood-Flushed  
LOCATION-      Total  
DATE SAMPLED- 10/18/2012      TIME SAMPLED- 7:45      SAMPLER- L. Bennett  
DATE RECEIVED- 10/18/2012      TIME RECEIVED- 9:50  
DELIVERED BY- L. Bennett      RECEIVED BY- VPS

Page 3 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	2.4      µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	1.7      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

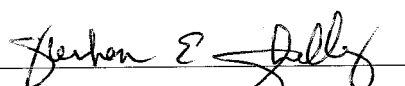
Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3414

LAB#- ECL026908-004      SAMPLE ID- 3923 Rosewood-Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 10/18/2012      TIME SAMPLED- 7:45      SAMPLER- L. Bennett  
DATE RECEIVED- 10/18/2012      TIME RECEIVED- 9:50  
DELIVERED BY- L. Bennett      RECEIVED BY- VPS

Page 4 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/20/2012 23:31	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	1.6 µg/L	1.0

  
LABORATORY DIRECTOR

Enviro-Chem Laboratories, Inc.

# Sample Chain of Custody

47 Loveton Circle, Suite K

Sparks, MD 21152

Client: **Chesapeake GeoSciences, Inc.**

Phone No.: **410-740-1911**

ECL Log in Batch Number

(N/A) (604)

Page **1** of **1**

Project Manager: **Sean Daniel**

Fax No.: **410-740-3299**

Sampler: **Lara Bennett**

Email: **Sdaniel@egs.us.com**

Project Name: **Green Valley Citygo (GVC)**

Project Number: **CG-12-0788.03**

P.O. Number: **CG120788.03 SD**

No. of Containers  
C = Comp.  
G = Grab

Preservative Type  
N (N/A) (KOH)  
Dissolved Lead + Dissolved Chromium  
Hexavalent Chromium  
EPA 218.7

Preservative Key:  
NA = Nitric Acid, pH <2  
SA = Sulfuric Acid, pH <2  
OH = NaOH, pH >12  
Th = Thiosulfate  
Zn = Zinc Acetate  
N = None, Chilled  
X = Other

Remarks

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type	Preservative	Total Lead + Total Chromium EPA 200.8	Dissolved Lead + Dissolved Chromium	Hexavalent Chromium EPA 218.7	Deliverables Required	# Coolers	Seal	Turnaround Requested			Rush?
														STD	1-Day	Other	
26908-001 (FRESH)	3923 Rosewood - First	10/18/12	07:15	DW	3	G	N	X	X	X		1					
26908-002 (DIS)	3923 Rosewood - Draw	10/18/12	07:15	DW	3	G	N	X	X	X		1					
26908-003 (FRESH)	3923 Rosewood - Focused	10/18/12	07:45	DW	3	G	N	X	X	X		1					
26908-004 (DIS)																	
Collected / Relinquished By														Date	Time	Received By	
Relinquished By														Date	Time	Received By	
Relinquished By														Date	Time	Received By	

COCL/Labels match Y N # of Samples Preserved correctly Y N # of Bottles NA

Bottles intact/appropriate Y N Preservative added at Lab Y N NA

Explain any "NO" answers

Completed by

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

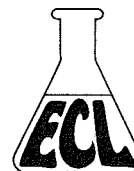
PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3641

LAB#- ECL027072-001      SAMPLE ID- 3984A Farm First Draw  
LOCATION-      Total  
DATE SAMPLED- 11/7/2012      TIME SAMPLED- 7:05      SAMPLER- L. Bennet  
DATE RECEIVED- 11/7/2012      TIME RECEIVED- 10:05  
DELIVERED BY- M. Emery      RECEIVED BY- AAA

Page 1 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.9      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3641

LAB#- ECL027072-002      SAMPLE ID- 3984A Farm First Draw  
LOCATION-      Dissolved  
DATE SAMPLED- 11/7/2012      TIME SAMPLED- 7:05      SAMPLER- L. Bennet  
DATE RECEIVED- 11/7/2012      TIME RECEIVED- 10:05  
DELIVERED BY- M. Emery      RECEIVED BY- AAA

Page 2 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 00:21	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0 µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3641

LAB#- ECL027072-003      SAMPLE ID- 3984A Farm Flushed  
LOCATION-                  Total  
DATE SAMPLED- 11/7/2012      TIME SAMPLED- 7:42      SAMPLER- L. Bennet  
DATE RECEIVED- 11/7/2012      TIME RECEIVED- 10:05  
DELIVERED BY- M. Emery      RECEIVED BY- AAA

Page 3 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0



# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3641

LAB#- ECL027072-004      SAMPLE ID- 3984A Farm Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 11/7/2012      TIME SAMPLED- 7:42      SAMPLER- L. Bennet  
DATE RECEIVED- 11/7/2012      TIME RECEIVED- 10:05  
DELIVERED BY- M. Emery      RECEIVED BY- AAA

Page 4 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 00:40	SES	0.022 ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0 µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	2.3 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

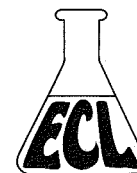
PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3641

LAB#- ECL027072-005      SAMPLE ID- 3990 Farm First Draw  
LOCATION-                  Total  
DATE SAMPLED- 11/7/2012      TIME SAMPLED- 8:07      SAMPLER- L. Bennet  
DATE RECEIVED- 11/7/2012      TIME RECEIVED- 10:05  
DELIVERED BY- M. Emery      RECEIVED BY- AAA

Page 5 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	2.9      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3641

LAB#- ECL027072-006      SAMPLE ID- 3990 Farm First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 11/7/2012      TIME SAMPLED- 8:07      SAMPLER- L. Bennet  
DATE RECEIVED- 11/7/2012      TIME RECEIVED- 10:05  
DELIVERED BY- M. Emery      RECEIVED BY- AAA

Page 6 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 00:59	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0 µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.0 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3641

LAB#- ECL027072-007      SAMPLE ID- 3990 Farm Flushed  
LOCATION-                  Total  
DATE SAMPLED- 11/7/2012      TIME SAMPLED- 8:42      SAMPLER- L. Bennet  
DATE RECEIVED- 11/7/2012      TIME RECEIVED- 10:05  
DELIVERED BY- M. Emery      RECEIVED BY- AAA

Page 7 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

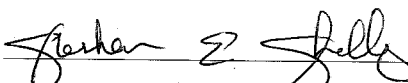
Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 20-Nov-12  
REPORT NUMBER: 3641

LAB#- ECL027072-008      SAMPLE ID- 3990 Farm Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 11/7/2012      TIME SAMPLED- 8:42      SAMPLER- L. Bennet  
DATE RECEIVED- 11/7/2012      TIME RECEIVED- 10:05  
DELIVERED BY- M. Emery      RECEIVED BY- AAA

Page 8 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 01:18	SES	<0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0

  
LABORATORY DIRECTOR

(NH4)2SO4  
+ (NH4)OH

# Sample Chain of Custody

Sparks, MD 21152

Enviro-Chem Laboratories, Inc.  
47 Loveton Circle, Suite K

Client: Chesapeake GeoScience    Phone No.: (410) 740-1911    ECL Log in Batch Number: \_\_\_\_\_ of \_\_\_\_\_

Project Manager: Sean Daniel    Fax No.: (410) 740-3299

Sampler: Lara Bennett    Email: edaniel@cgs.us.com

Project Name: GY Citgo/Monrovia BP    Project Number: CG-12-0788-03

P.O. Number: \_\_\_\_\_

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Preservative		Sample Type C = Comp. G = Grab	Remarks
						N	NA		
27072	3984A Farm - Draw	11/7/12	07:05	DW	3	X	X	G	
	3984A Farm - Flushed	11/7/12	07:42	DW	3	X	X	G	
	3990 Farm - Draw	11/7/12	08:07	DW	3	X	X	G	
	3990 Farm - Flushed	11/7/12	08:42	DW	3	X	X	G	
<del>_____</del>									
Collected/Relinquished By <i>Lara Bennett</i>	Lara Bennett	Date 11/7/12	Time 10:05	Received By <i>[Signature]</i>					
Relinquished By		Date	Time	Received By					
Relinquished By		Date	Time	Received By					
Relinquished By		Date	Time	Received By					

Preservative Key:  
NA = Nitric Acid, pH <2  
SA = Sulfuric Acid, pH <2  
OH = NaOH, pH >12  
Th = Thiosulfate  
Zn = Zinc Acetate  
N = None, Chilled  
X = Other

Deliverables Required: \_\_\_\_\_

# Coolers: 1    Seal: \_\_\_\_\_

Ice Present: Yes    Temp: 14.0°C

Turnaround Requested: \_\_\_\_\_

STD: \_\_\_\_\_ 1-Day: \_\_\_\_\_ Other: \_\_\_\_\_

Special instructions, Comments: \_\_\_\_\_

Completed by: *Cellie*

COC/Labels match:  Y  N    # of Bottles: 12    # of Bottles Preserved correctly:  Y  N

Bottles intact/appropriate:  Y  N    Explain any "NO" answers: \_\_\_\_\_

Preservative added at Lab:  Y  N  NA

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-001      SAMPLE ID- 3985 Farm First Draw  
LOCATION- Total  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 15:00      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 1 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0      µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	3.3      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-002      SAMPLE ID- 3985 Farm First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 15:00      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 2 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 11:41	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0 µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	1.3 µg/L	1.0



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410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-003      SAMPLE ID- 3985 Farm Flushed  
LOCATION- Total  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 15:30      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 3 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L 1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	1.0	µg/L 1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

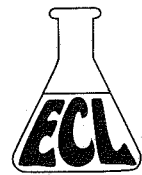
PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-004      SAMPLE ID- 3985 Farm Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 15:30      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 4 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 12:38	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0 µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	< 1.0 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-005      SAMPLE ID- 3933 Rosewood First Draw  
LOCATION-      Total  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 15:55      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 5 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L 1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	2.4	µg/L 1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-006      SAMPLE ID- 3933 Rosewood First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 15:55      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 6 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 12:56	SES	<0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	<1.0 µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	1.3 µg/L	1.0

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-007      SAMPLE ID- 3933 Rosewood Flushed  
LOCATION- Total  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 16:30      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 7 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	7.2      µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	<1.0      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



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410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-008      SAMPLE ID- 3933 Rosewood Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 16:30      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 8 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 13:15	SES	< 0.020	ug/L Cr 0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L 1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L 1.0

# ENVIRO-CHEM LABORATORIES, INC.



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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-009      SAMPLE ID- 11894 Barley First Draw  
LOCATION- Total  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 16:55      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 9 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L 1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	4.8	µg/L 1.0

# ENVIRO-CHEM LABORATORIES, INC.



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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-010      SAMPLE ID- 11894 Barley First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 16:55      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 10 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 13:34	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0 µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	3.0 µg/L	1.0



# ENVIRO-CHEM LABORATORIES, INC.



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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-011      SAMPLE ID- 11894 Barley Flushed  
LOCATION- Total  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 17:30      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 11 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L 1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	2.2	µg/L 1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

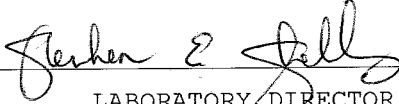
Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3653

LAB#- ECL027154-012      SAMPLE ID- 11894 Barley Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 11/13/2012      TIME SAMPLED- 17:30      SAMPLER- M. Emery  
DATE RECEIVED- 11/14/2012      TIME RECEIVED- 11:05  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 12 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 13:53	SES	0.026 ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	1.3 µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	1.9 µg/L	1.0

  
LABORATORY DIRECTOR

# Sample Chain of Custody

Enviro-Chem Laboratories, Inc.

47 Loveton Circle, Suite K

Sparks, MD 21152

Client: Chesapeake Geo Sciences, Inc. Phone No.: 410-740-1911  
 Project Manager: Sean Daniel Fax No.: 410-740-3299  
 Sampler: Matt Emery Email: Sdaniel@CGS.us.com  
 Project Name: GV Ligo / Montavia BP Project Number: CG-12-0788.03  
 P.O. Number: CG12078803SD

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	ECL Log in Batch Number		Preservative	No. of Containers	Sample Type C = Comp. G = Grab	Remarks
					N	NA				
ECL027154-001	3985 Farm - First	11/13/12	15:00	DW	X	X		3	G	
ECL027154-002	3985 Farm - Draw		15:30	DW	X	X		3	G	
ECL027154-003	3933 Reservoir - First		15:55	DW	X	X		3	G	
ECL027154-004	3933 Reservoir - Draw		16:30	DW	X	X		3	G	
ECL027154-005	11894 Barley - First		16:55	DW	X	X		3	G	
ECL027154-006	11894 Barley - Draw	11/13/12	17:30	DW	X	X		3	G	
ECL027154-007										
ECL027154-008										
ECL027154-009										
ECL027154-010										
ECL027154-011										
ECL027154-012										
Collected / Relinquished By	Date		Time	Received By	Deliverables Required		# Coolers	Seal		
Relinquished By	Date		Time	Received By	Due Date		Ice Present	Temp		
Relinquished By	Date		Time	Received By	Turnaround Requested		Rush?			
Relinquished By	Date		Time	Received By	STD	1-Day	Other			
Special instructions, Comments:										
Completed by										

(containing SA) + (with OH)

Total Lead + EA  
 Total Chromium  
 Dissolved Lead + EA  
 Dissolved Chromium  
 Hexavalent EA  
 Chromium 212.7

Received By: *John Egan*

Relinquished By: *Matt Emery*

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vily Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3652

LAB#- ECL027121-001      SAMPLE ID- 3987 Farm-First Draw  
LOCATION- Total  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 14:00      SAMPLER- M. Emery  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 16:05  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 1 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



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410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3652

LAB#- ECL027121-002      SAMPLE ID- 3987 Farm-First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 14:00      SAMPLER- M. Emery  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 16:05  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 2 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/12/2014 03:49	SES	< 0.020	ug/L Cr 0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L 1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L 1.0

# ENVIRO-CHEM LABORATORIES, INC.



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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3652

LAB#- ECL027121-003      SAMPLE ID- 3987 Farm-Flushed  
LOCATION- Total  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 14:35      SAMPLER- M. Emery  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 16:05  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 3 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	3.3      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

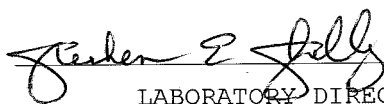
Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3652

LAB#- ECL027121-004      SAMPLE ID- 3987 Farm-Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 14:35      SAMPLER- M. Emery  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 16:05  
DELIVERED BY- M. Emery      RECEIVED BY- SES

Page 4 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/12/2014 04:08	SES	<0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.7 µg/L	1.0

  
LABORATORY DIRECTOR





# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
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Columbia, MD 21045-

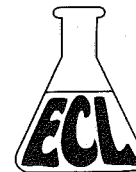
PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3416

LAB#- ECL026927-001      SAMPLE ID- 3989 Farm-First Draw  
LOCATION-      Total  
DATE SAMPLED- 10/19/2012      TIME SAMPLED- 6:10      SAMPLER- M. Emery  
DATE RECEIVED- 10/19/2012      TIME RECEIVED- 9:20  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 1 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	1.2      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3416

LAB#- ECL026927-002      SAMPLE ID- 3989 Farm-First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 10/19/2012      TIME SAMPLED- 6:10      SAMPLER- M. Emery  
DATE RECEIVED- 10/19/2012      TIME RECEIVED- 9:20  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 2 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/21/2012 01:06	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0

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410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

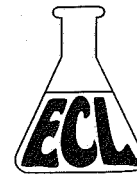
PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3416

LAB#- ECL026927-003      SAMPLE ID- 3989 Farm-Flushed  
LOCATION- Total  
DATE SAMPLED- 10/19/2012      TIME SAMPLED- 6:40      SAMPLER- M. Emery  
DATE RECEIVED- 10/19/2012      TIME RECEIVED- 9:20  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 3 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0      µg/L	1.0

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3416

LAB#- ECL026927-004      SAMPLE ID- 3989 Farm-Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 10/19/2012      TIME SAMPLED- 6:40      SAMPLER- M. Emery  
DATE RECEIVED- 10/19/2012      TIME RECEIVED- 9:20  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 4 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/21/2012 01:25	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3416

LAB#- ECL026927-005      SAMPLE ID- 3989 Farm-FB  
LOCATION- Total  
DATE SAMPLED- 10/19/2012      TIME SAMPLED- 6:55      SAMPLER- M. Emery  
DATE RECEIVED- 10/19/2012      TIME RECEIVED- 9:20  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 5 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

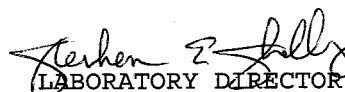
Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3416

LAB#- ECL026927-006      SAMPLE ID- 3989 Farm-FB  
LOCATION- Dissolved  
DATE SAMPLED- 10/19/2012      TIME SAMPLED- 6:55      SAMPLER- M. Emery  
DATE RECEIVED- 10/19/2012      TIME RECEIVED- 9:20  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 6 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/20/2012 01:44	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0

  
LABORATORY DIRECTOR

# Sample Chain of Custody

Enviro-Chem Laboratories, Inc.

47 Loveton Circle, Suite K

Sparks, MD 21152

Client: Chesapeake Geo-Sciences, Inc.

Phone No.: 410-740-1911

ECL Log in Batch Number

Page

of

Project Manager: Sean Daniel

Fax No.: 410-740-3299

Preservative Key:

Sampler: Matt Emery

Email: SDaniel@gs-vs.com

NA = Nitric Acid, pH <2

Project Name: GV Citgo

Project Number: 6-12-0788.03

SA = Sulfuric Acid, pH <2

P.O. Number: 6-12-078803-SD

OH = NaOH, pH >12

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix
26927-001	3989 Farm-First Draw	10/19/12	06:10	OW
26927-002	3989 Farm-Flushed	10/19/12	06:40	OW
26927-003	3989 Farm-FL	10/19/12	06:55	OW

No. of Containers	Preservative		Sample Type	C = Comp. G = Grab	Remarks
	N	NA			
3	X	X	G		Dissolved Lead + Chromium from field filtered.
3	X	X	G		
3	X	X	G		

Deliverables Required	# Coolers	Seal
	1	

Turnaround Requested	Rush?
1-Day	Y

Special Instructions, Comments:
Completed by

Received By	Time	Date
Received By	09:30	10/19/12

Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3654

LAB#- ECL027163-001      SAMPLE ID- 3991 Farm First Draw  
LOCATION- Total  
DATE SAMPLED- 11/14/2012      TIME SAMPLED- 17:20      SAMPLER- M. Emery  
DATE RECEIVED- 11/15/2012      TIME RECEIVED- 9:09  
DELIVERED BY- C. Brown      RECEIVED BY- SES

Page 1 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	1.3      µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	1.3      µg/L	1.0



# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

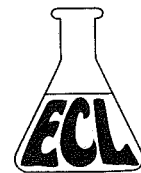
PROJECT NAME: Grn Vily Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3654

LAB#- ECL027163-002      SAMPLE ID- 3991 Farm First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 11/14/2012      TIME SAMPLED- 17:20      SAMPLER- M. Emery  
DATE RECEIVED- 11/15/2012      TIME RECEIVED- 9:09  
DELIVERED BY- C. Brown      RECEIVED BY- SES

Page 2 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 14:12	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	2.0 µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	< 1.0 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3654

LAB#- ECL027163-003      SAMPLE ID- 3991 Farm Flushed  
LOCATION- Total  
DATE SAMPLED- 11/14/2012      TIME SAMPLED- 17:50      SAMPLER- M. Emery  
DATE RECEIVED- 11/15/2012      TIME RECEIVED- 9:09  
DELIVERED BY- C. Brown      RECEIVED BY- SES

Page 3 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	8.2      µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	22.4      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3654

LAB#- ECL027163-004      SAMPLE ID- 3991 Farm Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 11/14/2012      TIME SAMPLED- 17:50      SAMPLER- M. Emery  
DATE RECEIVED- 11/15/2012      TIME RECEIVED- 9:09  
DELIVERED BY- C. Brown      RECEIVED BY- SES

Page 4 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 15:09	SES	0.023 ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	5.8 µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	6.3 µg/L	1.0

  
LABORATORY DIRECTOR

# Sample Chain of Custody

Enviro-Chem Laboratories, Inc.

47 Loveton Circle, Suite K

(Certified) (50g)

Sparks, MD 21152

Client: Chesapeake Geo Sciences, Inc. Phone No.: (410) 790-1911

Project Manager: Sean Daniel Fax No.: (410) 790-3899

Sampler: Matt Emery Email: Sdaniel@egs.us.com

Project Name: GV Ctygo / Manovia BP Project Number: CG-12-0788.03

P.O. Number: CG12078803 SD

ECL Log in Batch Number + (Y/N) (off)

Page 1 of 1

Preservative Key:

- NA = Nitric Acid, pH <2
- SA = Sulfuric Acid, pH <2
- OH = NaOH, pH >12
- TI = Thiou sulfate
- Zn = Zinc Acetate
- N = None, Chilled
- X = Other

Remarks

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	Containers	No. of	Sample Type	Preservative	Explain any "NO" answers
EC027163-001	3991 Farm - First Draw	11/14/12	17:20	DW	3	3	G	Total Lead + EPA Total Chromium 2008 Dissolved Lead + EPA Dissolved Chromium 2008 Hexavalent Chromium EPA 218.7	
EC027163-002									
EC027163-003									
EC027163-004	3991 Farm - Flushed	11/14/12	17:50	DW	3	3	G		

Collected / Relinquished By	Date	Time	Received By	Date	Time	Deliverables Required	# Coolers	Seal
Matt Emery / Matt	11/14/12	7:55	Shane Bradley					
Relinquished By	Date	Time	Received By	Date	Time	Due Date	Ice Present	Temp
Relinquished By	Date	Time	Received By	Date	Time	Turnaround Requested	Rush?	
Relinquished By	Date	Time	Received By	Date	Time	Special Instructions, Comments:		

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3491

LAB#- ECL026972-001      SAMPLE ID- 3993 Farm - First Draw  
LOCATION-                  Total  
DATE SAMPLED- 10/25/2012      TIME SAMPLED- 7:05      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 1 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	1.3      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

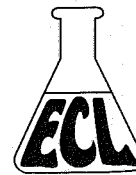
PROJECT NAME: Grn Vlly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3491

LAB#- ECL026972-002      SAMPLE ID- 3993 Farm - First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 10/25/2012      TIME SAMPLED- 7:05      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 2 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 05:55	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3491

LAB#- ECL026972-003      SAMPLE ID- 3993 Farm - Flushed  
LOCATION-      Total  
DATE SAMPLED- 10/25/2012      TIME SAMPLED- 7:40      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 3 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	8.5      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

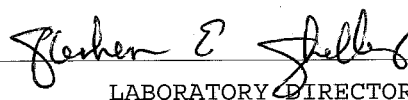
Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3491

LAB#- ECL026972-004      SAMPLE ID- 3993 Farm - Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 10/25/2012      TIME SAMPLED- 7:40      SAMPLER- M. Emery  
DATE RECEIVED- 10/25/2012      TIME RECEIVED- 10:05  
DELIVERED BY- L. Bennett      RECEIVED BY- CHK

Page 4 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 06:14	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	6.1 µg/L	1.0

  
LABORATORY DIRECTOR





# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3651

LAB#- ECL027120-001      SAMPLE ID- 3994 Farm-First Draw  
LOCATION- Total  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 6:05      SAMPLER- L. Bennett  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 11:36  
DELIVERED BY- L. Bennett      RECEIVED BY- JRB

Page 1 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0	µg/L 1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.2	µg/L 1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3651

LAB#- ECL027120-002      SAMPLE ID- 3994 Farm-First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 6:05      SAMPLER- L. Bennett  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 11:36  
DELIVERED BY- L. Bennett      RECEIVED BY- JRB

Page 2 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 01:37	SES	<0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3651

LAB#- ECL027120-003      SAMPLE ID- 3994 Farm-Flushed  
LOCATION- Total  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 6:43      SAMPLER- L. Bennett  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 11:36  
DELIVERED BY- L. Bennett      RECEIVED BY- JRB

Page 3 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3651

LAB#- ECL027120-004      SAMPLE ID- 3994 Farm-Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 6:43      SAMPLER- L. Bennett  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 11:36  
DELIVERED BY- L. Bennett      RECEIVED BY- JRB

Page 4 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 01:56	SES	<0.020	ug/L Cr 0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0	µg/L 1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0	µg/L 1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3651

LAB#- ECL027120-005      SAMPLE ID- 3994 Farm-Flushed DB  
LOCATION-      Total  
DATE SAMPLED- 11/9/2012      TIME SAMPLED-      SAMPLER- L. Bennett  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 11:36  
DELIVERED BY- L. Bennett      RECEIVED BY- JRB

Page 5 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3651

LAB#- ECL027120-006      SAMPLE ID- 3994 Farm-Flushed DB  
LOCATION- Dissolved  
DATE SAMPLED- 11/9/2012      TIME SAMPLED-      SAMPLER- L. Bennett  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 11:36  
DELIVERED BY- L. Bennett      RECEIVED BY- JRB

Page 6 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/12/2014 02:52	SES	< 0.020	ug/L Cr 0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L 1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L 1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3651

LAB#- ECL027120-007      SAMPLE ID- 3992 Farm-First Draw  
LOCATION-      Total  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 7:15      SAMPLER- L. Bennett  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 11:36  
DELIVERED BY- L. Bennett      RECEIVED BY- JRB

Page 7 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.2      µg/L	1.0



# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

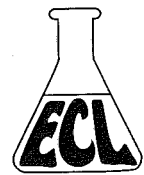
PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3651

LAB#- ECL027120-008      SAMPLE ID- 3992 Farm-First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 7:15      SAMPLER- L. Bennett  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 11:36  
DELIVERED BY- L. Bennett      RECEIVED BY- JRB

Page 8 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/12/2014 03:11	SES	<0.020 ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0 µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

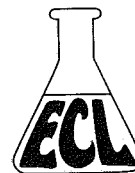
PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3651

LAB#- ECL027120-009      SAMPLE ID- 3992 Farm-Flushed  
LOCATION- Total  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 7:52      SAMPLER- L. Bennett  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 11:36  
DELIVERED BY- L. Bennett      RECEIVED BY- JRB

Page 9 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0      µg/L	1.0

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410-472-1112

## FINAL REPORT OF ANALYSES

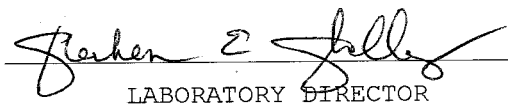
Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 24-Nov-12  
REPORT NUMBER: 3651

LAB#- ECL027120-010      SAMPLE ID- 3992 Farm-Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 11/9/2012      TIME SAMPLED- 7:52      SAMPLER- L. Bennett  
DATE RECEIVED- 11/9/2012      TIME RECEIVED- 11:36  
DELIVERED BY- L. Bennett      RECEIVED BY- JRB

Page 10 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	11/12/2014 03:30	SES	<0.020	ug/L Cr 0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0	µg/L 1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	<1.0	µg/L 1.0

  
LABORATORY DIRECTOR



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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3485

LAB#- ECL026945-001      SAMPLE ID- 3997 Farm-First Draw  
LOCATION- Total  
DATE SAMPLED- 10/23/2012      TIME SAMPLED- 8:00      SAMPLER- L. Bennett  
DATE RECEIVED- 10/23/2012      TIME RECEIVED- 10:20  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 1 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	14.9      µg/L	1.0

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## FINAL REPORT OF ANALYSES

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Columbia, MD 21045-

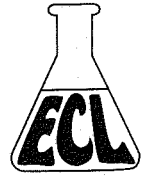
PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3485

LAB#- ECL026945-002      SAMPLE ID- 3997 Farm-First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 10/23/2012      TIME SAMPLED- 8:00      SAMPLER- L. Bennett  
DATE RECEIVED- 10/23/2012      TIME RECEIVED- 10:20  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 2 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 02:52	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	10.8 µg/L	1.0

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## FINAL REPORT OF ANALYSES

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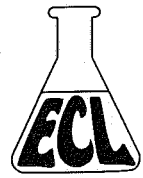
PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3485

LAB#- ECL026945-003      SAMPLE ID- 3997 Farm-Flushed  
LOCATION- Total  
DATE SAMPLED- 10/23/2012      TIME SAMPLED- 8:40      SAMPLER- L. Bennett  
DATE RECEIVED- 10/23/2012      TIME RECEIVED- 10:20  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 3 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	5.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	2.7      µg/L	1.0

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vily Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3485

LAB#- ECL026945-004      SAMPLE ID- 3997 Farm-Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 10/23/2012      TIME SAMPLED- 8:40      SAMPLER- L. Bennett  
DATE RECEIVED- 10/23/2012      TIME RECEIVED- 10:20  
DELIVERED BY- L. Bennett      RECEIVED BY- SES

Page 4 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 04:20	SES	0.152 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	3.8 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	2.5 µg/L	1.0

  
LABORATORY DIRECTOR



# Sample Chain of Custody

Enviro-Chem Laboratories, Inc.

47 Loveton Circle, Suite K

Sparks, MD 21152

Client: **Chesapeake Geosciences, Inc. (CGS)** Phone No.: **410-740-1911**  
 Project Manager: **Sean Daniel** Fax No.: **410-740-3299**  
 Sampler: **Lara Bennett** Email: **Edaniel@gs.us.com**  
 Project Name: **Monrovia BP (FGX) Former Green Valley City** Project Number: **CG-12-0788.03**  
 P.O. Number: **CG120788.03 SD**

ECL Log in Batch Number		Preservative		No. of Containers		Sample Type		C = Comp. G = Grab		Total Lead/Chromium/Hexavalent Chromium/Dissolved Metals/Total Phosphorus		Preservative Key:	
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3	G	X	X	X	X								
3	G	X	X	X	X								

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	Received By	Time	Date	Received By	Time	Date	Received By	Time	Date	Received By	Time	Date	Received By	Time	Date
26945-001 TOTAL	3997 Farm-Draw	10/23/12	08:00	DW	Jane	10:20	10/29/12	At											
26945-002 DIS	3997 Farm-Flushed	10/23/12	08:40	DW															

Deliverables Required	# Coolers	Seal	Ice Present	Temp	Turnaround Requested	Rush?	Special instructions, Comments:

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
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Suite 1  
Columbia, MD 21045-

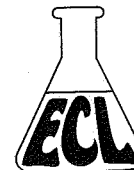
PROJECT NAME: Grn Vily Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3497

LAB#- ECL026987-001      SAMPLE ID- 3998 Rye - First Draw  
LOCATION- Total  
DATE SAMPLED- 10/25/2012      TIME SAMPLED- 15:00      SAMPLER- M. Emery  
DATE RECEIVED- 10/26/2012      TIME RECEIVED- 10:57  
DELIVERED BY- L. Bennett      RECEIVED BY- VPS

Page 1 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	1.8      µg/L	1.0

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3497

LAB#- ECL026987-002      SAMPLE ID- 3998 Rye - First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 10/25/2012      TIME SAMPLED- 15:00      SAMPLER- M. Emery  
DATE RECEIVED- 10/26/2012      TIME RECEIVED- 10:57  
DELIVERED BY- L. Bennett      RECEIVED BY- VPS

Page 2 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 08:45	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3497

LAB#- ECL026987-003      SAMPLE ID- 3998 Rye - Flushed  
LOCATION-      Total  
DATE SAMPLED- 10/25/2012      TIME SAMPLED- 15:35      SAMPLER- M. Emery  
DATE RECEIVED- 10/26/2012      TIME RECEIVED- 10:57  
DELIVERED BY- L. Bennett      RECEIVED BY- VPS

Page 3 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3497

LAB#- ECL026987-004      SAMPLE ID- 3998 Rye - Flushed  
LOCATION- Dissolved  
DATE SAMPLED- 10/25/2012      TIME SAMPLED- 15:35      SAMPLER- M. Emery  
DATE RECEIVED- 10/26/2012      TIME RECEIVED- 10:57  
DELIVERED BY- L. Bennett      RECEIVED BY- VPS

Page 4 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 09:04	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

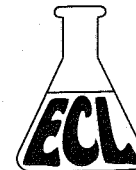
PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3497

LAB#- ECL026987-005      SAMPLE ID- 3998 Rye - Flushed DB  
LOCATION-                  Total  
DATE SAMPLED- 10/25/2012      TIME SAMPLED- 15:35      SAMPLER- M. Emery  
DATE RECEIVED- 10/26/2012      TIME RECEIVED- 10:57  
DELIVERED BY- L. Bennett      RECEIVED BY- VPS

Page 5 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0      µg/L	1.0

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## FINAL REPORT OF ANALYSES

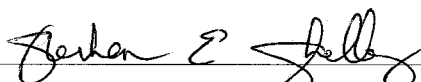
Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 08-Nov-12  
REPORT NUMBER: 3497

LAB#- ECL026987-006      SAMPLE ID- 3998 Rye - Flushed DB  
LOCATION- Dissolved  
DATE SAMPLED- 10/25/2012      TIME SAMPLED- 15:35      SAMPLER- M. Emery  
DATE RECEIVED- 10/26/2012      TIME RECEIVED- 10:57  
DELIVERED BY- L. Bennett      RECEIVED BY- VPS

Page 6 of 6

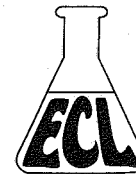
ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 09:23	SES	< 0.020 ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0 µg/L	1.0

  
LABORATORY DIRECTOR





# ENVIRO-CHEM LABORATORIES, INC.



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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Vly Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3415

LAB#- ECL026926-001      SAMPLE ID- 4016 Middleton-First Draw  
LOCATION- Total  
DATE SAMPLED- 10/18/2012      TIME SAMPLED- 16:05      SAMPLER- L. Bennett  
DATE RECEIVED- 10/19/2012      TIME RECEIVED- 9:20  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 1 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	5.5      µg/L	1.0

# ENVIRO-CHEM LABORATORIES, INC.



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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3415

LAB#- ECL026926-002      SAMPLE ID- 4016 Middleton-First Draw  
LOCATION- Dissolved  
DATE SAMPLED- 10/18/2012      TIME SAMPLED- 16:05      SAMPLER- L. Bennett  
DATE RECEIVED- 10/19/2012      TIME RECEIVED- 9:20  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 2 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/20/2012 23:50	SES	0.054 ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	4.8 µg/L	1.0

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## FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.  
5405 Twin Knolls Rd  
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Columbia, MD 21045-

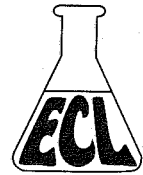
PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3415

LAB#- ECL026926-003      SAMPLE ID- 4016 Middleton-Flush  
LOCATION- Total  
DATE SAMPLED- 10/18/2012      TIME SAMPLED- 16:45      SAMPLER- L. Bennett  
DATE RECEIVED- 10/19/2012      TIME RECEIVED- 9:20  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 3 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0      µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	5.3      µg/L	1.0

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5405 Twin Knolls Rd  
Suite 1  
Columbia, MD 21045-

PROJECT NAME: Grn Villy Citgo  
REPORT DATE: 30-Oct-12  
REPORT NUMBER: 3415

LAB#- ECL026926-004      SAMPLE ID- 4016 Middleton-Flush  
LOCATION- Dissolved  
DATE SAMPLED- 10/18/2012      TIME SAMPLED- 16:45      SAMPLER- L. Bennett  
DATE RECEIVED- 10/19/2012      TIME RECEIVED- 9:20  
DELIVERED BY- M. Emery      RECEIVED BY- VPS

Page 4 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DETECTION LIMIT
Chromate	EPA 218.7	10/21/2012 00:47	SES	0.028 ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0 µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	5.9 µg/L	1.0

  
LABORATORY DIRECTOR

