Con 12-1-1
Doc # 81570

VALERO
renewables

October 22, 2014

71-SDP-03-11

Ms. Amy Buckendahl
Environmental Specialist
Iowa Department of Natural Resources
Wallace State Office Building
502 E. 9th Street,
Des Moines, IA 50319

RE: Land Disposal Notification
Valero Renewal Fuels Company, LLC
Charles City, Iowa

Dear Ms. Buckendahl:

Valero Renewable Fuels Company LLC (Valero) submits this letter in regard to the planned land disposal of biomass from a reactor associated with process water treatment at Valero's Charles City, Iowa ethanol manufacturing facility. The disposal will be performed under Rule 567—121.6 (455B) Permit Exemptions, Iowa Administrative Code (IAC) Chapter 121, Land Application of Wastes. This notification is prepared in accordance with Paragraph 121.6(1)m Notification.

Background

Valero in past history utilized an anaerobic digester system to polish its recycled process water. This process has been discontinued for various reasons. Due to the discontinuation of this process, the plant needs to dispose of the "bugs" from the digester tanks.

Location and Landowner
The Valero facility is located in T96N, R16W, NE ¼ of the NW ¼ of Section 33 and the planned disposal areas are located in the illustrated property plot (see Figure 1). The land disposal areas (outlined in Orange on Figure 1) approximate about 0.5 acre that currently support Brome Grass. Valero is the landowner of the planned disposal area. Although the land is leased to another entity who conducts farming, the land disposal application will not impinge on the farm crop. Valero will share all information as to IDNR regulation governing land application of waste, waste analysis, and application limits with this 3rd party prior to application of waste.

Responsible Official
The responsible official for Valero is Mr. Scott Melliere, Manager of Health, Safety, and Environmental. Mr. Melliere's contact information is:

1787 Quarry Road
Charles City, IA 50616
Phone: 641-715-3015

Quantities and Types of Waste
The material to be disposed is biomass that remains within a reactor due to the fact that the anaerobic digesters are no longer being used. The total quantity of biomass to be disposed is estimated to be 1/3 ton of dry weight. The biomass will be incorporated into the disposal areas at a rate of 2/3 (0.67) ton per

acre. The material will be incorporated into upper topsoil levels. The size of the proposed disposal area is approximately 0.5 acre. There is sufficient land area to apply the sediment. Chemical analysis of a sediment sample from the reactor was performed, with the laboratory analysis results report attached. All metals tested were under the threshold values presented in Paragraph 567-121.6(1)b and are illustrated in Table 1. The calculated nutrient loading (Table 2) is below the estimated annual nutrient uptake by the Brome Grass. This disposal project is scheduled to be implemented in the second half of October 2014.

If you have any questions, please contact Mr. Melliere at 641-715-3015.

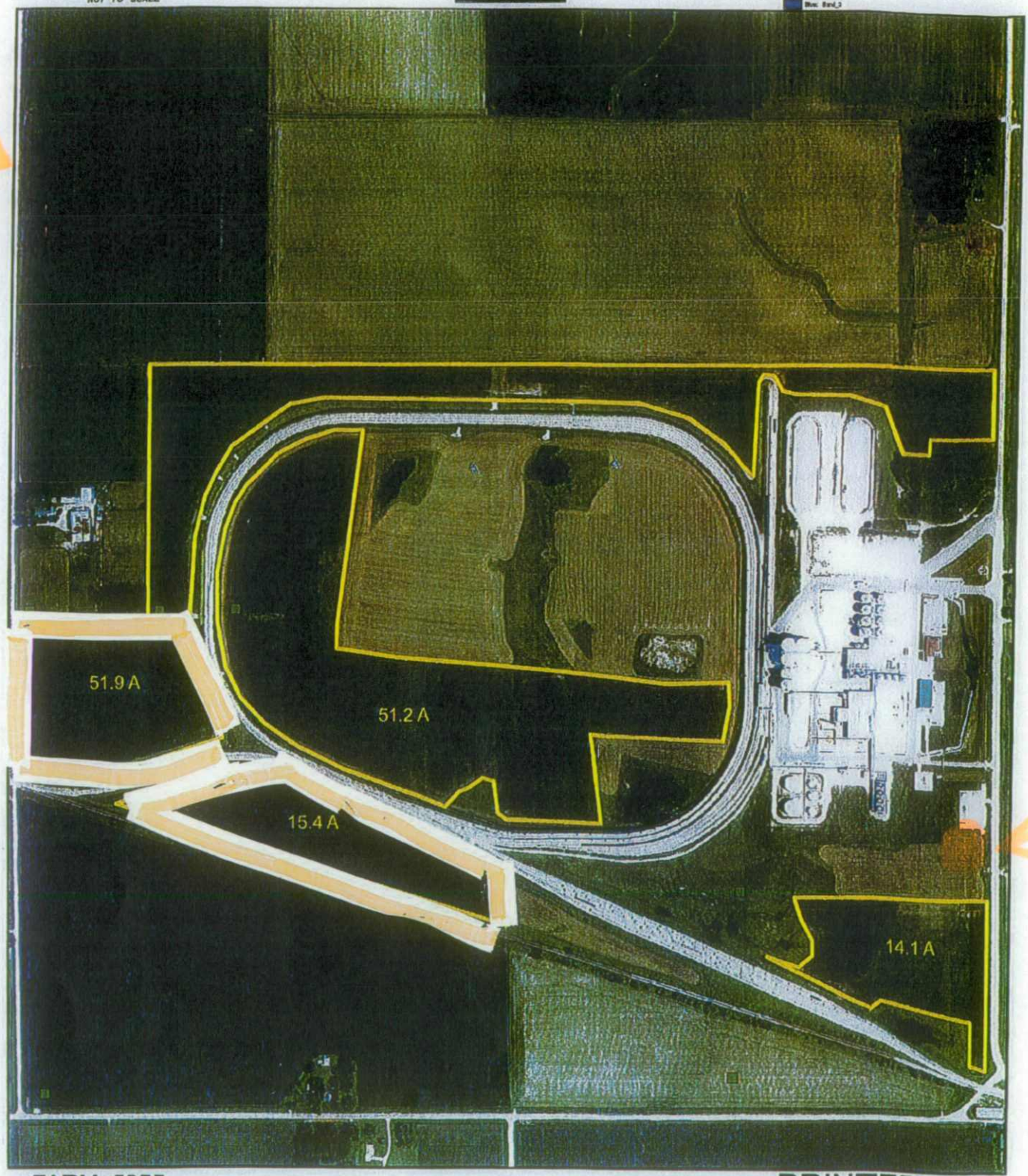
Sincerely,

Frank Blaine
Plant Manager
Valero Renewable Fuels Co, LLC
Charles City, Iowa Plant

Figure 1

USDA

NOT TO SCALE



Biomass Land Apply Areas Proposed (in Orange boundary)

FARM: 5855
TRACT: 2567, 8652 & 10957
SECTION: 28, 29, 32 & 33-96-16
TWP: FLOYD

0 355 710 1,420 Feet

1 inch equals 708.333333 feet

PRINTED
September 12, 2011
by Floyd County FSA

CROP YEAR 2011

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

TABLE 1
BIOMASS SAMPLE AND STANDARDS

Constituent	Concentration (mg/kg)		Loading Rate (kg/ha)	
	Regulatory Limit[b]	Sample Result	Regulatory Limit[b]	Calculated Value[a]
Arsenic	41	<11.59	41	0.017
Cadmium	39	<2.90	39	<0.0044
Chromium	1,200	13.46	3,000	0.020
Copper	1,500	19.82	1,500	0.030
Lead	300	<14.49	300	<0.022
Mercury	17	<0.165	17	<0.0002
Molybdenum	75	<12.67	75	<0.019
Nickel	420	<19.47	420	<0.029
Selenium	36	<21.75	100	<0.033
Zinc	2,800	908.5	2,800	1.365

Notes: [a] Loading Rate Calculated Value based on maximum application rate of 2/3 (0.67) ton sediment per acre.

[b] Limit established in 567 – 121.6(1)b, Iowa Administrative Code.

mg/kg = Milligrams of metal per kilogram of soil (dry weight).

kg/ha = Kilograms of metal per hectare.

TABLE 2
NUTRIENT UPTAKE BY BROME GRASS AND PROJECTED LOADING RATES

	Sediment Sample Results (mg/kg)	Calculated Loading Rate[a] (pounds per acre)	Uptake[b] (pounds per acre)
Nitrogen	74,350	148.7	187
Phosphorus	15,077	30.2 *	21
Potassium	20,525	41.1	255

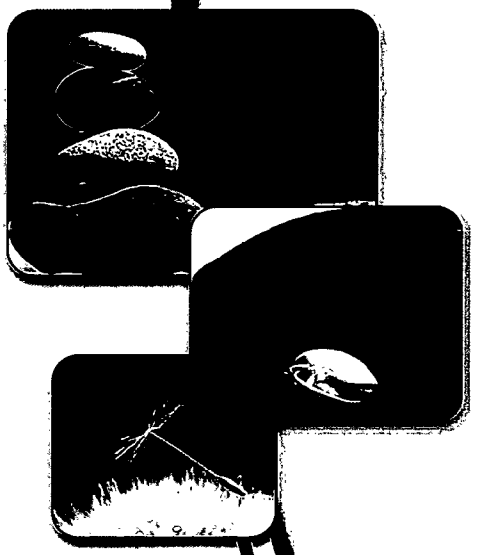
Notes: [a] Calculated assuming a max. land application rate of 1 ton per acre (dry weight).

* Loading Rate of 2/3 (0.67) ton per acre will reduce the Phosphorus Loading Rate to 20.1 pounds per acre, which will keep that constituent less-than the Uptake Phosphorus Limit of 21 pounds per acre.

[b] Source United States Environmental Protection Agency. Process Design Manual, Land Treatment of Municipal Wastewater Effluents. EPA/625-R-06/016. September 2006.

mg/kg = Milligrams per kilogram

Methanator Sludge Solid Loading				
Height of tank (ft)	**52**		Height of tank (in)	**624**
Volume (gal)	**30,000**		Height remaining (in)	**11**
Volume remaining per tank (gal)	**529**		% Remaining	**1.8%**
Total amount remaining (gal)	**2115**		Acres covered:	**0.54**
Density (lbs/gal)	**8.32**			
Total mass (lbs)	**17600**			
Total mass (tons)	**8.8**			
% Solids	**4.07%**			
Solids mass (lbs)	**716.32**			
Solids mass (tons)	**0.35816**			



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-6579-1
Client Project/Site: Methanator Sludge

For:
Valero Energy Corporation
1787 Quarry Rd
Charles City, Iowa 50616

Attn: Jan Adams

Authorized for release by:
5/2/2013 10:32:52 AM

Shirley Thompson
Project Manager I
shirley.thompson@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 310-6579-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-6579-1

Comments
No additional comments.

Receipt
The samples were received on 4/24/2013 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4° C.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method(s) 6010B: Due to the high concentrations, the matrix spike / matrix spike duplicate (MS/MSD) for batch 11765 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. TS-10504 (310-6579-1)

Method(s) 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 11784 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. TS-10504 (310-6579-1)

No other analytical or quality issues were noted.

General Chemistry
Method(s) 365.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 11770 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. TS-10504 (310-6579-1)

No other analytical or quality issues were noted.

Sample Summary

Client: Valero Energy Corporation
Project/Site: Methanator Sludge

TestAmerica Job ID: 310-6579-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-6579-1	TS-10504	Waste	04/22/13 13:00	04/24/13 09:10
310-6579-2	TS-10506	Waste	04/22/13 13:00	04/24/13 09:10
310-6579-3	TS-10505	Waste	04/22/13 13:00	04/24/13 09:10
310-6579-4	TS-10507	Waste	04/22/13 13:00	04/24/13 09:10

Client Sample ID: TS-10504
Date Collected: 04/22/13 13:00
Date Received: 04/24/13 09:10

Lab Sample ID: 310-6579-1
Matrix: Waste
Percent Solids: 2.5

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Ethanol	<549		549		mg/Kg	☼	PML	04/30/13 10:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Arsenic	<10.6		10.6		mg/Kg	☼	OAD	04/30/13 21:53	1
Cadmium	<2.66		2.66		mg/Kg	☼	OAD	04/30/13 21:53	1
Chromium	**18.9**		2.66		mg/Kg	☼	OAD	04/30/13 21:53	1
Copper	**30.1**		2.66		mg/Kg	☼	OAD	04/30/13 21:53	1
Lead	<13.3		13.3		mg/Kg	☼	OAD	04/30/13 21:53	1
Molybdenum	**15.6**		6.64		mg/Kg	☼	OAD	04/30/13 21:53	1
Nickel	**25.9**		6.64		mg/Kg	☼	OAD	04/30/13 21:53	1
Potassium	**20400**		133		mg/Kg	☼	OAD	04/30/13 21:53	1
Selenium	<19.9		19.9		mg/Kg	☼	OAD	04/30/13 21:53	1
Zinc	**1310**		2.66		mg/Kg	☼	OAD	04/30/13 21:53	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Mercury	<0.150		0.150		mg/Kg	☼	MRH	05/01/13 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrogen, Kjeldahl	**140000**		6500		mg/Kg	☼	JCF	05/01/13 14:44	1
Total Phosphorus as P	**16700**		1290		mg/Kg	☼	LBB	05/01/13 10:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrogen, Total	**5600000**		200		mg/Kg	☼	LBB	04/25/13 10:02	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrate as N	<159		159		mg/Kg	☼	JMH	04/24/13 22:01	1
Nitrite as N	<199		199		mg/Kg	☼	EEE	04/29/13 22:35	1

Client Sample ID: TS-10506
Date Collected: 04/22/13 13:00
Date Received: 04/24/13 09:10

Lab Sample ID: 310-6579-2
Matrix: Waste
Percent Solids: 4.2

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Ethanol	<351		351		mg/Kg	☼	PML	04/30/13 10:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Arsenic	<6.38		6.38		mg/Kg	☼	OAD	04/30/13 22:17	1
Cadmium	<1.60		1.60		mg/Kg	☼	OAD	04/30/13 22:17	1
Chromium	**18.9**		1.60		mg/Kg	☼	OAD	04/30/13 22:17	1
Copper	**25.0**		1.60		mg/Kg	☼	OAD	04/30/13 22:17	1
Lead	<7.98		7.98		mg/Kg	☼	OAD	04/30/13 22:17	1
Molybdenum	**15.3**		3.99		mg/Kg	☼	OAD	04/30/13 22:17	1
Nickel	**27.6**		3.99		mg/Kg	☼	OAD	04/30/13 22:17	1
Potassium	**14500**		79.8		mg/Kg	☼	OAD	04/30/13 22:17	1

Client Sample ID: TS-10506
Date Collected: 04/22/13 13:00
Date Received: 04/24/13 09:10

Lab Sample ID: 310-6579-2
Matrix: Waste
Percent Solids: 4.2

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Selenium	<12.0		12.0		mg/Kg	☼	OAD	04/30/13 22:17	1
Zinc	**1100**		1.60		mg/Kg	☼	OAD	04/30/13 22:17	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Mercury	<0.0965		0.0965		mg/Kg	☼	MRH	05/01/13 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrogen, Kjeldahl	**45200**		5510		mg/Kg	☼	JCF	05/01/13 14:45	1
Total Phosphorus as P	**7710**		1140		mg/Kg	☼	LBB	05/01/13 10:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrogen, Total	**1080000**		120		mg/Kg	☼	LBB	04/25/13 10:02	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrate as N	<94.1		94.1		mg/Kg	☼	JMH	04/24/13 22:02	1
Nitrite as N	<116		116		mg/Kg	☼	EEE	04/29/13 22:35	1

Client Sample ID: TS-10505
Date Collected: 04/22/13 13:00
Date Received: 04/24/13 09:10

Lab Sample ID: 310-6579-3
Matrix: Waste
Percent Solids: 1.2

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Ethanol	<1220		1220		mg/Kg	☼	PML	04/30/13 10:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Arsenic	<23.0		23.0		mg/Kg	☼	OAD	04/30/13 22:19	1
Cadmium	<5.74		5.74		mg/Kg	☼	OAD	04/30/13 22:19	1
Chromium	**8.95**		5.74		mg/Kg	☼	OAD	04/30/13 22:19	1
Copper	**15.9**		5.74		mg/Kg	☼	OAD	04/30/13 22:19	1
Lead	<28.7		28.7		mg/Kg	☼	OAD	04/30/13 22:19	1
Molybdenum	<14.4		14.4		mg/Kg	☼	OAD	04/30/13 22:19	1
Nickel	<14.4		14.4		mg/Kg	☼	OAD	04/30/13 22:19	1
Potassium	**35800**		287		mg/Kg	☼	OAD	04/30/13 22:19	1
Selenium	<43.1		43.1		mg/Kg	☼	OAD	04/30/13 22:19	1
Zinc	**826**		5.74		mg/Kg	☼	OAD	04/30/13 22:19	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Mercury	<0.318		0.318		mg/Kg	☼	MRH	05/01/13 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrogen, Kjeldahl	**80400**		17800		mg/Kg	☼	JCF	05/01/13 14:46	1
Total Phosphorus as P	**24300**		1230		mg/Kg	☼	LBB	05/01/13 10:12	1

Client Sample ID: TS-10505

Date Collected: 04/22/13 13:00
Date Received: 04/24/13 09:10

Lab Sample ID: 310-6579-3
Matrix: Waste
Percent Solids: 1.2

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrogen, Total	**6950000**		432		mg/Kg	☼	LBB	04/25/13 10:05	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrate as N	<344		344		mg/Kg	☼	JMH	04/24/13 22:03	1
Nitrite as N	<429		429		mg/Kg	☼	EEE	04/29/13 22:35	1

Client Sample ID: TS-10507

Date Collected: 04/22/13 13:00
Date Received: 04/24/13 09:10

Lab Sample ID: 310-6579-4
Matrix: Waste
Percent Solids: 4.2

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Ethanol	<331		331		mg/Kg	☼	PML	04/30/13 10:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Arsenic	<6.37		6.37		mg/Kg	☼	OAD	04/30/13 22:21	1
Cadmium	<1.59		1.59		mg/Kg	☼	OAD	04/30/13 22:21	1
Chromium	**7.09**		1.59		mg/Kg	☼	OAD	04/30/13 22:21	1
Copper	**8.28**		1.59		mg/Kg	☼	OAD	04/30/13 22:21	1
Lead	<7.97		7.97		mg/Kg	☼	OAD	04/30/13 22:21	1
Molybdenum	**5.37**		3.98		mg/Kg	☼	OAD	04/30/13 22:21	1
Nickel	**9.99**		3.98		mg/Kg	☼	OAD	04/30/13 22:21	1
Potassium	**11400**		79.7		mg/Kg	☼	OAD	04/30/13 22:21	1
Selenium	<12.0		12.0		mg/Kg	☼	OAD	04/30/13 22:21	1
Zinc	**398**		1.59		mg/Kg	☼	OAD	04/30/13 22:21	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Mercury	<0.0961		0.0961		mg/Kg	☼	MRH	05/01/13 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrogen, Kjeldahl	**31800**		4500		mg/Kg	☼	JCF	05/01/13 14:47	1
Total Phosphorus as P	**11600**		776		mg/Kg	☼	LBB	05/01/13 10:13	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrogen, Total	**765000**		120		mg/Kg	☼	LBB	04/25/13 10:05	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Nitrate as N	<95.6		95.6		mg/Kg	☼	JMH	04/24/13 22:04	1
Nitrite as N	<118		118		mg/Kg	☼	EEE	04/30/13 22:48	1

Certification and Definitions Summary

Client: Valero Energy Corporation
Project/Site: Methanator Sludge

TestAmerica Job ID: 310-6579-1

Laboratory: TestAmerica Cedar Falls

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA	IHLAP		101044	11-01-14
Illinois	NELAP	5	200024	11-29-13
Iowa	State Program	7	7	12-01-13
Kansas	NELAP	7	E-10341	01-31-14
Minnesota	NELAP	5	019-999-319	12-31-13
North Dakota	State Program	8	R-186	09-29-13
Oregon	NELAP	10	IA100001	09-29-13
Wisconsin	State Program	5	999917270	08-31-13

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Valero Energy Corporation
Project/Site: Methanator Sludge

TestAmerica Job ID: 310-6579-1

Method	Method Description	Protocol	Laboratory
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	TAL CF
6010B	Metals (ICP)	SW846	TAL CF
7471A	Mercury (CVAA)	SW846	TAL CF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL CF
365.1	Phosphorus, Total	EPA	TAL CF
9210A	Nitrogen, Nitrate	SW846	TAL CF
Moisture	Percent Moisture	EPA	TAL CF
SM 4500 NO2 B	Nitrogen, Nitrite	SM	TAL CF
Total Nitrogen	Nitrogen, Total	EPA	TAL CF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

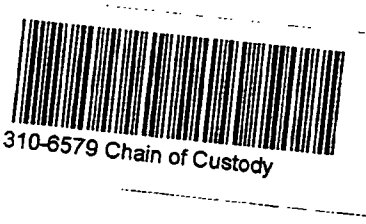
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive · Cedar Falls, IA 50613
Tel 319-277-2401 · Fax 319-277-2425

TestAmerica Sample Receipt ar Cedar Falls Facility



Client: Valero Project: _____

City: Charles City State: _____

Date: 4-24-13 Receiver's Initials: CH Time (Delivered): 9:10

Temperature Record:

Cooler ID# (If Applicable): in box

Uncorrected Temp: 5.4 °C

Corrected Temp: 5.4 °C

Thermometer:

- [ ] IR - 111531565 "D"
- [x] IR - 111531506 "E"
- [ ] IR - 61854108 "Front"
- [ ] 111655718 - Probe

Courier:

- [x] UPS
- [ ] FedEx
- [ ] FedEx Ground
- [ ] US Postal Service
- [ ] Spee-Dee
- [ ] TA Courier
- [ ] TA Field Services
- [ ] Client
- [ ] Other: _____

Exceptions Noted:

- [ ] Temperature blank
- [ ] Temperature out of compliance

10504 sample

- [x] Sample(s) not received in cooler
- [ ] Sample(s) received same day of sampling
  - [ ] Evidence of chilling process
- [ ] Temp blank <0°C, samples NOT FROZEN
- [ ] Temp blank <0°C, samples FROZEN
- [ ] Temperature not taken: *(indicate reason)* _____
- [ ] Non-Conformance Report Started

Coolant Record:

- [x] Received on ice
  - [x] Wet ice
  - [ ] Blue ice
  - [ ] Dry ice
  - [ ] Other: _____
- [ ] NONE

Custody Seals:

Cooler Custody Seals Present? [ ] Yes [x] No

Cooler Custody Seals Intact? [ ] Yes [ ] No [x] N/A

Sample Custody Seals Present? [ ] Yes [x] No

Sample Custody Seals Intact? [ ] Yes [ ] No [x] N/A

TestAmerica Cedar Falls
704 Enterprise Drive

Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jan Adams	Site Contact: Jan Adams	Date: 23-April-2013	COC No:
VALERO CHARLES CITY	Tel/Fax: 641-715-3031	Lab Contact: Same as above	Carrier:	____ of ____ COCs
1787 QUARRY ROAD	Analysis Turnaround Time			For Lab Use Only:
CHARLES CITY , IA 50616	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
641-715-3031	TAT if different from Below ______			Lab Sampling:
641-715-3051	☐ 2 weeks			
Project Name: Methanator Sludge	☐ 1 week			Job / SDG No.:
Site: Valero Charles City	☐ 2 days			
PO# 4502598803	☐ 1 day			Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	ETHANOL	METALS (As, Cd, Cr, Cu, Pb, Mo, Ni, K, Se, Zn)	MERCURY	TOTAL N	TOTAL P	Sample Specific Notes:
Methanator sludge TS-10504	4/22/13	1PM	G	Methanator biomass	1	N		X	X	X	X	X	
Methanator sludge TS-10506	4/22/13	1PM	G	Methanator biomass	1	N		X	X	X	X	X	
Methanator sludge TS-10505	4/22/13	1PM	G	Methanator biomass	1	N		X	X	X	X	X	
Methanator sludge TS-10507	4/22/13	1PM	G	Methanator biomass	1	N		X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ______ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ______ Corr'd: ______ | Therm ID No.: ______

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Valerie Buttfar	Valero Charles City	4-23-13 1pm	[signature]	TAC F	4/24/13 9:10
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.1, dated 02/20/2013

5/2/2013