de maximis, inc.

1550 Pond Road
Suite 120
Allentown, PA 18104
(610) 435-1151
(610) 435-8459 FAX

May 2, 2017

Via U.S. Mail

Mr. Dustin Armstrong
PADEP
2 East Main Street
Norristown, PA 19401

RE: Boarhead Farms Superfund Site OU-1
EPA Docket No. III-2000-01-DC
1st Quarter 2017 Effluent Discharge Monitoring Report
Groundwater Collection and Treatment System

Dear Mr. Armstrong:

Enclosed please find the completed Discharge Monitoring Report (DMR) forms for the 1st Quarter 2017 effluent samples from the groundwater treatment plant at the Boarhead Farms Site (Site). These DMR forms are being submitted on behalf of the Respondents in the above referenced EPA docket, and other companies contributing to the funding of the OU-1 remedy. The DMRs are submitted based on PADEP's December 29, 2000 revised Permit with the exception of collecting a 24-hour composite sample for inorganic constituents. In a letter dated March 28, 2001, EPA recommended that the sampling frequency be changed to a composite sample over an 8-hour period.

I would like to call to your attention the following, relative to these DMRs for the 1st Quarter 2017:

- VOCs were not detected above permit levels.
- 5 of the 6 constituents designated "Monitor and Report" were not detected in the effluent.

Please contact Geoff Seibel or me with any questions at (610) 435-1151.

Sincerely,

de maximis, inc.

R. Craig Coslett
Project Coordinator for OU 1

Enclosures: DMR Forms for 1st Quarter 2017
Test America Analytical Reports

CC: Chris Sklaney, USEPA
Boarhead Farms OU1 Performing Parties
Peter Randazzo, Brown and Caldwell
D. Jelinek, GES

File: 4087 /dmr 1st QDMR 2017

PAPER

Groundwater & Environmental Services, Inc.

EASTERN PENNSYLVANIA OFFICE

April 19, 2017

R. Craig Coslett
Project Coordinator for OU-1
de maximis, Inc.
1550 Pond Road, Suite 120
Allentown, PA 18104

Re: Boarhead Farms Superfund Site OU-1
EPA Docket No. III-2000-01-DC
1st Quarter 2017 Effluent Discharge Monitoring Report
Groundwater Collection and Treatment System

Dear Mr. Coslett:

Groundwater & Environmental Services, Inc. (GES) is pleased to submit the completed Discharge Monitoring Report (DMR) for the 1st quarter 2017 effluent samples collected from the groundwater treatment system at the Boarhead Farms Site (Site) on March 13, 2017. The analytical results of the effluent samples indicate the groundwater treatment system is in compliance with the National Pollutant Discharge Elimination System (NPDES) discharge requirements. A summary of the effluent system sampling results is included in the DMR forms provided as **Attachment A**, while the laboratory analytical results and chain-of-custody documentation is included in **Attachment B**.

The 1st quarter 2017 DMR is being submitted based on the Pennsylvania Department of Environmental Protection's (PADEP) December 29, 2000 revised permit with the exception of collecting a 24-hour composite sample from the groundwater treatment system effluent for inorganic constituents. In a letter dated March 28, 2001, the Environmental Protection Agency (EPA) recommended that the duration of the composite sample should occur over an 8-hour period.

Please contact either of the undersigned at 800-426-9871 if you have any questions regarding the enclosed DMR.

Respectfully Submitted,

Groundwater & Environmental Services, Inc.

Evan Anthony
Associate Remediation Specialist

Derek Jelinek
Engineering Manager
Senior Project Manager

Attachments

cc: Rachel Maddaluna (de maximis)
GES Project File

ATTACHMENT A – 1st QUARTER 2017 DISCHARGE MONITORING REPORT

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Boarhead Farms c/o de maximis, inc.

ADDRESS 1550 Pond Rd, Suite 120
Allentown, PA 18104

FACILITY LOCATION Groundwater Treatment System
1310 Lonely Cottage Rd 18972

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
PAXXXX	001

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	17	01	01	TO	17	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW (MGD)	SAMPLE MEASUREMENT	0.012536	0.026314	MGD	XXXX	XXXX	XXXX	XXXX		CONT	REC
	PERMIT REQUIREMENT	MONITOR	MONITOR		XXXX	XXXX	XXXX			CONT	REC
ANTIMONY	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0077	<0.0077	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.015	0.031			1/QTR	8 HC
ARSENIC	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0097	<0.0097	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	MONITOR/ REPORT	MONITOR/ REPORT			1/QTR	8 HC
CADMIUM	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.00049	<0.00049	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.0042	0.0084			1/QTR	8 HC
CHROMIUM HEXAVALENT	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0010	<0.0010	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.011	0.023			1/QTR	8 HC
COPPER	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0041	<0.0041	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.016	0.033			1/QTR	8 HC
LEAD	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0062	<0.0062	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.007	0.014			1/QTR	8 HC

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
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ADDRESS 1550 Pond Rd, Suite 120
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1310 Lonely Cottage Rd 18972

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
PAXXXX	001

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NICKEL	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	0.0053	0.0053	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.09	0.18			1/QTR	8 HC
ZINC	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0054	<0.0054	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.157	0.315			1/QTR	8 HC
MANGENESE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	0.123	0.123	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	1.12	2.24			1/QTR	8 HC
ALUMINUM	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0868	<0.0868	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.623	1.25			1/QTR	8 HC
COBALT	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	0.0020	0.0020	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.021	0.043			1/QTR	8 HC
IRON/TOTAL	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0747	<0.0747	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	1.68	3.36			1/QTR	8 HC
MERCURY	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.000050	<0.000050	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	ND	ND			1/QTR	8 HC

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SILVER	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0019	<0.0019	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.008	0.017			1/QTR	8 HC
CYANIDE, FREE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0040	<0.0040	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.005	0.011			1/QTR	8 HC
2,4,6-TRICHLOROPHENOL	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0007	<0.0007	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.0038	0.0076			1/QTR	GRAB
BENZENE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0001	<0.0001	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.0022	0.004			1/QTR	GRAB
1,2-DICHLOROETHANE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0001	<0.0001	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.0007	0.0014			1/QTR	GRAB
1,1-DICHLOROETHYLENE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0001	<0.0001	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	ND	0.0002			1/QTR	GRAB
METHYLENE CHLORIDE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0002	<0.0002	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.0086	0.017			1/QTR	GRAB

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TETRACHLOROETHYLENE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0001	<0.0001	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.0015	0.003			1/QTR	GRAB
TOLUENE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0001	<0.0001	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.0023	0.0046			1/QTR	GRAB
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0001	<0.0001	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.017	0.034			1/QTR	GRAB
TRICHLOROETHYLENE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0001	<0.0001	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.005	0.01			1/QTR	GRAB
VINYL CHLORIDE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0001	<0.0001	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	0.0036	0.0072			1/QTR	GRAB
ACETONE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0030	<0.0030	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	MONITOR/ REPORT	MONITOR/ REPORT			1/QTR	GRAB
XYLENES, TOTAL	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0001	<0.0001	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	MONITOR/ REPORT	MONITOR/ REPORT			1/QTR	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
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1,2-DICHLOROBENZENE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0001	<0.0001	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	MONITOR/ REPORT	MONITOR/ REPORT			1/QTR	GRAB
NAPHTHALENE	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	<0.0002	<0.0002	MG/L		1/QTR	GRAB
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	MONITOR/ REPORT	MONITOR/ REPORT			1/QTR	GRAB
CHROMIUM, TRIVALENT	SAMPLE MEASUREMENT	XXXX	XXXX	XXXX	XXXX	0.0026	0.0026	MG/L		1/QTR	8 HC
	PERMIT REQUIREMENT	XXXX	XXXX		XXXX	MONITOR/ REPORT	MONITOR/ REPORT			1/QTR	8 HC
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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TELEPHONE		DATE		
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ATTACHMENT B – LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION

eurofins | Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

Report Date: March 27, 2017

Project: Boarhead Farms

Submittal Date: 03/13/2017
Group Number: 1776036
PO Number: 0204215-40-001
Release Number: ORG # 1402
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LL) #
Effluent Composite Groundwater	8880862
Effluent Grab Groundwater	8880863
Midfluent Grab Groundwater	8880864
Influent Grab Groundwater	8880865
Trip Blank Water	8880866

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To	GES, Inc.-PA	Attn: Derek Jelinek
Electronic Copy To	GES Inc.	Attn: Data Distribution

Respectfully Submitted,

Lynn M. Frederiksen

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

eurofins | Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Effluent Composite Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880862
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 10:10 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		**EPA 200.7 rev 4.4**	mg/l	mg/l	
01743	Aluminum	7429-90-5	N.D.	0.0868	1
07044	Antimony	7440-36-0	N.D.	0.0077	1
07035	Arsenic	7440-38-2	N.D.	0.0097	1
07049	Cadmium	7440-43-9	N.D.	0.00049	1
07052	Cobalt	7440-48-4	0.0020 J Q8	0.0019	1
07053	Copper	7440-50-8	N.D.	0.0041	1
01754	Iron	7439-89-6	N.D.	0.0747	1
07055	Lead	7439-92-1	N.D.	0.0062	1
07058	Manganese	7439-96-5	0.123 Q8	0.0018	1
07061	Nickel	7440-02-0	0.0053 J Q8	0.0028	1
07066	Silver	7440-22-4	N.D.	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0054	1
		EPA 245.1 rev 3	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry		**SM 4500-CN E-1999**	mg/l	mg/l	
00241	Cyanide (Free)	n.a.	N.D.	0.0040	1
		SM 3500-Cr B-2009	mg/l	mg/l	
01446	Hexavalent Chromium	18540-29-9	N.D.	0.0010	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/18.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:01	Matthew R Machtinger	1
07044	Antimony	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:01	Matthew R Machtinger	1
07035	Arsenic	EPA 200.7 rev 4.4	1	170805716005	03/27/2017 01:22	Matthew R Machtinger	1
07049	Cadmium	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:01	Matthew R Machtinger	1
07052	Cobalt	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:01	Matthew R Machtinger	1
07053	Copper	EPA 200.7 rev 4.4	1	170805716005	03/27/2017 01:22	Matthew R Machtinger	1

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Analysis Report

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Sample Description: Effluent Composite Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880862
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 10:10 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01754	Iron	EPA 200.7 rev 4.4	1	170805716005	03/25/2017	03:01	Matthew R Machtinger	1
07055	Lead	EPA 200.7 rev 4.4	1	170805716005	03/25/2017	03:01	Matthew R Machtinger	1
07058	Manganese	EPA 200.7 rev 4.4	1	170805716005	03/25/2017	03:01	Matthew R Machtinger	1
07061	Nickel	EPA 200.7 rev 4.4	1	170805716005	03/25/2017	03:01	Matthew R Machtinger	1
07066	Silver	EPA 200.7 rev 4.4	1	170805716005	03/25/2017	03:01	Matthew R Machtinger	1
07072	Zinc	EPA 200.7 rev 4.4	1	170805716005	03/25/2017	03:01	Matthew R Machtinger	1
00259	Mercury	EPA 245.1 rev 3	1	170805714002	03/22/2017	10:13	Damary Valentin	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	170805716005	03/22/2017	04:10	Lisa J Cooke	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	170805714002	03/22/2017	06:10	Lisa J Cooke	1
00241	Cyanide (Free)	SM 4500-CN E-1999	1	17081114101A	03/22/2017	07:15	Dein K Bernot	1
01446	Hexavalent Chromium	SM 3500-Cr B-2009	1	17072144601A	03/13/2017	21:39	Hannah M Royer	1

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Analysis Report

Sample Description: Effluent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880863
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:45 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B 25mL purge		ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	2-Butanone	78-93-3	N.D.	1.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	N.D.	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	Cyclohexane	110-82-7	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	1,4-Dioxane	123-91-1	N.D.	20	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Freon 113	76-13-1	N.D.	0.2	1
02898	2-Hexanone	591-78-6	N.D.	1.0	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	Methyl Acetate	79-20-9	N.D.	0.3	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.	1.0	1
02898	Methylcyclohexane	108-87-2	N.D.	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1

Sample Description: Effluent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880863
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:45 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	m+p-Xylene	179601-23-1	N.D.	0.1	1
02898	o-Xylene	95-47-6	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC/MS Semivolatiles	**EPA 625**		ug/l	ug/l	
10334	Acenaphthene	83-32-9	N.D.	0.3	1
10334	Acenaphthylene	208-96-8	N.D.	0.3	1
10334	Anthracene	120-12-7	N.D.	0.2	1
10334	Benzo(a)anthracene	56-55-3	N.D.	0.2	1
10334	Benzo(a)pyrene	50-32-8	N.D.	0.3	1
10334	Benzo(b)fluoranthene	205-99-2	N.D.	0.3	1
10334	Benzo(g,h,i)perylene	191-24-2	N.D.	0.2	1
10334	Benzo(k)fluoranthene	207-08-9	N.D.	0.3	1
10334	4-Bromophenyl-phenylether	101-55-3	N.D.	0.3	1
10334	Butylbenzylphthalate	85-68-7	N.D.	0.8	1
10334	Di-n-butylphthalate	84-74-2	N.D.	0.5	1
10334	Carbazole	86-74-8	N.D.	0.2	1
10334	4-Chloro-3-methylphenol	59-50-7	N.D.	0.3	1
10334	4-Chloroaniline	106-47-8	N.D.	0.3	1
10334	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
10334	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.4	1
10334	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.3	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10334	2-Chloronaphthalene	91-58-7	N.D.	0.2	1
10334	2-Chlorophenol	95-57-8	N.D.	0.3	1
10334	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.3	1
10334	Chrysene	218-01-9	N.D.	0.2	1
10334	Dibenz(a,h)anthracene	53-70-3	N.D.	0.4	1
10334	Dibenzofuran	132-64-9	N.D.	0.2	1
10334	1,2-Dichlorobenzene	95-50-1	N.D.	0.3	1
10334	1,3-Dichlorobenzene	541-73-1	N.D.	0.3	1
10334	1,4-Dichlorobenzene	106-46-7	N.D.	0.3	1
10334	3,3'-Dichlorobenzidine	91-94-1	N.D.	0.8	1
10334	2,4-Dichlorophenol	120-83-2	N.D.	0.3	1
10334	Diethylphthalate	84-66-2	N.D.	0.3	1
10334	2,4-Dimethylphenol	105-67-9	N.D.	0.3	1
10334	Dimethylphthalate	131-11-3	N.D.	1	1
10334	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	4	1
10334	2,4-Dinitrophenol	51-28-5	N.D.	10	1
10334	2,4-Dinitrotoluene	121-14-2	N.D.	0.4	1
10334	2,6-Dinitrotoluene	606-20-2	N.D.	0.3	1

Sample Description: Effluent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880863
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:45 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 625**		ug/l	ug/l	
10334	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1	1
10334	Fluoranthene	206-44-0	N.D.	0.3	1
10334	Fluorene	86-73-7	N.D.	0.3	1
10334	Hexachlorobenzene	118-74-1	N.D.	1	1
10334	Hexachlorobutadiene	87-68-3	N.D.	0.8	1
10334	Hexachlorocyclopentadiene	77-47-4	N.D.	2	1
10334	Hexachloroethane	67-72-1	N.D.	0.4	1
10334	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.3	1
10334	Isophorone	78-59-1	N.D.	0.3	1
10334	2-Methylnaphthalene	91-57-6	N.D.	0.3	1
10334	2-Methylphenol	95-48-7	N.D.	0.3	1
10334	4-Methylphenol	106-44-5	N.D.	0.3	1
10334	Naphthalene	91-20-3	N.D.	0.2	1
10334	2-Nitroaniline	88-74-4	N.D.	0.3	1
10334	3-Nitroaniline	99-09-2	N.D.	0.4	1
10334	4-Nitroaniline	100-01-6	N.D.	0.4	1
10334	Nitrobenzene	98-95-3	N.D.	0.5	1
10334	2-Nitrophenol	88-75-5	N.D.	0.4	1
10334	4-Nitrophenol	100-02-7	N.D.	5	1
10334	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.4	1
10334	N-Nitrosodiphenylamine	86-30-6	N.D.	0.3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10334	Di-n-octylphthalate	117-84-0	N.D.	0.5	1
10334	Pentachlorophenol	87-86-5	N.D.	3	1
10334	Phenanthrene	85-01-8	N.D.	0.2	1
10334	Phenol	108-95-2	N.D.	0.4	1
10334	Pyrene	129-00-0	N.D.	0.2	1
10334	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.3	1
10334	2,4,5-Trichlorophenol	95-95-4	N.D.	0.4	1
10334	2,4,6-Trichlorophenol	88-06-2	N.D.	0.7	1
Metals	**EPA 200.7 rev 4.4**		mg/l	mg/l	
07051	Chromium	7440-47-3	0.0026 J	0.0018	1
02828	Trivalent Chromium waters	16065-83-1	0.0026 J	0.0018	1
	The Trivalent Chromium result is calculated by subtracting Hexavalent Chromium from Total Chromium.				
Wet Chemistry	**SM 3500-Cr B-2009**		mg/l	mg/l	
01446	Hexavalent Chromium	18540-29-9	N.D.	0.0010	1

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Analysis Report

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Sample Description: Effluent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880863
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:45 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/18.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02698	TCL SOM01.2 VOCs	SW-846 8260B 25mL purge	1	I170791AA	03/20/2017 16:00	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I170791AA	03/20/2017 16:00	Kerri E Legerlotz	1
10334	TCL 3.2 SVOCs	EPA 625	1	17075WAF625	03/18/2017 06:37	William H Saadeh	1
08108	625 Water Extraction	EPA 625	1	17075WAF625	03/17/2017 08:00	Kayla A Yuditsky	1
07051	Chromium	EPA 200.7 rev 4.4	1	170805716004	03/26/2017 02:05	Matthew R Machtinger	1
02828	Trivalent Chromium waters	EPA 200.7 rev 4.4	1	170832828001	03/27/2017 08:35	Nina C Haller	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	170805716004	03/21/2017 17:58	Barbara A Kane	1
01446	Hexavalent Chromium	SM 3500-Cr B-2009	1	17072144601A	03/13/2017 21:39	Hannah M Royer	1

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Analysis Report

Sample Description: Midfluent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880864
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:50 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B 25mL purge		ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	2-Butanone	78-93-3	N.D.	1.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	N.D.	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	Cyclohexane	110-82-7	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	1,4-Dioxane	123-91-1	N.D.	20	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Freon 113	76-13-1	N.D.	0.2	1
02898	2-Hexanone	591-78-6	N.D.	1.0	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	Methyl Acetate	79-20-9	N.D.	0.3	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.	1.0	1
02898	Methylcyclohexane	108-87-2	N.D.	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1

Sample Description: Midfluent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880864
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:50 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B 25mL purge		ug/l	ug/l	
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	m+p-Xylene	179601-23-1	N.D.	0.1	1
02898	o-Xylene	95-47-6	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC/MS Semivolatiles	EPA 625		ug/l	ug/l	
10334	Acenaphthene	83-32-9	N.D.	0.3	1
10334	Acenaphthylene	208-96-8	N.D.	0.3	1
10334	Anthracene	120-12-7	N.D.	0.2	1
10334	Benzo(a)anthracene	56-55-3	N.D.	0.2	1
10334	Benzo(a)pyrene	50-32-8	N.D.	0.3	1
10334	Benzo(b)fluoranthene	205-99-2	N.D.	0.3	1
10334	Benzo(g,h,i)perylene	191-24-2	N.D.	0.2	1
10334	Benzo(k)fluoranthene	207-08-9	N.D.	0.3	1
10334	4-Bromophenyl-phenylether	101-55-3	N.D.	0.3	1
10334	Butylbenzylphthalate	85-68-7	N.D.	0.8	1
10334	Di-n-butylphthalate	84-74-2	N.D.	0.5	1
10334	Carbazole	86-74-8	N.D.	0.2	1
10334	4-Chloro-3-methylphenol	59-50-7	N.D.	0.3	1
10334	4-Chloroaniline	106-47-8	N.D.	0.3	1
10334	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
10334	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.4	1
10334	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.3	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10334	2-Chloronaphthalene	91-58-7	N.D.	0.2	1
10334	2-Chlorophenol	95-57-8	N.D.	0.3	1
10334	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.3	1
10334	Chrysene	218-01-9	N.D.	0.2	1
10334	Dibenz(a,h)anthracene	53-70-3	N.D.	0.4	1
10334	Dibenzofuran	132-64-9	N.D.	0.2	1
10334	1,2-Dichlorobenzene	95-50-1	N.D.	0.3	1
10334	1,3-Dichlorobenzene	541-73-1	N.D.	0.3	1
10334	1,4-Dichlorobenzene	106-46-7	N.D.	0.3	1
10334	3,3'-Dichlorobenzidine	91-94-1	N.D.	0.8	1
10334	2,4-Dichlorophenol	120-83-2	N.D.	0.3	1
10334	Diethylphthalate	84-66-2	N.D.	0.3	1
10334	2,4-Dimethylphenol	105-67-9	N.D.	0.3	1
10334	Dimethylphthalate	131-11-3	N.D.	0.9	1
10334	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	4	1
10334	2,4-Dinitrophenol	51-28-5	N.D.	9	1
10334	2,4-Dinitrotoluene	121-14-2	N.D.	0.4	1
10334	2,6-Dinitrotoluene	606-20-2	N.D.	0.3	1

Sample Description: Midfluent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880864
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:50 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles EPA 625			ug/l	ug/l	
10334	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	0.9	1
10334	Fluoranthene	206-44-0	N.D.	0.3	1
10334	Fluorene	86-73-7	N.D.	0.3	1
10334	Hexachlorobenzene	118-74-1	N.D.	0.9	1
10334	Hexachlorobutadiene	87-68-3	N.D.	0.8	1
10334	Hexachlorocyclopentadiene	77-47-4	N.D.	2	1
10334	Hexachloroethane	67-72-1	N.D.	0.4	1
10334	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.3	1
10334	Isophorone	78-59-1	N.D.	0.3	1
10334	2-Methylnaphthalene	91-57-6	N.D.	0.3	1
10334	2-Methylphenol	95-48-7	N.D.	0.3	1
10334	4-Methylphenol	106-44-5	N.D.	0.3	1
10334	Naphthalene	91-20-3	N.D.	0.2	1
10334	2-Nitroaniline	88-74-4	N.D.	0.3	1
10334	3-Nitroaniline	99-09-2	N.D.	0.4	1
10334	4-Nitroaniline	100-01-6	N.D.	0.4	1
10334	Nitrobenzene	98-95-3	N.D.	0.5	1
10334	2-Nitrophenol	88-75-5	N.D.	0.4	1
10334	4-Nitrophenol	100-02-7	N.D.	5	1
10334	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.4	1
10334	N-Nitrosodiphenylamine	86-30-6	N.D.	0.3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10334	Di-n-octylphthalate	117-84-0	N.D.	0.5	1
10334	Pentachlorophenol	87-86-5	N.D.	3	1
10334	Phenanthrene	85-01-8	N.D.	0.2	1
10334	Phenol	108-95-2	N.D.	0.4	1
10334	Pyrene	129-00-0	N.D.	0.2	1
10334	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.3	1
10334	2,4,5-Trichlorophenol	95-95-4	N.D.	0.4	1
10334	2,4,6-Trichlorophenol	88-06-2	N.D.	0.7	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/18.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	TCL SOM01.2 VOCs	SW-846 8260B 25mL purge	1	I170791AA	03/20/2017 16:21	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I170791AA	03/20/2017 16:21	Kerri E Legerlotz	1

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Analysis Report

Sample Description: Midfluent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880864
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:50 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR2

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10334	TCL 3.2 SVOCs	EPA 625	1	17075WAF625	03/18/2017 07:00	William H Saadeh	1
08108	625 Water Extraction	EPA 625	1	17075WAF625	03/17/2017 08:00	Kayla A Yuditsky	1

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Analysis Report

Sample Description: Influent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880865
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:55 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR3

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B 25mL purge		ug/l		ug/l	
02898	Acetone	67-64-1	N.D.		30	10
02898	Benzene	71-43-2	N.D.		1.0	10
02898	Bromochloromethane	74-97-5	N.D.		1.0	10
02898	Bromodichloromethane	75-27-4	N.D.		1.0	10
02898	Bromoform	75-25-2	N.D.		1.0	10
02898	Bromomethane	74-83-9	N.D.		1.0	10
02898	2-Butanone	78-93-3	N.D.		10	10
02898	Carbon Disulfide	75-15-0	N.D.		4.0	10
02898	Carbon Tetrachloride	56-23-5	N.D.		1.0	10
02898	Chlorobenzene	108-90-7	N.D.		1.0	10
02898	Chloroethane	75-00-3	N.D.		1.0	10
02898	Chloroform	67-66-3	N.D.		1.0	10
02898	Chloromethane	74-87-3	N.D.		2.0	10
02898	Cyclohexane	110-82-7	N.D.		1.0	10
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.0	10
02898	Dibromochloromethane	124-48-1	N.D.		1.0	10
02898	1,2-Dibromoethane	106-93-4	N.D.		1.0	10
02898	1,2-Dichlorobenzene	95-50-1	1.0	J	1.0	10
02898	1,3-Dichlorobenzene	541-73-1	N.D.		1.0	10
02898	1,4-Dichlorobenzene	106-46-7	N.D.		1.0	10
02898	Dichlorodifluoromethane	75-71-8	N.D.		1.0	10
02898	1,1-Dichloroethane	75-34-3	13		1.0	10
02898	1,2-Dichloroethane	107-06-2	N.D.		1.0	10
02898	1,1-Dichloroethene	75-35-4	8.5		1.0	10
02898	cis-1,2-Dichloroethene	156-59-2	240		10	100
02898	trans-1,2-Dichloroethene	156-60-5	2.1	J	1.0	10
02898	1,2-Dichloropropane	78-87-5	N.D.		1.0	10
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		1.0	10
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		1.0	10
02898	1,4-Dioxane	123-91-1	N.D.		200	10
02898	Ethylbenzene	100-41-4	N.D.		1.0	10
02898	Freon 113	76-13-1	3.2	J	2.0	10
02898	2-Hexanone	591-78-6	N.D.		10	10
02898	Isopropylbenzene	98-82-8	N.D.		1.0	10
02898	Methyl Acetate	79-20-9	N.D.		3.0	10
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		1.0	10
02898	4-Methyl-2-pentanone	108-10-1	N.D.		10	10
02898	Methylcyclohexane	108-87-2	N.D.		1.0	10
02898	Methylene Chloride	75-09-2	N.D.		2.0	10
02898	Styrene	100-42-5	N.D.		1.0	10
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.0	10
02898	Tetrachloroethene	127-18-4	17		1.0	10
02898	Toluene	108-88-3	N.D.		1.0	10
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		1.0	10
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		1.0	10
02898	1,1,1-Trichloroethane	71-55-6	93		1.0	10
02898	1,1,2-Trichloroethane	79-00-5	N.D.		1.0	10

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Analysis Report

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Sample Description: Influent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880865
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:55 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR3

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	
02898	Trichloroethene	79-01-6	760		10	100
02898	Trichlorofluoromethane	75-69-4	N.D.		1.0	10
02898	Vinyl Chloride	75-01-4	2.8	J	1.0	10
02898	m+p-Xylene	179601-23-1	N.D.		1.0	10
02898	o-Xylene	95-47-6	N.D.		1.0	10
02898	Xylene (Total)	1330-20-7	N.D.		1.0	10
GC/MS Semivolatiles	**EPA 625**		ug/l		ug/l	
10334	Acenaphthene	83-32-9	N.D.		0.3	1
10334	Acenaphthylene	208-96-8	N.D.		0.3	1
10334	Anthracene	120-12-7	N.D.		0.2	1
10334	Benzo(a)anthracene	56-55-3	N.D.		0.2	1
10334	Benzo(a)pyrene	50-32-8	N.D.		0.3	1
10334	Benzo(b)fluoranthene	205-99-2	N.D.		0.3	1
10334	Benzo(g,h,i)perylene	191-24-2	N.D.		0.2	1
10334	Benzo(k)fluoranthene	207-08-9	N.D.		0.3	1
10334	4-Bromophenyl-phenylether	101-55-3	N.D.		0.3	1
10334	Butylbenzylphthalate	85-68-7	N.D.		0.8	1
10334	Di-n-butylphthalate	84-74-2	N.D.		0.5	1
10334	Carbazole	86-74-8	N.D.		0.2	1
10334	4-Chloro-3-methylphenol	59-50-7	N.D.		0.3	1
10334	4-Chloroaniline	106-47-8	2	J	0.3	1
10334	bis(2-Chloroethoxy)methane	111-91-1	N.D.		0.5	1
10334	bis(2-Chloroethyl)ether	111-44-4	N.D.		0.4	1
10334	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.		0.3	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10334	2-Chloronaphthalene	91-58-7	N.D.		0.2	1
10334	2-Chlorophenol	95-57-8	N.D.		0.3	1
10334	4-Chlorophenyl-phenylether	7005-72-3	N.D.		0.3	1
10334	Chrysene	218-01-9	N.D.		0.2	1
10334	Dibenz(a,h)anthracene	53-70-3	N.D.		0.4	1
10334	Dibenzofuran	132-64-9	N.D.		0.2	1
10334	1,2-Dichlorobenzene	95-50-1	6		0.3	1
10334	1,3-Dichlorobenzene	541-73-1	N.D.		0.3	1
10334	1,4-Dichlorobenzene	106-46-7	0.7	J	0.3	1
10334	3,3'-Dichlorobenzidine	91-94-1	N.D.		0.8	1
10334	2,4-Dichlorophenol	120-83-2	N.D.		0.3	1
10334	Diethylphthalate	84-66-2	N.D.		0.3	1
10334	2,4-Dimethylphenol	105-67-9	N.D.		0.3	1
10334	Dimethylphthalate	131-11-3	N.D.		0.9	1
10334	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		4	1
10334	2,4-Dinitrophenol	51-28-5	N.D.		9	1
10334	2,4-Dinitrotoluene	121-14-2	N.D.		0.4	1
10334	2,6-Dinitrotoluene	606-20-2	N.D.		0.3	1

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Analysis Report

Sample Description: Influent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880865
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:55 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR3

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 625**		ug/l		ug/l	
10334	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		0.9	1
10334	Fluoranthene	206-44-0	N.D.		0.3	1
10334	Fluorene	86-73-7	N.D.		0.3	1
10334	Hexachlorobenzene	118-74-1	N.D.		0.9	1
10334	Hexachlorobutadiene	87-68-3	N.D.		0.8	1
10334	Hexachlorocyclopentadiene	77-47-4	N.D.		2	1
10334	Hexachloroethane	67-72-1	N.D.		0.4	1
10334	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.3	1
10334	Isophorone	78-59-1	N.D.		0.3	1
10334	2-Methylnaphthalene	91-57-6	0.5	J	0.3	1
10334	2-Methylphenol	95-48-7	N.D.		0.3	1
10334	4-Methylphenol	106-44-5	N.D.		0.3	1
10334	Naphthalene	91-20-3	2	J	0.2	1
10334	2-Nitroaniline	88-74-4	N.D.		0.3	1
10334	3-Nitroaniline	99-09-2	N.D.		0.4	1
10334	4-Nitroaniline	100-01-6	N.D.		0.4	1
10334	Nitrobenzene	98-95-3	N.D.		0.5	1
10334	2-Nitrophenol	88-75-5	N.D.		0.4	1
10334	4-Nitrophenol	100-02-7	N.D.		5	1
10334	N-Nitroso-di-n-propylamine	621-64-7	N.D.		0.4	1
10334	N-Nitrosodiphenylamine	86-30-6	N.D.		0.3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10334	Di-n-octylphthalate	117-84-0	N.D.		0.5	1
10334	Pentachlorophenol	87-86-5	N.D.		3	1
10334	Phenanthrene	85-01-8	N.D.		0.2	1
10334	Phenol	108-95-2	N.D.		0.4	1
10334	Pyrene	129-00-0	N.D.		0.2	1
10334	1,2,4-Trichlorobenzene	120-82-1	0.6	J	0.3	1
10334	2,4,5-Trichlorophenol	95-95-4	N.D.		0.4	1
10334	2,4,6-Trichlorophenol	88-06-2	N.D.		0.7	1
Metals	**EPA 200.7 rev 4.4**		mg/l		mg/l	
01743	Aluminum	7429-90-5	N.D.		0.0868	1
07044	Antimony	7440-36-0	N.D.		0.0077	1
07035	Arsenic	7440-38-2	N.D.		0.0097	1
07049	Cadmium	7440-43-9	0.0060		0.00049	1
07051	Chromium	7440-47-3	0.0107	J Q8	0.0018	1
02828	Trivalent Chromium waters	16065-83-1	0.0039	J	0.0018	1
	The Trivalent Chromium result is calculated by subtracting Hexavalent Chromium from Total Chromium.					
07052	Cobalt	7440-48-4	0.0104	Q8	0.0019	1
07053	Copper	7440-50-8	0.0064	J	0.0041	1
01754	Iron	7439-89-6	2.20		0.0747	1
07055	Lead	7439-92-1	N.D.		0.0062	1
07058	Manganese	7439-96-5	2.66	Q8	0.0018	1
07061	Nickel	7440-02-0	0.0192	Q8	0.0028	1

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Analysis Report

Sample Description: Influent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880865
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:55 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		**EPA 200.7 rev 4.4**	mg/l	mg/l	
07066	Silver	7440-22-4	N.D.	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0054	1
		EPA 245.1 rev 3	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry		**SM 4500-CN E-1999**	mg/l	mg/l	
00241	Cyanide (Free)	n.a.	N.D.	0.0040	1
		SM 3500-Cr B-2009	mg/l	mg/l	
01446	Hexavalent Chromium	18540-29-9	0.0068	0.0010	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/18.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	TCL SOM01.2 VOCs	SW-846 8260B 25mL purge	1	I170791AA	03/20/2017 16:42	Kerri E Legerlotz	10
02898	TCL SOM01.2 VOCs	SW-846 8260B 25mL purge	1	I170791AA	03/20/2017 17:03	Kerri E Legerlotz	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I170791AA	03/20/2017 16:42	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I170791AA	03/20/2017 17:03	Kerri E Legerlotz	100
10334	TCL 3.2 SVOCs	EPA 625	1	17075WAF625	03/18/2017 07:23	William H Saadeh	1
08108	625 Water Extraction	EPA 625	1	17075WAF625	03/17/2017 08:00	Kayla A Yuditsky	1
01743	Aluminum	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:19	Matthew R Machtinger	1
07044	Antimony	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:19	Matthew R Machtinger	1
07035	Arsenic	EPA 200.7 rev 4.4	1	170805716005	03/27/2017 01:37	Matthew R Machtinger	1
07049	Cadmium	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:19	Matthew R Machtinger	1
07051	Chromium	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:19	Matthew R Machtinger	1
02828	Trivalent Chromium waters	EPA 200.7 rev 4.4	1	170842828001	03/27/2017 08:31	Nina C Haller	1
07052	Cobalt	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:19	Matthew R Machtinger	1

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Analysis Report

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Sample Description: Influent Grab Groundwater
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880865
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017 09:55 by VM

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR3

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07053	Copper	EPA 200.7 rev 4.4	1	170805716005	03/27/2017 01:37	Matthew R Machtinger	1
01754	Iron	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:19	Matthew R Machtinger	1
07055	Lead	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:19	Matthew R Machtinger	1
07058	Manganese	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:19	Matthew R Machtinger	1
07061	Nickel	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:19	Matthew R Machtinger	1
07066	Silver	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:19	Matthew R Machtinger	1
07072	Zinc	EPA 200.7 rev 4.4	1	170805716005	03/25/2017 03:19	Matthew R Machtinger	1
00259	Mercury	EPA 245.1 rev 3	1	170805714002	03/22/2017 10:20	Damary Valentin	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	170805716005	03/22/2017 04:10	Lisa J Cooke	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	170805714002	03/22/2017 06:10	Lisa J Cooke	1
00241	Cyanide (Free)	SM 4500-CN E-1999	1	17081114101A	03/22/2017 07:14	Dein K Bernot	1
01446	Hexavalent Chromium	SM 3500-Cr B-2009	1	17072144601A	03/13/2017 21:39	Hannah M Royer	1

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Analysis Report

Sample Description: Trip Blank Water
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880866
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR4

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B 25mL purge		ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	2-Butanone	78-93-3	N.D.	1.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	N.D.	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	Cyclohexane	110-82-7	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	1,4-Dioxane	123-91-1	N.D.	20	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Freon 113	76-13-1	N.D.	0.2	1
02898	2-Hexanone	591-78-6	N.D.	1.0	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	Methyl Acetate	79-20-9	N.D.	0.3	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.	1.0	1
02898	Methylcyclohexane	108-87-2	N.D.	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1

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Analysis Report

Sample Description: Trip Blank Water
Upper Black Eddy, PA
Boarhead Farms Quarterly GW Sampling

LL Sample # WW 8880866
LL Group # 1776036
Account # 02575

Project Name: Boarhead Farms

Collected: 03/13/2017

Submitted: 03/13/2017 15:00
Reported: 03/27/2017 10:06

GES, Inc.-PA
Suite 500
440 Creamery Way
Exton PA 19341

BOAR4

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B 25mL purge		ug/l	ug/l	
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	m+p-Xylene	179601-23-1	N.D.	0.1	1
02898	o-Xylene	95-47-6	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/18.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	TCL SOM01.2 VOCs	SW-846 8260B 25mL purge	1	I170791AA	03/20/2017 15:39	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I170791AA	03/20/2017 15:39	Kerri E Legerlotz	1

Quality Control Summary

Client Name: GES, Inc.-PA
Reported: 03/27/2017 10:06

Group Number: 1776036

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result ug/l	MDL ug/l
Batch number: 1170791AA	Sample number(s): 8880863-8880866	
Acetone	N.D.	3.0
Benzene	N.D.	0.1
Bromochloromethane	N.D.	0.1
Bromodichloromethane	N.D.	0.1
Bromoform	N.D.	0.1
Bromomethane	N.D.	0.1
2-Butanone	N.D.	1.0
Carbon Disulfide	N.D.	0.4
Carbon Tetrachloride	N.D.	0.1
Chlorobenzene	N.D.	0.1
Chloroethane	N.D.	0.1
Chloroform	N.D.	0.1
Chloromethane	N.D.	0.2
Cyclohexane	N.D.	0.1
1,2-Dibromo-3-chloropropane	N.D.	0.2
Dibromochloromethane	N.D.	0.1
1,2-Dibromoethane	N.D.	0.1
1,2-Dichlorobenzene	N.D.	0.1
1,3-Dichlorobenzene	N.D.	0.1
1,4-Dichlorobenzene	N.D.	0.1
Dichlorodifluoromethane	N.D.	0.1
1,1-Dichloroethane	N.D.	0.1
1,2-Dichloroethane	N.D.	0.1
1,1-Dichloroethene	N.D.	0.1
cis-1,2-Dichloroethene	N.D.	0.1
trans-1,2-Dichloroethene	N.D.	0.1
1,2-Dichloropropane	N.D.	0.1
cis-1,3-Dichloropropene	N.D.	0.1
trans-1,3-Dichloropropene	N.D.	0.1
1,4-Dioxane	N.D.	20
Ethylbenzene	N.D.	0.1
Freon 113	N.D.	0.2
2-Hexanone	N.D.	1.0
Isopropylbenzene	N.D.	0.1
Methyl Acetate	N.D.	0.3
Methyl Tertiary Butyl Ether	N.D.	0.1
4-Methyl-2-pentanone	N.D.	1.0
Methylcyclohexane	N.D.	0.1
Methylene Chloride	N.D.	0.2
Styrene	N.D.	0.1

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.-PA
Reported: 03/27/2017 10:06

Group Number: 1776036

Method Blank (continued)

Analysis Name	Result ug/l	MDL ug/l
1,1,2,2-Tetrachloroethane	N.D.	0.1
Tetrachloroethene	N.D.	0.1
Toluene	N.D.	0.1
1,2,3-Trichlorobenzene	N.D.	0.1
1,2,4-Trichlorobenzene	N.D.	0.1
1,1,1-Trichloroethane	N.D.	0.1
1,1,2-Trichloroethane	N.D.	0.1
Trichloroethene	N.D.	0.1
Trichlorofluoromethane	N.D.	0.1
Vinyl Chloride	N.D.	0.1
m+p-Xylene	N.D.	0.1
o-Xylene	N.D.	0.1
Xylene (Total)	N.D.	0.1
Batch number: 17075WAF625	Sample number(s): 8880863-8880865	
Acenaphthene	N.D.	0.3
Acenaphthylene	N.D.	0.3
Anthracene	N.D.	0.2
Benzo(a)anthracene	N.D.	0.2
Benzo(a)pyrene	N.D.	0.3
Benzo(b)fluoranthene	N.D.	0.3
Benzo(g,h,i)perylene	N.D.	0.2
Benzo(k)fluoranthene	N.D.	0.3
4-Bromophenyl-phenylether	N.D.	0.3
Butylbenzylphthalate	N.D.	0.8
Di-n-butylphthalate	N.D.	0.5
Carbazole	N.D.	0.2
4-Chloro-3-methylphenol	N.D.	0.3
4-Chloroaniline	N.D.	0.3
bis(2-Chloroethoxy)methane	N.D.	0.5
bis(2-Chloroethyl)ether	N.D.	0.4
bis(2-Chloroisopropyl)ether	N.D.	0.3
2-Chloronaphthalene	N.D.	0.2
2-Chlorophenol	N.D.	0.3
4-Chlorophenyl-phenylether	N.D.	0.3
Chrysene	N.D.	0.2
Dibenz(a,h)anthracene	N.D.	0.4
Dibenzofuran	N.D.	0.2
1,2-Dichlorobenzene	N.D.	0.3
1,3-Dichlorobenzene	N.D.	0.3
1,4-Dichlorobenzene	N.D.	0.3
3,3'-Dichlorobenzidine	N.D.	0.8
2,4-Dichlorophenol	N.D.	0.3
Diethylphthalate	N.D.	0.3
2,4-Dimethylphenol	N.D.	0.3
Dimethylphthalate	N.D.	1
4,6-Dinitro-2-methylphenol	N.D.	4
2,4-Dinitrophenol	N.D.	10
2,4-Dinitrotoluene	N.D.	0.4

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.-PA
Reported: 03/27/2017 10:06

Group Number: 1776036

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
2,6-Dinitrotoluene	N.D.	0.3
bis(2-Ethylhexyl)phthalate	N.D.	1
Fluoranthene	N.D.	0.3
Fluorene	N.D.	0.3
Hexachlorobenzene	N.D.	1
Hexachlorobutadiene	N.D.	0.8
Hexachlorocyclopentadiene	N.D.	2
Hexachloroethane	N.D.	0.4
Indeno(1,2,3-cd)pyrene	N.D.	0.3
Isophorone	N.D.	0.3
2-Methylnaphthalene	N.D.	0.3
2-Methylphenol	N.D.	0.3
4-Methylphenol	N.D.	0.3
Naphthalene	N.D.	0.2
2-Nitroaniline	N.D.	0.3
3-Nitroaniline	N.D.	0.4
4-Nitroaniline	N.D.	0.4
Nitrobenzene	N.D.	0.5
2-Nitrophenol	N.D.	0.4
4-Nitrophenol	N.D.	5
N-Nitroso-di-n-propylamine	N.D.	0.4
N-Nitrosodiphenylamine	N.D.	0.3
Di-n-octylphthalate	N.D.	0.6
Pentachlorophenol	N.D.	3
Phenanthrene	N.D.	0.2
Phenol	N.D.	0.4
Pyrene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.3
2,4,5-Trichlorophenol	N.D.	0.4
2,4,6-Trichlorophenol	N.D.	0.7
	mg/l	mg/l
Batch number: 170805714002	Sample number(s): 8880862,8880865	
Mercury	N.D.	0.000050
Batch number: 170805716004	Sample number(s): 8880863	
Chromium	N.D.	0.0016
Batch number: 170805716005	Sample number(s): 8880862,8880865	
Aluminum	N.D.	0.0868
Antimony	N.D.	0.0077
Arsenic	N.D.	0.0097
Cadmium	N.D.	0.00049
Chromium	N.D.	0.0018
Cobalt	N.D.	0.0019
Copper	N.D.	0.0041
Iron	N.D.	0.0747
Lead	N.D.	0.0062
Manganese	N.D.	0.0018
Nickel	N.D.	0.0028

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.-PA
Reported: 03/27/2017 10:06

Group Number: 1776036

Method Blank (continued)

Analysis Name	Result mg/l	MDL mg/l
Silver	N.D.	0.0019
Zinc	N.D.	0.0054
Batch number: 17081114101A	Sample number(s): 8880862,8880865	
Cyanide (Free)	N.D.	0.0040
Batch number: 17072144601A	Sample number(s): 8880862-8880863,8880865	
Hexavalent Chromium	N.D.	0.0010

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: I170791AA	Sample number(s): 8880863-8880866								
Acetone	37.5	42.59	37.5	40.2	114	107	60-133	6	30
Benzene	5.00	5.43	5.00	5.17	109	103	80-120	5	30
Bromochloromethane	5.00	5.32	5.00	5.08	106	102	80-125	5	30
Bromodichloromethane	5.00	5.64	5.00	5.31	113	106	80-125	6	30
Bromoform	5.00	5.01	5.00	4.85	100	97	62-128	3	30
Bromomethane	5.00	5.48	5.00	5.12	110	102	64-125	7	30
2-Butanone	37.5	37.19	37.5	37.27	99	99	57-144	0	30
Carbon Disulfide	5.00	5.44	5.00	5.06	109	101	62-127	7	30
Carbon Tetrachloride	5.00	5.77	5.00	5.35	115	107	76-129	8	30
Chlorobenzene	5.00	5.22	5.00	5.01	104	100	80-120	4	30
Chloroethane	5.00	5.58	5.00	5.35	112	107	63-125	4	30
Chloroform	5.00	5.73	5.00	5.41	115	108	80-120	6	30
Chloromethane	5.00	5.66	5.00	5.35	113	107	55-126	6	30
Cyclohexane	5.00	5.12	5.00	4.82	102	96	69-120	6	30
1,2-Dibromo-3-chloropropane	5.00	4.68	5.00	4.29	94	86	47-153	9	30
Dibromochloromethane	5.00	5.35	5.00	5.16	107	103	78-127	3	30
1,2-Dibromoethane	5.00	5.33	5.00	5.25	107	105	80-120	1	30
1,2-Dichlorobenzene	5.00	5.04	5.00	4.89	101	98	80-120	3	30
1,3-Dichlorobenzene	5.00	4.97	5.00	4.80	99	96	80-120	3	30
1,4-Dichlorobenzene	5.00	5.02	5.00	4.82	100	96	80-120	4	30
Dichlorodifluoromethane	5.00	5.69	5.00	5.09	114	102	26-144	11	30
1,1-Dichloroethane	5.00	5.60	5.00	5.29	112	106	80-120	6	30
1,2-Dichloroethane	5.00	6.00	5.00	5.77	120	115	72-127	4	30
1,1-Dichloroethene	5.00	5.63	5.00	5.30	113	106	76-120	6	30
cis-1,2-Dichloroethene	5.00	5.64	5.00	5.34	113	107	80-120	5	30
trans-1,2-Dichloroethene	5.00	5.63	5.00	5.31	113	106	80-120	6	30
1,2-Dichloropropane	5.00	5.52	5.00	5.22	110	104	80-120	6	30
cis-1,3-Dichloropropene	5.00	5.44	5.00	5.19	109	104	80-120	5	30
trans-1,3-Dichloropropene	5.00	5.45	5.00	5.29	109	106	77-121	3	30
1,4-Dioxane	125	137.29	125	144.49	110	116	47-174	5	30
Ethylbenzene	5.00	5.37	5.00	5.14	107	103	80-120	4	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.-PA
Reported: 03/27/2017 10:06

Group Number: 1776036

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Freon 113	5.00	5.79	5.00	5.39	116	108	75-120	7	30
2-Hexanone	25	26.54	25	26.3	106	105	61-138	1	30
Isopropylbenzene	5.00	5.33	5.00	5.15	107	103	80-120	4	30
Methyl Acetate	5.00	5.62	5.00	5.43	112	109	57-138	3	30
Methyl Tertiary Butyl Ether	5.00	5.36	5.00	5.18	107	104	80-120	3	30
4-Methyl-2-pentanone	25	27.25	25	27.02	109	108	65-135	1	30
Methylcyclohexane	5.00	5.29	5.00	4.99	106	100	74-123	6	30
Methylene Chloride	5.00	5.41	5.00	5.20	108	104	80-120	4	30
Styrene	5.00	5.28	5.00	5.07	106	101	80-120	4	30
1,1,2,2-Tetrachloroethane	5.00	5.08	5.00	4.99	102	100	75-123	2	30
Tetrachloroethene	5.00	5.22	5.00	4.99	104	100	80-120	4	30
Toluene	5.00	5.34	5.00	5.14	107	103	80-120	4	30
1,2,3-Trichlorobenzene	5.00	4.74	5.00	4.72	95	94	66-120	0	30
1,2,4-Trichlorobenzene	5.00	4.85	5.00	4.76	97	95	67-120	2	30
1,1,1-Trichloroethane	5.00	5.63	5.00	5.23	113	105	79-120	8	30
1,1,2-Trichloroethane	5.00	5.30	5.00	5.22	106	104	80-120	2	30
Trichloroethene	5.00	5.61	5.00	5.16	112	103	80-120	8	30
Trichlorofluoromethane	5.00	6.28	5.00	5.86	126	117	65-134	7	30
Vinyl Chloride	5.00	5.80	5.00	5.39	116	108	62-128	7	30
m+p-Xylene	10	10.54	10	10.12	105	101	80-120	4	30
o-Xylene	5.00	5.10	5.00	4.93	102	99	80-120	3	30
Xylene (Total)	15	15.64	15	15.06	104	100	80-120	4	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 17075WAF625	Sample number(s): 8880863-8880865								
Acenaphthene	50	47.89	50	49.99	96	100	71-118	4	30
Acenaphthylene	50	46.95	50	48.53	94	97	65-116	3	30
Anthracene	50	46.86	50	49.07	94	98	80-114	5	30
Benzo(a)anthracene	50	47.32	50	50.57	95	101	76-117	7	30
Benzo(a)pyrene	50	44.06	50	47.11	88	94	76-112	7	30
Benzo(b)fluoranthene	50	48.75	50	48.77	98	98	73-116	0	30
Benzo(g,h,i)perylene	50	45.43	50	48.02	91	96	76-120	6	30
Benzo(k)fluoranthene	50	46.11	50	49.43	92	99	75-121	7	30
4-Bromophenyl-phenylether	50	46.24	50	46.78	92	94	75-118	1	30
Butylbenzylphthalate	50	48.21	50	50.75	96	101	78-120	5	30
Di-n-butylphthalate	50	47.26	50	50.15	95	100	77-116	6	30
Carbazole	50	47.94	50	50.01	96	100	78-112	4	30
4-Chloro-3-methylphenol	50	49.58	50	50.42	99	101	72-116	2	30
4-Chloroaniline	50	22.57	50	19.71	45	39	28-108	14	30
bis(2-Chloroethoxy)methane	50	48.18	50	49.66	96	99	76-120	3	30
bis(2-Chloroethyl)ether	50	46.81	50	47.81	94	96	74-111	2	30
bis(2-Chloroisopropyl)ether	50	45.51	50	46.25	91	92	73-110	2	30
2-Chloronaphthalene	50	62.52	50	62.35	125	125	40-155	0	30
2-Chlorophenol	50	49.1	50	50.64	98	101	74-114	3	30
4-Chlorophenyl-phenylether	50	47.27	50	49.82	95	100	70-116	5	30
Chrysene	50	47.01	50	49.98	94	100	81-118	6	30
Dibenz(a,h)anthracene	50	45.66	50	48.83	91	98	77-119	7	30
Dibenzofuran	50	47.23	50	49.02	94	98	68-116	4	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.-PA
Reported: 03/27/2017 10:06

Group Number: 1776036

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	50	37.45	50	38.55	75	77	26-111	3	30
1,3-Dichlorobenzene	50	36.25	50	36.8	73	74	24-107	2	30
1,4-Dichlorobenzene	50	37.31	50	38.51	75	77	21-108	3	30
3,3'-Dichlorobenzidine	50	27.02	50	20.34	54	41	14-124	28	30
2,4-Dichlorophenol	50	49.78	50	49.22	100	98	79-114	1	30
Diethylphthalate	50	45.83	50	45.29	92	91	63-119	1	30
2,4-Dimethylphenol	50	37.31	50	38.86	75	78	55-106	4	30
Dimethylphthalate	50	38.08	50	33.69	76	67	26-134	12	30
4,6-Dinitro-2-methylphenol	50	42.94	50	44.62	86	89	69-117	4	30
2,4-Dinitrophenol	100	72.83	100	77.62	73	78	34-129	6	30
2,4-Dinitrotoluene	50	49.32	50	50.9	99	102	80-120	3	30
2,6-Dinitrotoluene	50	50.65	50	50.52	101	101	80-115	0	30
bis(2-Ethylhexyl)phthalate	50	47.18	50	50.31	94	101	77-118	6	30
Fluoranthene	50	45.59	50	48.22	91	96	77-111	6	30
Fluorene	50	47.79	50	49.26	96	99	73-115	3	30
Hexachlorobenzene	50	44.99	50	48.72	90	97	75-116	8	30
Hexachlorobutadiene	50	34.92	50	36.84	70	74	10-113	5	30
Hexachlorocyclopentadiene	100	52.67	100	48.78	53	49	24-128	8	30
Hexachloroethane	50	33.68	50	34.2	67	68	11-105	2	30
Indeno(1,2,3-cd)pyrene	50	45.78	50	48.14	92	96	71-116	5	30
Isophorone	50	47.08	50	48.19	94	96	77-110	2	30
2-Methylnaphthalene	50	44.76	50	45.56	90	91	42-120	2	30
2-Methylphenol	50	44.49	50	47.29	89	95	58-117	6	30
4-Methylphenol	50	40.47	50	44.52	81	89	49-108	10	30
Naphthalene	50	42.37	50	42.05	85	84	52-115	1	30
2-Nitroaniline	50	49.9	50	50.67	100	101	80-120	2	30
3-Nitroaniline	50	46.65	50	46.51	93	93	72-108	0	30
4-Nitroaniline	50	39.39	50	41	79	82	61-104	4	30
Nitrobenzene	50	45.53	50	47.44	91	95	73-113	4	30
2-Nitrophenol	50	48.01	50	48.94	96	98	83-109	2	30
4-Nitrophenol	50	24.23	50	30.96	48	62	19-80	24	30
N-Nitroso-di-n-propylamine	50	47.29	50	48.29	95	97	78-110	2	30
N-Nitrosodiphenylamine	50	49.23	50	50.51	98	101	77-116	3	30
Di-n-octylphthalate	50	50.06	50	51.59	100	103	79-125	3	30
Pentachlorophenol	50	34	50	39.06	68	78	45-134	14	30
Phenanthrene	50	45.45	50	47.86	91	96	78-112	5	30
Phenol	50	22.97	50	28.77	46	58	21-71	22	30
Pyrene	50	47.16	50	50.09	94	100	75-121	6	30
1,2,4-Trichlorobenzene	50	38.94	50	39.54	78	79	23-117	2	30
2,4,5-Trichlorophenol	50	49.59	50	50.88	99	102	78-112	3	30
2,4,6-Trichlorophenol	50	50.36	50	52.57	101	105	80-120	4	30
	mg/l	mg/l	mg/l	mg/l					
Batch number: 170805714002	Sample number(s): 8880862,8880865								
Mercury	0.00100	0.000896			90		85-115		
Batch number: 170805716004	Sample number(s): 8880863								
Chromium	0.200	0.214			107		85-115		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.-PA
Reported: 03/27/2017 10:06

Group Number: 1776036

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 170805716005	Sample number(s): 8880862,8880865								
Aluminum	2.00	2.17			108		85-115		
Antimony	0.500	0.516			103		85-115		
Arsenic	0.150	0.150			100		85-115		
Cadmium	0.0500	0.0527			105		85-115		
Chromium	0.200	0.203			102		85-115		
Cobalt	0.500	0.514			103		85-115		
Copper	0.250	0.254			102		85-115		
Iron	1.00	1.01			101		85-115		
Lead	0.150	0.153			102		85-115		
Manganese	0.500	0.528			106		85-115		
Nickel	0.500	0.529			106		85-115		
Silver	0.0500	0.0539			108		85-115		
Zinc	0.500	0.517			103		85-115		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 17081114101A	Sample number(s): 8880862,8880865								
Cyanide (Free)	0.150	0.151			100		90-110		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 17072144601A	Sample number(s): 8880862-8880863,8880865								
Hexavalent Chromium	0.0200	0.0206	0.0200	0.0208	103	104	95-105	1	20

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 170805714002	Sample number(s): 8880862,8880865 UNSPK: P865921									
Mercury	N.D.	0.00100	0.000936			94		80-120		
Batch number: 170805716004	Sample number(s): 8880863 UNSPK: P885627									
Chromium	N.D.	0.200	0.197			98		70-130		
Batch number: 170805716005	Sample number(s): 8880862,8880865 UNSPK: 8880862, P880862									
Aluminum	N.D.	2.00	2.24			112		70-130		
Antimony	N.D.	0.500	0.528			106		70-130		
Arsenic	N.D.	0.150	0.151			101		70-130		
Cadmium	N.D.	0.0500	0.0523			105		70-130		
Chromium	0.00281	0.200	0.205			101		70-130		
Cobalt	0.00196	0.500	0.511			102		70-130		
Copper	N.D.	0.250	0.260			104		70-130		

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Quality Control Summary

Client Name: GES, Inc.-PA
Reported: 03/27/2017 10:06

Group Number: 1776036

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Iron	N.D.	1.00	1.03			103		70-130		
Lead	N.D.	0.150	0.155			103		70-130		
Manganese	0.123	0.500	0.550			85		70-130		
Nickel	0.00529	0.500	0.528			105		70-130		
Silver	N.D.	0.0500	0.0534			107		70-130		
Zinc	N.D.	0.500	0.517			103		70-130		
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 17081114101A	Sample number(s): 8880862,8880865 UNSPK: P876236									
Cyanide (Free)	N.D.	0.200	0.185			92		90-110		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 170805714002	Sample number(s): 8880862,8880865 BKG: P865921			
Mercury	N.D.	N.D.	0 (1)	20
Batch number: 170805716004	Sample number(s): 8880863 BKG: P885627			
Chromium	N.D.	N.D.	0 (1)	20
Batch number: 170805716005	Sample number(s): 8880862,8880865 BKG: 8880862, P880862			
Aluminum	N.D.	N.D.	0 (1)	20
Antimony	N.D.	N.D.	0 (1)	20
Arsenic	N.D.	N.D.	0 (1)	20
Cadmium	N.D.	N.D.	0 (1)	20
Chromium	0.00281	0.00221	24* (1)	20
Cobalt	0.00196	N.D.	200* (1)	20
Copper	N.D.	N.D.	0 (1)	20
Iron	N.D.	N.D.	0 (1)	20
Lead	N.D.	N.D.	0 (1)	20
Manganese	0.123	0.0262	130*	20
Nickel	0.00529	N.D.	200* (1)	20
Silver	N.D.	N.D.	0 (1)	20
Zinc	N.D.	N.D.	0 (1)	20
	mg/l	mg/l		
Batch number: 17081114101A	Sample number(s): 8880862,8880865 BKG: P876236			
Cyanide (Free)	N.D.	N.D.	0 (1)	20
	mg/l	mg/l		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.-PA
Reported: 03/27/2017 10:06

Group Number: 1776036

Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 17072144601A	Sample number(s): 8880862-8880863,8880865 BKG: P881117			
Hexavalent Chromium	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SOM01.2 VOCs
Batch number: I170791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8880863	108	104	100	102
8880864	107	99	100	103
8880865	108	100	101	101
8880866	107	101	102	102
Blank	103	103	99	101
LCS	104	99	100	103
LCSD	103	99	100	103
Limits:	77-114	74-113	77-110	78-110

Analysis Name: TCL 3.2 SVOCs
Batch number: 17075WAP625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol
8880863	93	91	96	43	66	99
8880864	69	69	74	38	57	75
8880865	89	87	87	2*	2*	8*
Blank	90	86	86	44	66	91
LCS	93	93	83	44	67	91
LCSD	94	95	92	55	77	97
Limits:	60-119	62-116	55-124	10-76	10-105	27-142

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2575/1776036/8880862-66

Serial Number

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17605

Lynn Frederickson
Principal Project Manager - Client Services
Phone: (717) 656-2300

Project Name:	GES Project Number:
Boarhead Farms (02575)	0204215-40-001
1310 Lonely Cottage Rd. Upper Black Eddy, PA 18972	Quote No.:
GES Project Manager: Derek Jelinek	Client Phone: 610-458-1077 x3065 / Client Fax: 610-458-2300
Client Name: Groundwater & Environmental Services, Inc.	Client E-mail: labreportspae@gesonline.com and DJelinek@gesonline.com
Client Address: 440 Creamery Way, Suite 500, Exton PA 19341	

Page 1 of 1

STANDARD REPORT DELIVERY ☒

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE ○

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	Chromium (200.7), Trivalent Chromium	Chromium, Hexavalent (SM20 3500 Cr B)	Cyanide, Free (SM20 4500 CN E)	Metals (200.7) - See Site Specific List	SVOCs (625) - See Site Specific List	VOCs (SW846-8260B 25mL purge) - See Site Specific List				
								HNO_3 (250 mL)	None (250 mL)	NaOH/asc (250 mL)	HNO_3 (250 mL)	None (1000 mL)	HCl (40 mL)				
								NUMBER OF CONTAINERS SUBMITTED									
3-13-17	10:10	Effluent Composite	C	X					1	1	1						
3-13-17	0945	Effluent Grab	G	X				1	1			2	3				
3-13-17	0950	Midfluent Grab	G	X								2	3				
3-13-17	0955	Influent Grab	G	X				X	1	1	1	2	3				
3-13-17	–	Trip Blank	G	X									2				

PRESERVATIVE (Bottle Size)

REMARKS

"X" - Indicates analysis required but will be analyzed from the Influent grab sample collected for the Metals analysis.

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3-13-17	12:46		3-13-17 1500 ~~1245~~				
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	3-13-17	12:45						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL LOG NO.	LABORATORY REMARKS:
	3/13/17	1500	YES ○ NO ☒			

FCU036:12.20.00:2

Original - Return to Laboratory with Sample(s)

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Sample Administration Receipt Documentation Log

Doc Log ID: 177959

Group Number(s): 1776036

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	03/13/2017 15:00
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	PA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	2
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Katherine Metzger (2241) at 16:18 on 03/13/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.9	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	none detected
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...
W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Additional Data Qualifiers

Qualifier	Definition
B	Detection in the Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q4	MS/MSD Out of Range
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD