

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

Profile: **00588**

GENERATOR INFORMATION

Name: [REDACTED] USEPA ID # _____
 Facility Address: [REDACTED] SIC/NAICS Code: _____ State Code: _____
 City: [REDACTED] State: [REDACTED] Code: [REDACTED]
 Contact: _____ Title: _____ Phone: [REDACTED]

BILLING INFORMATION

[REDACTED] SAME AS ABOVE
 Company Name: [REDACTED]
 Address: [REDACTED]
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]
 Attention: [REDACTED] Phone: [REDACTED] Fax: [REDACTED]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Spent Caustic

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

CAUSTIC WASTES CONSOLIDATION

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: 1002

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input checked="" type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input type="checkbox"/> 1-3% <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input checked="" type="checkbox"/> 1.3-1.4 Exact / Other _____	acceptable 01.16.15
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pH: NA ≤ 2 2-4 4-6 6-8 8-10 10-12.5 >12.5

Liquid Flash Point: <73°F 73-100°F 101-140°F 141-200°F >200°F None Closed Cup Open Cup

VOC CONCENTRATION - ≤ 450 PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT >= 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Sodium Hydroxide	99	90			
Cl-C10-BTEX	0.00015	0			
Water	60	0			
Solids	1	0			

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge-provide backup

Lab Analysis Generator Knowledge TCLP TOTAL

Not Present		Concentration	Not Present		Concentration				
PCB	<input checked="" type="checkbox"/>	_____ ppm	Aromatic Amine	<input checked="" type="checkbox"/>	_____ ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	< 5 ppm
Dioxins	<input checked="" type="checkbox"/>	_____ ppm	Pesticides	<input checked="" type="checkbox"/>	_____ ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	< 100 ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	_____ ppm	Rodenticides	<input checked="" type="checkbox"/>	_____ ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	< 1 ppm
Cyanides Total	<input checked="" type="checkbox"/>	_____ ppm	Fungicides	<input checked="" type="checkbox"/>	_____ ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	< 5 ppm
Sulfides Reactive	<input checked="" type="checkbox"/>	_____ ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/>	< 5 ppm
Sulfides Total	<input checked="" type="checkbox"/>	96 ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	< 0.2 ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/>	< 1 ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/>	< 5 ppm

TCLP Organics D012 - D043 above regulatory limits: Present Not Present

IS WASTE ANY OF THE FOLLOWING? *At Least One Box Must Be Checked.*

- Radioactive Water Reactive Oxidizer Shock Sensitive Reactive (other) DOT Explosives
 NIOSH Human-Positive Carcinogens NESHAP Wastes (Benzene, etc.) Biological None Apply

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds _____
- DOT Shipping Name RQ Waste Sodium Hydroxide Solution Hazard Class 8 UN 1824
- PG II ERG _____ Hazardous Constituents for "n.o.s." _____
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: VARIABLES or One Time
- Special Handling Requirements including PPE: WEAR PPE, ESPECIALLY GOGGLES OR FACE SHIELD

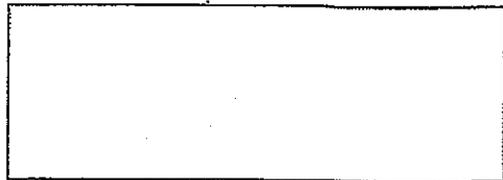
CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked , I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: _____ Title: _____
 Generator's Signature: _____ Date: Jan 16, 15

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

1. _____ 2. _____
 SAMPLING METHOD COLLECTION POINT
3. _____
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
4. Sample No. _____ Preservation: Yes No



5. CHAIN OF CUSTODY *Each person who handles the sample must sign below when the sample passes from one to another.*

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

MaxxID _____ Client ID _____ Meter Number _____ Laboratory Number _____
 Operator Name _____ LSD _____ Well ID _____
 Well Name _____ NA _____ Initials of Sampler _____ Sampling Company _____
 Field or Area _____ Pool or Zone _____ Sample Point **12.5-13 LNG CAUSTIC** Container Identity **PLASTIC BOTTLE**
 Percent Full _____

Test Recovery
 Test Type _____ No. _____ Multiple Recovery _____
 Production Rates: Water m3/d _____ Oil m3/d _____ Gas 1000m3/d _____
 Interval: From: _____ To: _____
 Gauge Pressures kPa: Source _____ As Received _____
 Elevations (m): KB _____ GRD _____
 Temperature °C: Source _____ As Received _____ 23.0
 Sample Gathering Point _____ Solution Gas _____
 Well Fluid Status _____ Well Status Mode _____
 Well Status Type _____ Well Type _____
 Gas or Condensate Project _____ Licence No. _____

2013/11/29 _____ 2013/12/09 _____ 2013/12/11 _____ 2013/12/11 _____
 Date Sampled Start _____ Date Sampled End _____ Date Received _____ Date Reported _____ Date Reissued _____
 DR3,MC3,MCF,AK8,ABG,JG3 _____
 Analyst _____

PARAMETER DESCRIPTION	Result	unit	Method	MDL
Misc. Inorganics				
pH	12.3	pH	SM 4500-H B	
Total Organic Carbon (C)	4900	mg/L	MMCW 119	250
Misc. Organics				
Naphthenic Acids	<5.0	mg/L	EPA 3510C/IR	5.0
Oil and grease	<22	mg/L	SM 5520C	22
Phenols	37	mg/L	AENV Method Code 154	4.0

** Information not supplied by client - data derived from LSD information
Results relate only to items tested

Remarks:
TOC present in the sample should be considered as non-purgeable TOC.

MaxxID		Client ID		Meter Number	Laboratory Number
Operator Name			LSD	Well ID	
Well Name			NA	Initials of Sampler	
Field or Area			12.5-13 LNG CAUSTIC	Sampling Company	
Pool or Zone			Sample Point	Container Identity	
Test Recovery			Interval	Elevations (m)	Sample Gathering Point
Test Type	No.	Multiple Recovery	From: To:	KB GRD	Well Fluid Status
Production Rates			Gauge Pressures kPa	Temperature °C	Well Status Made
Water m3/d	Oil m3/d	Gas 1000m3/d	Source As Received	23.0	Well Status Type
			Source As Received	Source As Received	Well Type
				Gas or Condensate Project	Licence No.
2013/11/29		2013/12/09		2013/12/11	2013/12/11
Date Sampled Start	Date Sampled End	Date Received	Date Reported	Date Reissued	Analyst
					DR3,MC3,MCF,AK8,ABG,JG3

PARAMETER DESCRIPTION	Result	unit	Method	MDL
Hydrocarbons				
Total Extractables C10 to C30	6.11	mg/L	EPA3510C/CCME PHCCWS	0.20
** Information not supplied by client – data derived from LSD Information				
Results relate only to items tested				

Remarks:

TOC present in the sample should be considered as non-purgeable TOC.

MaxxD		Client ID		Meter Number		Laboratory Number	
Operator Name				LSD		Well ID	
Well Name				Initials of Sampler		Sampling Company	
Field or Area				Sample Point		Container Identity	
				12.5-13 LNG CAUSTIC		PLASTIC BOTTLE	
Test Recovery		Interval		Elevations (m)		Sample Gathering Point	
Test Type		From:		KB		Well Fluid Status	
No.		To:		GRD		Well Status Mode	
Multiple Recovery		Gauge Pressures kPa		Temperature °C		Well Status Type	
Production Rates		Source		As Received		Well Type	
Water m3/d		Oil m3/d		Gas 1000m3/d		Gas or Condensate Project	
Licence No.		Licence No.		Licence No.		Licence No.	
2013/11/29		2013/12/09		2013/12/11		2013/12/11	
Date Sampled Start		Date Sampled End		Date Received		Date Reported	
						DR3,MC3,MCF,AK8,ABG,JG3	
						Analyst	

PARAMETER DESCRIPTION	Result	unit	Method	MDL
Volatiles				
Benzene	30	ug/L	CCME, EPA 8260C	4.0
Toluene	15	ug/L	CCME, EPA 8260C	4.0
Ethylbenzene	<4.0	ug/L	CCME, EPA 8260C	4.0
m & p-Xylene	<8.0	ug/L	CCME, EPA 8260C	8.0
o-Xylene	<4.0	ug/L	CCME, EPA 8260C	4.0
Xylenes (Total)	<8.0	ug/L	CCME, EPA 8260C	8.0
F1 (C6-C10) - BTEX	450000	ug/L	CCME, EPA 8260C	10000
(C6-C10)	450000	ug/L	CCME, EPA 8260C	10000

** Information not supplied by client - data derived from LSD information

Results relate only to items tested

Remarks:

TOC present in the sample should be considered as non-purgeable TOC.

MaxxID		Client ID		Meter Number		Laboratory Number	
Operator Name				LSD		Well ID	
Well Name				NA		Sampling Company	
Field or Area				12.5-13 LNG CAUSTIC		Container Identify	
Pool or Zone				Sample Point		Percent Full	
Test Recovery				Interval		Elevations (m)	
Test Type		No.		Multiple Recovery		Sample Gathering Point	
Production Rates		Gauge Pressures kPa		Temperature °C		Well Fluid Status	
Water m3/d		Oil m3/d		Gas 1000m3/d		Well Status Mode	
Source		As Received		Source		Well Status Type	
2013/11/29		2013/12/09		2013/12/11		2013/12/11	
Date Sampled Start		Date Sampled End		Date Received		Date Reported	
						CB	
						Analyst	

Component	COMPOSITION Common Name	Boiling Pt. (°C)	Sulphur mole ppm	Sulphur mass ppm	PROPERTIES	
Hydrogen Sulphide	H2S	-60.4	<0.5	<0.5	Molecular Wt. (g/mole) Measured	
Carbonyl Sulphide	COS	-50	<0.5	<0.5		
Methanethiol	Methyl mercaptan	6.2	6.9	2.4		
Ethanethiol	Ethyl mercaptan	35	1.3	0.5		
Dimethyl Sulphide	DMS	38	<0.5	<0.5		
Carbon Disulphide	CS2	46.5	<0.5	<0.5		
Iso-Propanethiol	Iso-propyl mercaptan	58	<0.5	<0.5		Molecular Wt. (g/mole) Calculated
t-Butanethiol	tert-butyl mercaptan	64	<0.5	<0.5		
Methyl Ethyl Sulphide	MES	67	<0.5	<0.5		
n-Propanethiol	Propyl mercaptan	70	<0.5	<0.5		
Unknown		36-69	<0.5	<0.5		
Thiophene/sec-Butanethiol	Thiophene/sec-Butyl mercaptan	84/90	<0.5	<0.5		
Diethyl Sulphide	DES	92.1	<0.5	<0.5		
Iso-Butanethiol	Iso-butyl mercaptan	99	<0.5	<0.5		
n-Butanethiol	Butyl mercaptan	98	<0.5	<0.5		
Unknown		71-97	<0.5	<0.5		
Dimethyl Disulphide	DMDS	110	275.9	95.8	Onsite H2S ppm(mole) mole%	
n-Pentanethiol	Pentyl mercaptan	127	0.8	<0.5		
Unknown		100-126	61.0	21.2		
n-Hexanethiol	Hexyl mercaptan	151	1.2	<0.5		
Unknown		127-150	1.3	0.5		
n-Heptanethiol	Heptyl mercaptan	177	<0.5	<0.5		
Unknown		152-176	1.0	<0.5		
Total Sulphur			<5	<5		

Mercaptan Sulphur on Naphtha fraction (IBP 204°C) ASTM D3227 (mass%)
 Naphtha IBP 204°C (volume %)
 Elemental Sulphur (mass ppm)

Information not supplied by client - data derived from LSD Information

Results relate only to items tested

Remarks:

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

Profile # 00589

GENERATOR INFORMATION

Name: [REDACTED] USEPA ID # _____
 Facility Address: [REDACTED] SIC/NAICS Code: _____ State Code: _____
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]
 Contact: _____ Title: _____ Phone: () _____ Fax: () _____

BILLING INFORMATION

Company Name: [REDACTED]
 Address: [REDACTED]
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]
 Attention: [REDACTED] Phone: [REDACTED] Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Shale Water Solution

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

See Attached

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: 022L

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input checked="" type="checkbox"/> > 5%	Layers: <input checked="" type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other _____	acceptable 0.16.15
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pH: NA ≤ 2 2-4 4-6 6-8 8-10 10-12.5 ≥12.5

Liquid Flash Point: <73°F 73-100°F 101-140°F 141-200°F >200°F None Closed Cup Open Cup

VOC CONCENTRATION - 1 ppm PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT >= 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Water</u>	<u>99</u>	<u>0</u>			
<u>Trace Organics</u>	<u>1 ppm</u>	<u>0</u>			
<u>Solids</u>	<u>214</u>	<u>0</u>			

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge-provide backup

<input checked="" type="checkbox"/> Lab Analysis	<input checked="" type="checkbox"/> Generator Knowledge	<input checked="" type="checkbox"/> TCLP	<input type="checkbox"/> TOTAL
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Not Present	Concentration	Not Present	Concentration	Arsenic (As)	D004	<input checked="" type="checkbox"/> < 5 ppm	_____ ppm
PCB	<input checked="" type="checkbox"/> _____ ppm	Aromatic Amine	<input checked="" type="checkbox"/> _____ ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/> <100 ppm	_____ ppm
Dioxins	<input checked="" type="checkbox"/> _____ ppm	Pesticides	<input checked="" type="checkbox"/> _____ ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/> < 1 ppm	_____ ppm
Cyanides Reactive	<input checked="" type="checkbox"/> _____ ppm	Rodenticides	<input checked="" type="checkbox"/> _____ ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/> < 5 ppm	_____ ppm
Cyanides Total	<input checked="" type="checkbox"/> _____ ppm	Fungicides	<input checked="" type="checkbox"/> _____ ppm	Lead (Pb)	D008	<input checked="" type="checkbox"/> < 5 ppm	_____ ppm
Sulfides Reactive	<input checked="" type="checkbox"/> _____ ppm			Mercury (Hg)	D009	<input checked="" type="checkbox"/> < 0.2 ppm	_____ ppm
Sulfides Total	<input checked="" type="checkbox"/> _____ ppm			Selenium (Se)	D010	<input checked="" type="checkbox"/> < 1 ppm	_____ ppm
				Silver (Ag)	D011	<input checked="" type="checkbox"/> < 5 ppm	_____ ppm

TCLP Organics D012 - D043 above regulatory limits: Present Not Present

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

Radioactive Water Reactive Oxidizer Shock Sensitive Reactive (other) DOT Explosives
 NIOSH Human-Positive Carcinogens NESHAP Wastes (Benzene, etc.) Biological None Apply

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No

2. Reportable Quantity (RQ) in pounds _____

3. DOT Shipping Name Non-Regulated Wastewater Hazard Class _____ UN/NA _____

PG _____ ERG _____ Hazardous Constituents for "n.o.s." _____

4. Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes

5. Number of Units to Ship Now: 2 6. Anticipated Volume / Units per Year: VARIES or One Time

6. Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked , I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: _____ Title: PRESIDENT

Generator's Signature: _____ Date: 01.15.15

GENERATOR'S ORDER INSTRUCTIONS: PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

1. GRAB 2. END of process
 SAMPLING METHOD COLLECTION POINT

3. _____
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. _____ Preservation: Yes No

5. CHAIN OF CUSTODY Each person who handles the sample must sign below when the sample passes from one to another.

Relinquished by:	Date	Time	Date	Time
_____	<u>01.12.15</u>	_____	<u>01.12.15</u>	<u>1100</u>



SHALEWATER SOLUTIONS

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TRANSFORMING THE FUTURE OF WATER RESOURCES™



WELCOME! WE AT SHALEWATER INVITE YOU TO
WATCH THE VIDEO ABOVE TO LEARN MORE ABOUT

OUR BUSINESS STRATEGIES AND OUR NEW TECHNOLOGICAL INNOVATIONS.

SERVICES

Shalewater Solutions specializes in water recycling, water transfer, water logistics, resource allocation, and optimizing delivery to and from multiple pools, pits and pads to reduce transport expenses. Shalewater is able to identify the most effective water strategies to reduce wasteful practices, eliminate inefficient methods and increase overall operational performance. Our water management services deliver the most cost effective solution for every situation.

SERVICES

Flowback and Produced Water Recycling Programs

Shalewater Solutions customizes each recycling program to address the specific needs of our partners based on water quality needs and the logistical requirements of the frac schedule. Shalewater is able to stay ahead of the most aggressive frac schedules by properly sizing the throughput of its treatment systems based on the customers needs, resulting in increased efficiency. Shalewater's treatment systems are mobile

RECENT NEWS

Not all shale is created equal, and the same is true of water treatment

3 MONTHS AGO

New Shalewater Treatment Trailer

11 MONTHS AGO

and can be set up on location, minimizing trucking costs associated with flowback hauling.



Water Withdrawn:	980 BBLs
Trucking Spend:	\$2,178.00
TED for Location:	0.0021
WATER	
	

Water Transfer Services

Shalewater Solutions provides the full complement of water transfer services. Our projects begin with planning functions including obtaining right of way, permitting, environmental concerns, and project design engineering. Shalewater then provides all service aspects including fusion of HDPE pipe from 4" to 24" and greater, equipment rental and installation, and pumping services.

Fluid Logistics Management

Shalewater Solutions' consultants leverage our technology solutions to optimize the operational and logistical challenges involved in recycling, transporting and transferring millions of barrels of fluids required for an aggressive frack schedule. Shalewater identifies and ranks hauling companies based

There's an App for That: How Mobile Technologies are changing the Oil and Gas Industry

12 MONTHS AGO

Shalewater Treatment Reaches the 8 Million Mark

12 MONTHS AGO



Shalewater Treatment hits the 6 million mark

A YEAR AGO

on pricing and safety records, resulting in fewer accidents and lower trucking costs.

Water Tracking and Accounting Technology

Shalewater Solutions' water tracking and management technology simplifies required reporting to regulatory agencies and allows more accurate tracking of hauling hours and loads. This leads to more accurate billing and reporting, lower trucking costs, and increased efficiency for customers. Shalewater software solutions can be integrated into your accounts payable, streamlining the billing process and often eliminating the need for paper manifests.

Central Water Facility Permitting, Construction, and Management

Shalewater has designed, permitted, constructed, and managed centralized water facilities consisting of treatment systems, residual fluids pits, and freshwater impoundments in West Virginia, Ohio, and

iPhone Application

A YEAR AGO

Shalewater Solutions Strategic Partnership with Shale Staffing

A YEAR AGO

Shalewater Solutions Delivers 20,000 bbl/day Treatment Unit

2 YEARS AGO

3rd Shale Play Water Management - Utica & Marcellus

2 YEARS AGO

Pennsylvania. Centralizing flowback and produced water treatment operations to service multiple well locations can be more cost effective when operations are concentrated in a geographical area.

**For answers to your questions or to schedule an appointment,
contact us today!**

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/12/15
Receiving ID#	[REDACTED]
Manifest# Line:	[REDACTED]
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	[REDACTED]
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

ANALYSIS INFORMATION		CHEMICAL ANALYSIS	
Compatible? (RT#) *	Yes <input type="radio"/> No <input checked="" type="radio"/>	Barium	11854 mg/L
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	10115 mg/L
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	< 10 mg/L
Flash Point (°F)	> 140	Magnesium	9986 mg/L
pH (S.U.)	8.2	Sodium Chloride	768 mg/L
Cyanides? (mg/L)	< 30	Bicarbonate	10.5 mg/L
Sulfides? (ppm)	< 200	Carbonate	< 0.1 mg/L
Specific Gravity	1.08	TDS	46.49
Physical Description	liquid	Resistivity	10.3 Ω
Stream Consistency	Yes <input type="radio"/> No <input checked="" type="radio"/>	Sulfate	1.1 mg/L
Oil in Sample	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Temperature	63°F		
Conductivity	85.0 mS		
% Solids	71.4		
Turbidity	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Color (visual)	Brown		
TSS (%)	25.0		
Radiation Screen (as needed)	Negative		
Lab Signature	[Signature]		

* Soluble in water

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

Profile # 020570

GENERATOR INFORMATION

Name: [REDACTED] USEPA ID # _____
 Facility Address: [REDACTED] SIC/NAICS Code: _____ State Code: _____
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]
 Contact: _____ Title: _____ Phone: () _____ Fax: () _____

BILLING INFORMATION

Company Name: [REDACTED] SAME AS ABOVE
 Address: [REDACTED]
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]
 Attention: [REDACTED] Phone: [REDACTED] Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:
SHALE WATER SOLUTION
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
See Attached

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: 022L

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input checked="" type="checkbox"/> > 5%	Layers: <input checked="" type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other _____	<i>acceptable</i> 01.16.15
--	---	---	---	-----------------------------------

pH: NA ≤ 2 2 - 4 4 - 6 6 - 8 8 - 10 10 - 12.5 ≥ 12.5

Liquid Flash Point: <73°F 73 - 100°F 101 - 140°F 141 - 200°F >200°F None Closed Cup Open Cup

VOC CONCENTRATION - ≤ 1 ppm PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT >= 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Water	99	0			
Trace Organics	1 ppm	0			
Solids	11.4	0			

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge-provide backup

Lab Analysis Generator Knowledge TCLP TOTAL

Not Present		Concentration	Not Present		Concentration				
PCB	<input checked="" type="checkbox"/>	_____ ppm	Aromatic Amine	<input checked="" type="checkbox"/>	_____ ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	< 5 ppm
Dioxins	<input checked="" type="checkbox"/>	_____ ppm	Pesticides	<input checked="" type="checkbox"/>	_____ ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	<100 ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	_____ ppm	Rodenticides	<input checked="" type="checkbox"/>	_____ ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	< 1 ppm
Cyanides Total	<input checked="" type="checkbox"/>	_____ ppm	Fungicides	<input checked="" type="checkbox"/>	_____ ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	< 5 ppm
Sulfides Reactive	<input checked="" type="checkbox"/>	_____ ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/>	< 5 ppm
Sulfides Total	<input checked="" type="checkbox"/>	_____ ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	< 0.2 ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/>	< 1 ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/>	< 5 ppm

TCLP Organics D012 - D043 above regulatory limits: Present Not Present

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

- Radioactive
- Water Reactive
- Oxidizer
- Shock Sensitive
- Reactive (other)
- DOT Explosives
- NIOSH Human-Positive Carcinogens
- NESHAP Wastes (Benzene, etc.)
- Biological
- None Apply

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds _____
- DOT Shipping Name Non-Regulated Wastewater Hazard Class _____ UN/NA _____
PG _____ ERG _____ Hazardous Constituents for "n.o.s." _____
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: 2 6. Anticipated Volume / Units per Year: VARIES or One Time
- Special Handling Requirements including PPE: _____

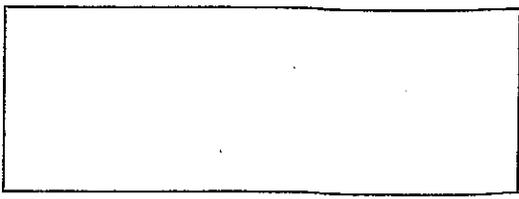
CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked , I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: _____ Title: _____
Generator's Signature: _____ Date: 01.15.15

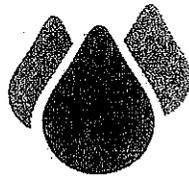
GENERATOR'S WASTE RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

- GRAB SAMPLING METHOD
- END of process COLLECTION POINT
- SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER _____
- Sample No. _____ Preservation: Yes No



5. CHAIN OF CUSTODY Each person who handles the sample must sign below when the sample passes from one to another.

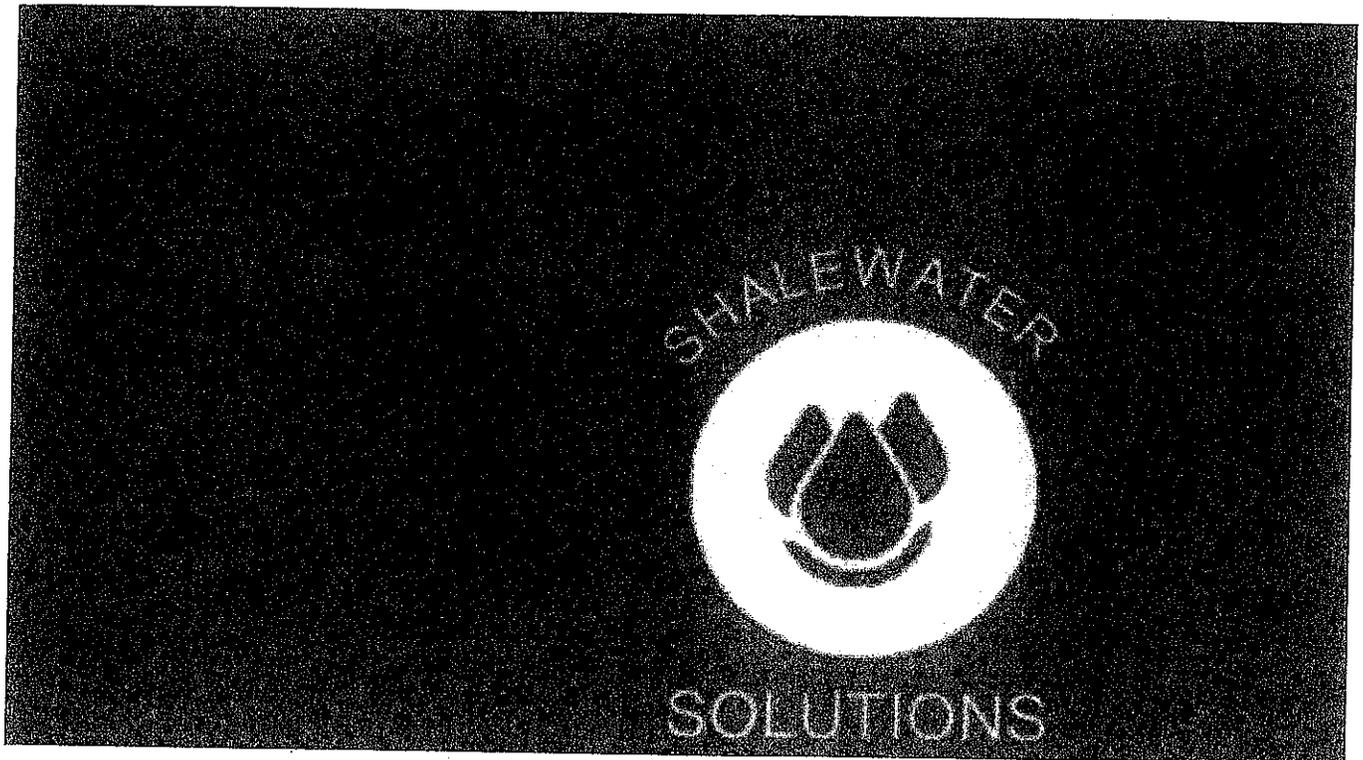
	Date	Time
	<u>01.12.15</u>	<u>1100</u>



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SERVICES

Shalewater Solutions specializes in water recycling, water transfer, water logistics, resource allocation, and optimizing delivery to and from multiple pools, pits and pads to reduce transport expenses. Shalewater is able to identify the most effective water strategies to reduce wasteful practices, eliminate inefficient methods and increase overall operational performance. Our water management services deliver the most cost effective solution for every situation.

SERVICES

Flowback and Produced Water Recycling Programs

Shalewater Solutions customizes each recycling program to address the specific needs of our partners based on water quality needs and the logistical requirements of the frac schedule. Shalewater is able to stay ahead of the most aggressive frac schedules by properly sizing the throughput of its treatment systems based on the customers needs, resulting in increased efficiency. Shalewater's treatment systems are mobile

RECENT NEWS

Not all shale is created equal, and the same is true of water treatment

3 MONTHS AGO

New Shalewater Treatment Trailer

11 MONTHS AGO

and can be set up on location, minimizing trucking costs associated with flowback hauling.

Water Transfer Services

Shalewater Solutions provides the full complement of water transfer services. Our projects begin with planning functions including obtaining right of way, permitting, environmental concerns, and project design engineering. Shalewater then provides all service aspects including fusion of HDPE pipe from 4" to 24" and greater, equipment rental and installation, and pumping services.

Fluid Logistics Management

Shalewater Solutions' consultants leverage our technology solutions to optimize the operational and logistical challenges involved in recycling, transporting and transferring millions of barrels of fluids required for an aggressive frack schedule. Shalewater identifies and ranks hauling companies based

Water Withdrawn:	980 BBLs
Trucking Spend:	\$2,178.00
TER for Location:	0.0021
WATER	

There's an App for That: How Mobile Technologies are changing the Oil and Gas Industry

12 MONTHS AGO

Shalewater Treatment Reaches the 8 Million Mark

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Shalewater Treatment hits the 6 million mark

A YEAR AGO

on pricing and safety records, resulting in fewer accidents and lower trucking costs.

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Shalewater has designed, permitted, constructed, and managed centralized water facilities consisting of treatment systems, residual fluids pits, and freshwater impoundments in West Virginia, Ohio, and

iPhone Application

A YEAR AGO

Shalewater Solutions Strategic Partnership with Shale Staffing

A YEAR AGO

Shalewater Solutions Delivers 20,000 bbl/day Treatment Unit

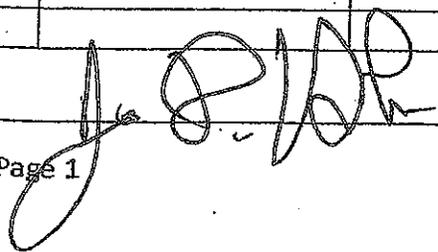
2 YEARS AGO

3rd Shale Play Water Management - Utica & Marcellus

2 YEARS AGO

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/12/15
Receiving ID#	[REDACTED]
Manifest# Line:	[REDACTED]
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	[REDACTED]
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

WASTE CHARACTERISTICS		OTHER ELEMENTS	
Compatible? (RT#)	<input checked="" type="radio"/> Yes No	Barium	8845 mg/L
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	11239 mg/L
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	< 10 mg/L
Flash Point (°F)	> 140	Magnesium	10073 mg/L
pH (S.U.)	8.2	Sodium Chloride	132 mg/L
Cyanides? (mg/L)	< 30	Bicarbonate	11.5 mg/L
Sulfides? (ppm)	< 200	Carbonate	< 0.1 mg/L
Specific Gravity	1.10	TDS	37.17
Physical Description	Liquid	Resistivity	9.2 Ω
Stream Consistency	Yes <input checked="" type="radio"/> No	Sulfate	6.5 mg/L
Oil in Sample	Yes <input checked="" type="radio"/> No		
Temperature	64°F		
Conductivity	92.0 μS		
% Solids	52.1		
Turbidity	<input checked="" type="radio"/> Yes No		
Color (visual)	Brown		
TSS (%)	15.0		
Radiation Screen (as needed)	Negative		
Lab Signature			

GENERATOR INFORMATION

Name: [REDACTED] PA ID # _____
 Facility: [REDACTED] AICS Code: _____ State Code: _____
 City: [REDACTED] Zip Code: [REDACTED]
 Contact: _____ Title: _____ Phone: () _____ Fax: () _____

BILLING INFORMATION

SAME AS ABOVE

Company Name: [REDACTED]
 Address: [REDACTED]
 City: _____ State: _____ Zip Code: [REDACTED]
 Attention: _____ Phone: [REDACTED] Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:

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Process Generating Waste (Please be specific, incomplete information may delay the approval process):

See Attached

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: 022L

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input checked="" type="checkbox"/> > 5%	Layers: <input checked="" type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other _____	acceptable 01/16/15
--	---	---	---	------------------------

pH: NA ≤ 2 2-4 4-6 6-8 8-10 10-12.5 ≥ 12.5

Liquid Flash Point: <73°F 73-100°F 101-140°F 141-200°F >200°F None Closed Cup Open Cup

VOC CONCENTRATION - ≤ 1 ppm PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT ≥ 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Water	99	0			%
Trace Organics	1 ppm	0			%
SOLIDS	75.4	0			%
					%
					%

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge provide backup

Lab Analysis Generator Knowledge TCLP TOTAL

	Not Present	Concentration		Not Present	Concentration						
PCB	<input checked="" type="checkbox"/>	_____ ppm	Aromatic Amine	<input checked="" type="checkbox"/>	_____ ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	< 5	ppm	_____ ppm
Dioxins	<input checked="" type="checkbox"/>	_____ ppm	Pesticides	<input checked="" type="checkbox"/>	_____ ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	< 100	ppm	_____ ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	_____ ppm	Rodenticides	<input checked="" type="checkbox"/>	_____ ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	< 1	ppm	_____ ppm
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Sulfides Reactive	<input checked="" type="checkbox"/>	_____ ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/>	< 5	ppm	_____ ppm
Sulfides Total	<input checked="" type="checkbox"/>	_____ ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	< 0.2	ppm	_____ ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/>	< 1	ppm	_____ ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/>	< 5	ppm	_____ ppm

TCLP Organics D012 - D043 above regulatory limits: Present Not Present

IS WASTE ANY OF THE FOLLOWING? At Least One Box Must Be Checked.

Radioactive Water Reactive Oxidizer Shock Sensitive Reactive (other) DOT Explosives
 NIOSH Human-Positive Carcinogens NESHAP Wastes (Benzene, etc.) Biological None Apply

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds _____
- DOT Shipping Name Non-Regulated Wastewater Hazard Class _____ UN/NA _____
PG _____ ERG _____ Hazardous Constituents for "n.o.s." _____
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: 2 6. Anticipated Volume / Units per Year: VARIES or One Time
- Special Handling Requirements including PPE: _____

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1. Grab 2. end of process
SAMPLING METHOD COLLECTION POINT

3. _____
SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. _____ Preservation: Yes No

5. CHAIN OF CUSTODY: Each person who handles the sample must sign below as the sample passes from one to another.

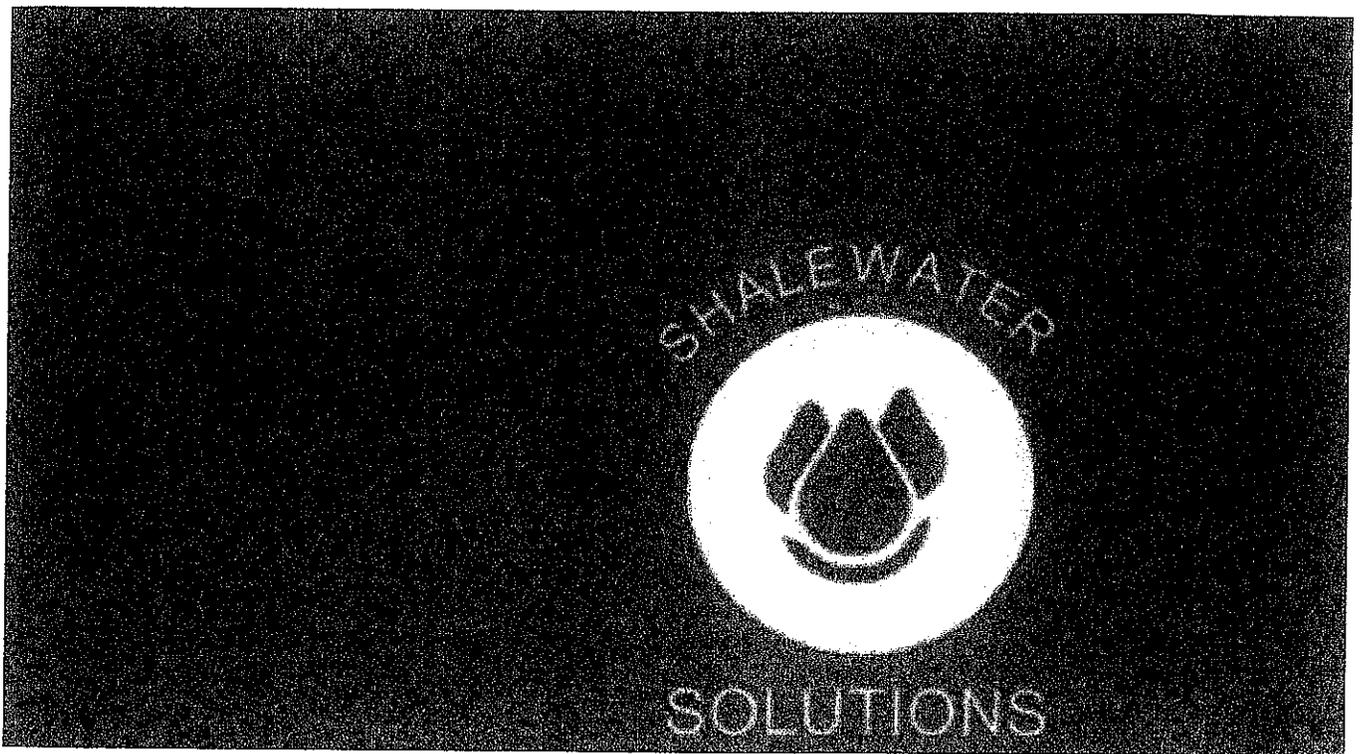
Date	Time	Date	Time
_____	_____	_____	_____
_____	_____	01.12.15	1100



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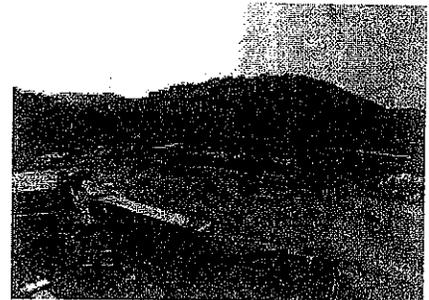
WATER

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2 YEARS AGO

3rd Shale Play Water Management - Utica & Marcellus

2 YEARS AGO

Pennsylvania. Centralizing flowback and produced water treatment operations to service multiple well locations can be more cost effective when operations are concentrated in a geographical area.

For answers to your questions or to schedule an appointment,
contact us today!