August 29, 2014

Mr. Allan Batka
United States Environmental Protection Agency
Region 5 (WU-16J)
77 West Jackson Blvd.
Chicago, Illinois 60604

Re: EGT Monthly Report (in conformance with MI-163-1W-C010 & MI-163-1W-C011)

Dear Mr. Batka:

Environmental Geo-Technologies, LLC ("EGT") hereby timely submits its ninth Monthly Report in conformance with the requirements of its two EPA UIC permits (#s MI-163-1W-C010 & MI-163-1W-C011).

EGT is providing all of the attached information in the same sequence as required by both subject permits, i.e. Part II.D.1 (a - i), Part III, Attachment A, and Part III, Attachment E.G.2 & E.I.

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.

We trust that you find this report satisfactory, however, if you have any questions or comments, please feel free to contact us.

Sincerely,

Richard J. Powals, P.E. Chief Operating Officer

cc: J. Frost (EGT), T. Athans (HH)

att.

rjp082914/EGTEPAMonthlyReport-July 2014

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR	2014
CURRENT REPORTING MONTH	July
Date (month, year) of the first injection	on into either well at the Citrin Road Facility
NOUSMBER 2013	

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
M	I-163-1W-C010,	Well #1-12	
Current Month	122,874	0	122,874
Since facility first injected			590,660
M	I-163-1W-C011, v	Well #2-12	
Current Month	2,075	0	2,075
Since facility first injected			893,104
		Lifetime Combined	1,483,764

Conversion factors
$\overline{365.25}$ days per year \div 12 months per year = 30.4375 days per month
30.4375 days per month × 1440 minutes per day = 43,830 minutes per month
Calculations Whole number of months of injection 9
lifetime number of months of injection × 43,830 minutes/month
= <u>394, 470</u> minutes of injection
Lifetime combined injected volume 1, 483, 764 ÷ 394, 470 minutes of injection
= <u>3.8</u> gpm average injection rate

WELL 1 DATA

SUMMARY OF OPERATING, MONITORING AND REPORTING REQUIREMENTS Injection Well I

	Month: July	Year: 2014		
CHARACTERISTIC	LIMITATION	MINIMUM MONITORING FREQUENCY	MINIMUM REPORTING FREQUENCY	STATUS
Injection Pressure	765 psig maximum	continuous	monthly	723 psig
Annulus Injection Pressure	100 psig minimum	continuous	monthly	105 psig
Annulus/Tubing Diff	100 psig minimum above injection pressure	continuous	monthly	Graph attached
Injection Rate (Average both wells)	166 gpm	continuous	monthly	3.8 gpm
Injection Rate (Maximum instantaneous)	270 gpm	continuous	monthly	156 gpm
Sight Glass Level		continuous	monthly	Graph attached
Annulus Fluid Loss		monthly	monthly	0.0 gal
Cumulative Volume		daily	monthly	122,874 gal
Temperature		6-hour intervals	monthly	Graph attached
Corrosion Monitoring		monthly	monthly	Report attached
Repair and Maintenance		NA .	monthly	Log attached
Toxicity Characteristic List		annually	monthly	NA
Fingerprint Analysis		per load	monthly	Sheets attached
Chemical Composition and Physical Characteristics of Injected Oilfield Brine		annually	annually	NA .
pH of Injected Fluids		continuous	monthly	Graph attached

WELL 01 Monthly Data

Date	Min	Max	Min	Max	Min	Max	Ä	Max	Min	Max	Min	Max
	Injection	Injection	nt Glass	Sight Glass	Annulus	Annulus	ctate		Flow	Flow	Differentail	Differential
	Pressure	<u>lre</u>	<u>•</u>	Level	Pressure	Pressure	Hd	됪	Rate	Rate	Pressure	Pressure
	<u>=</u>	(PSIG)		(in)	(PSIG)	(PSIG)	i		(GPM)	(GPM)	(PSIG)	(PSIG)
7/1/2014	7	723.00	21.80	25.00	00'0	1065.00	29.0	6.82	0.00	138.00	105.00	345.00
7/2/2014	0.00	66.00	23.10	23.50	219.00	363.00	0.52	0.55	0.00	0.00	180.00	306.00
7/3/2014	00.0	714.00	22.00	23.50	216.00	1050.00	0.27	1.24	0.00	156.00	183.00	333.00
7/4/2014	36.00	39.00	23.50	23.60	270.00	300.00	1.12	1.18	0.00	00.0	240.00	264.00
7/5/2014	30.00	39.00	23.40	23.50	297.00	300.00	1.15	1.21	0.00	0.00	237.00	243.00
7/6/2014	30.00	33.00	23.50	23.60	255.00	264.00	1.15	1.18	00.0	0.00	225.00	234.00
7/7/2014		720.00	22.00	23.50	240.00	1065.00	0.27	1.48	00.0	152.00	210.00	354.00
7/8/2014	75.00	720.00	21.90	23.70	285.00	1050.00	1.21	4.45	0.00	128.00	180.00	339.00
7/9/2014	00'09	720.00	21.90	23.00	270.00	1038.00	1.52	2.52	0.00	132.40	186.00	423.00
7/10/2014		717.00	22.00	23.50	267.00	999.00	1.64	2.73	0.00	37.20	276.00	303.00
7/11/2014	82.50	90.00	23.00	23.10	342.00	360.00	1.64	1.70	0.00	0.00	255.00	279.00
7/12/2014	75.00	81.00	23.10	23.20	333.00	345.00	1.58	1.61	0.00	0.00	246.00	270.00
7/13/2014	81.00	84.00	23.10	23.20	330.00	336.00	1.58	1.61	0.00	0.00	255.00	261.00
7/14/2014	75.00	78.00	23.10	23.20	330.00	333.00	1.58	1.67	00.00	0.00	255.00	258.00
7/15/2014	81.00	84.00	23.10	23.20	327.00	330.00	1.64	1.70	0.00	00.0	249.00	255.00
7/16/2014	120.00	564.00	19.00	23.80	0000	00 278	62'0	8.03	0.00	0.00	000	525.00
7/17/2014	127.50	00.099	18.30	22.40	00/0	= (10.0)	00.0	7.45	0.00	3,00	- 000	633.00
7/18/2014		717.00	18.00	22.00	00'0	000	00.00	7.58	00'0	000	000	00'069
7/19/2014		150.00	19.10	21.50	000	08/6	0.00	7.21	0.00		=000	123.00
7/20/2014	150.00	150.00	20.00	20.00	00'0	10000	00.0	00.00	00.00	000	000	120.00
7/21/2014	150.00	573.00	19.00	20.00	600	70070	0.00	0.67	00.0	00'0	00'0	543.00
7/22/2014	82.50	270.00	19.30	22.15	= 00 O = 4	1000	00.0	00.0	00'0	00'0	000	240.00
7/23/2014	00'0	147.00	23.30	23.30	195.00	990.00	0.00	1.82	00.00	0.00	195.00	288.00
7/24/2014	00.0	0.00	23.30	23.40	195.00	204.00	1.18	1.52	0.00	00.0	192.00	198.00
7/25/2014	00.0	714.00	22.00	23.80	195.00	1023.00	1.18	1.61	00.00	120.00	195.00	330.00
7/26/2014	00.00	0.00	23.40	23.40	210.00	225.00	1.45	1.48	00.0	0.00	210.00	225.00
7/27/2014	00.0	0.00	23.40	23.50	204.00	210.00	1.39	1.45	00'0	0.00	198.00	210.00
7/28/2014		714.00	22.00	23.80	204.00	1014.00	1.21	4.09	0.00	100.00	204.00	309.00
7/29/2014		0.00	23.30	23.30	228.00	240.00	2.21	3.21	0.00	0.00	234.00	240.00
7/30/2014		00:969	21.80	23.20	231.00	1029.00	2.79	4.85	0.00	102.00	219.00	345.00
7/31/2014	0.00	711.00	21.80	23.90	189.00	1026.00	2.21	4.73	0.00	112.00	186.00	360.00

DATA DESCRIPTION

Lines 7/17-22/14 on Well 01 Monthly Data sheet, are displaying zero data for the annulus pressure and injection rate parameters. EGT personnel discussed the zero data reading for these dates and determined that the chart recorder failed to function for that week. The circle charts are changed out every Wednesday morning and the zero data readings are from Wednesday to Wednesday through the week of the 16th. The zero data for those parameters over that period coincides perfectly with the circle chart change out. We cannot determine if the issue with the circle chart was mechanical, or electrical, however, all functions of the circle charts have worked for the weeks post and prior.

The gauges that the circle charts are supposed to record, annulus pressure and injection flow, were working normally during that week since EGT did inject throughout the week of the 16th, with normal operating conditions and never experienced an alarm condition or shut down condition. EGT personnel are checking the circle charts daily to preclude this anomaly from reoccurrence as much as possible.

Circle Chart Index

Environmental Geo-Technologies, LLC 28470 Citrin Drive Romulus, MI 48174

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen - Well 1 Annulus Pressure

Channel #3

Green Pen - Well 1 Flow Rate

Channel #4

Black Pen - Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen - Well 2 Injection Pressure

Channel #2

Red Pen - Well 2 Annulus Pressure

Channel #3

Green Pen - Well 2 Flow Rate

Channel #4

Black Pen - Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen - Injection pH Well 1 & 2

Channel #2

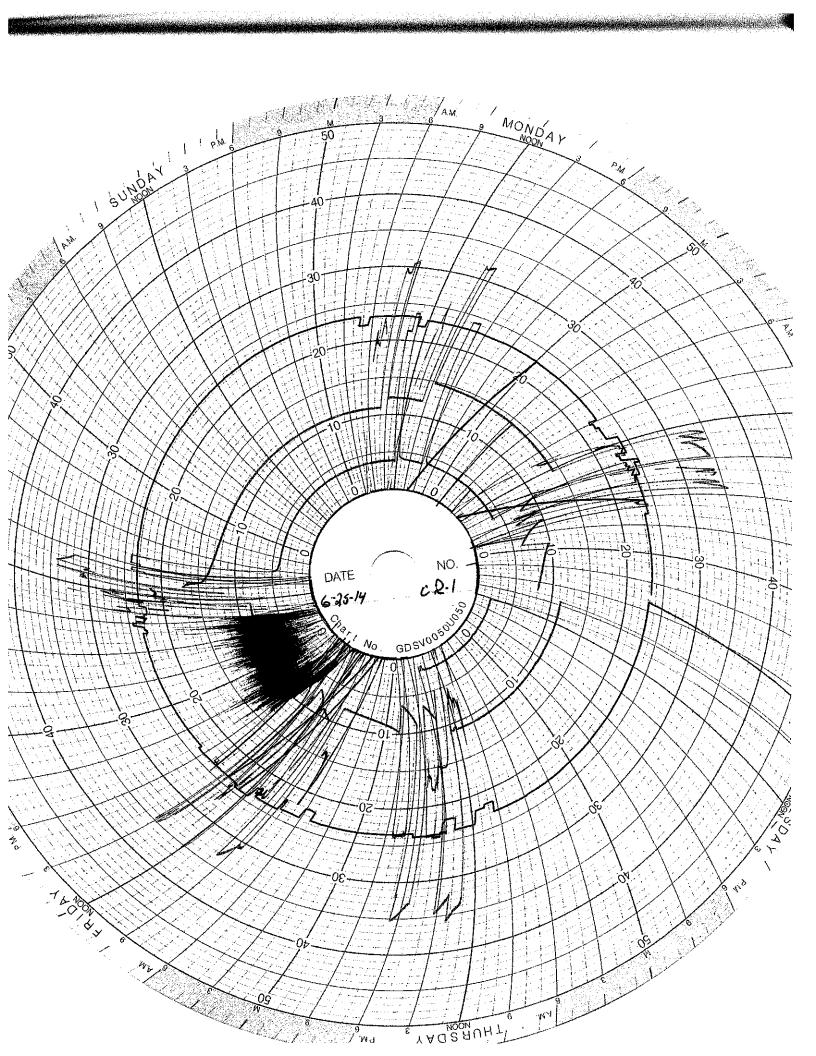
Red Pen - Well 1 Monthly Volume

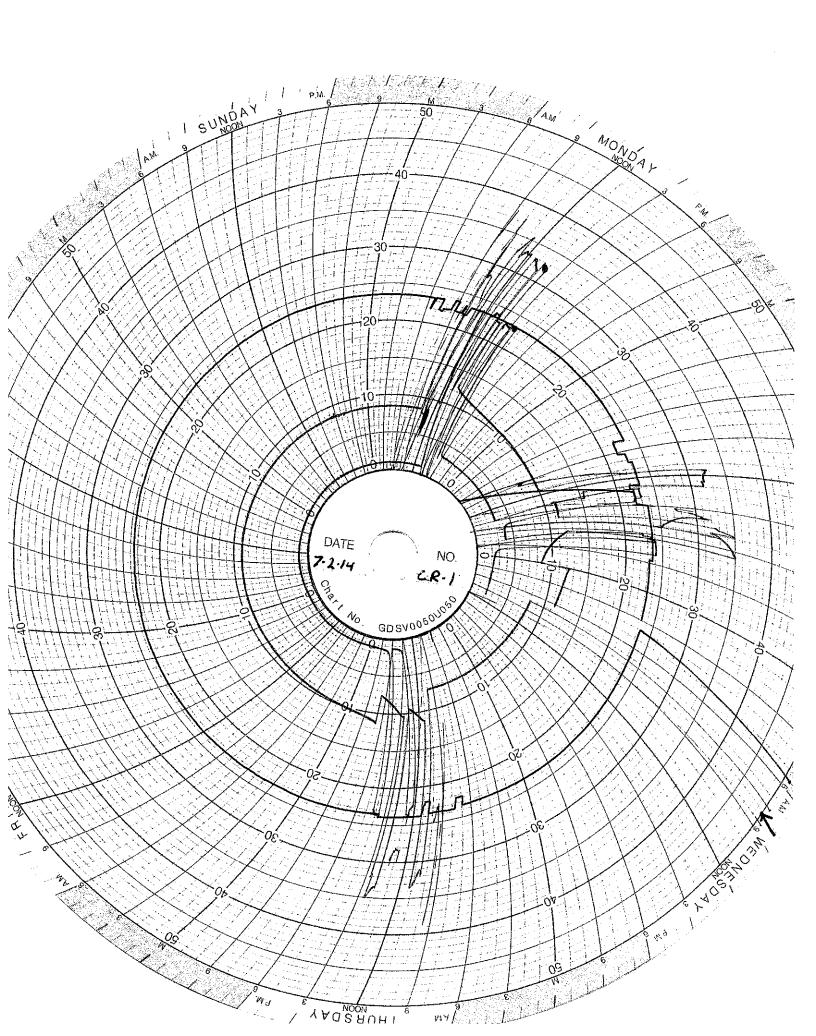
Channel #3

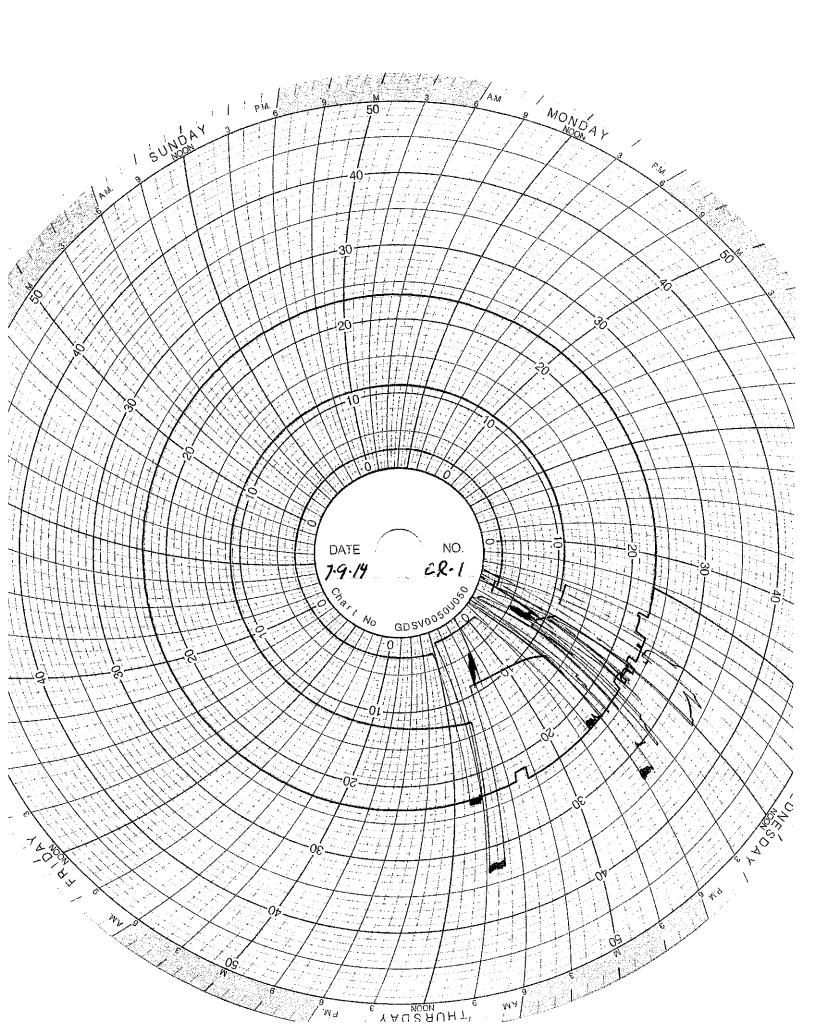
Green Pen - Well 2 Monthly Volume

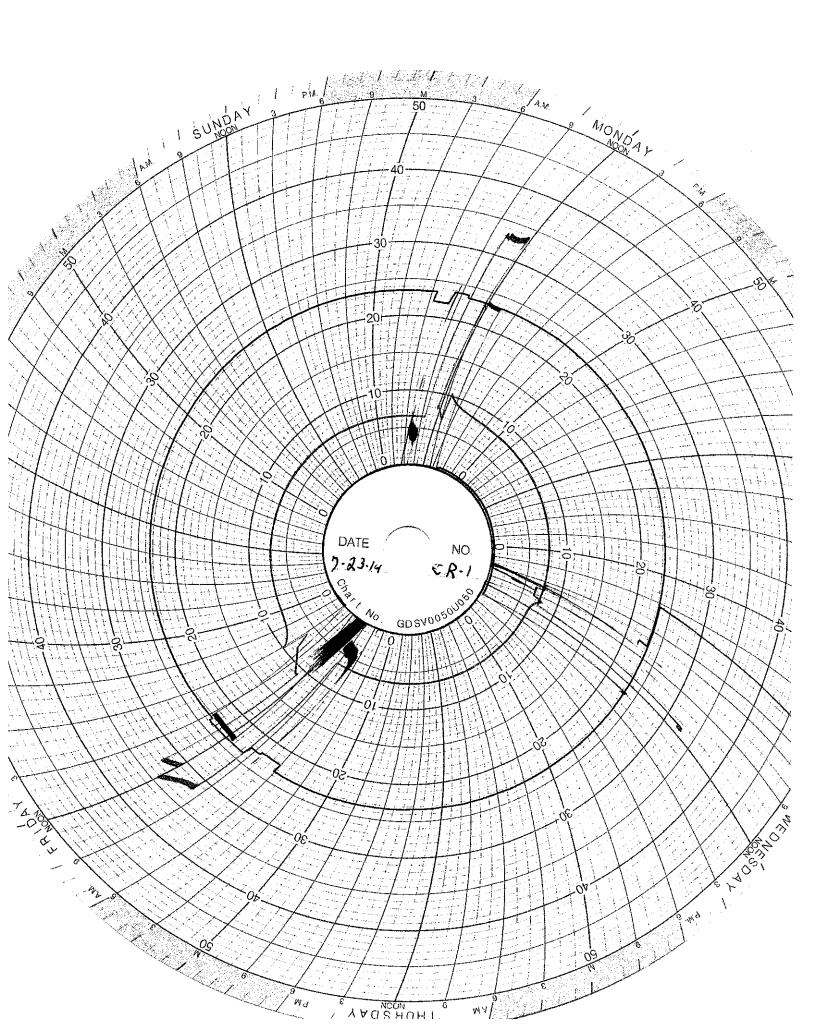
Channel #4

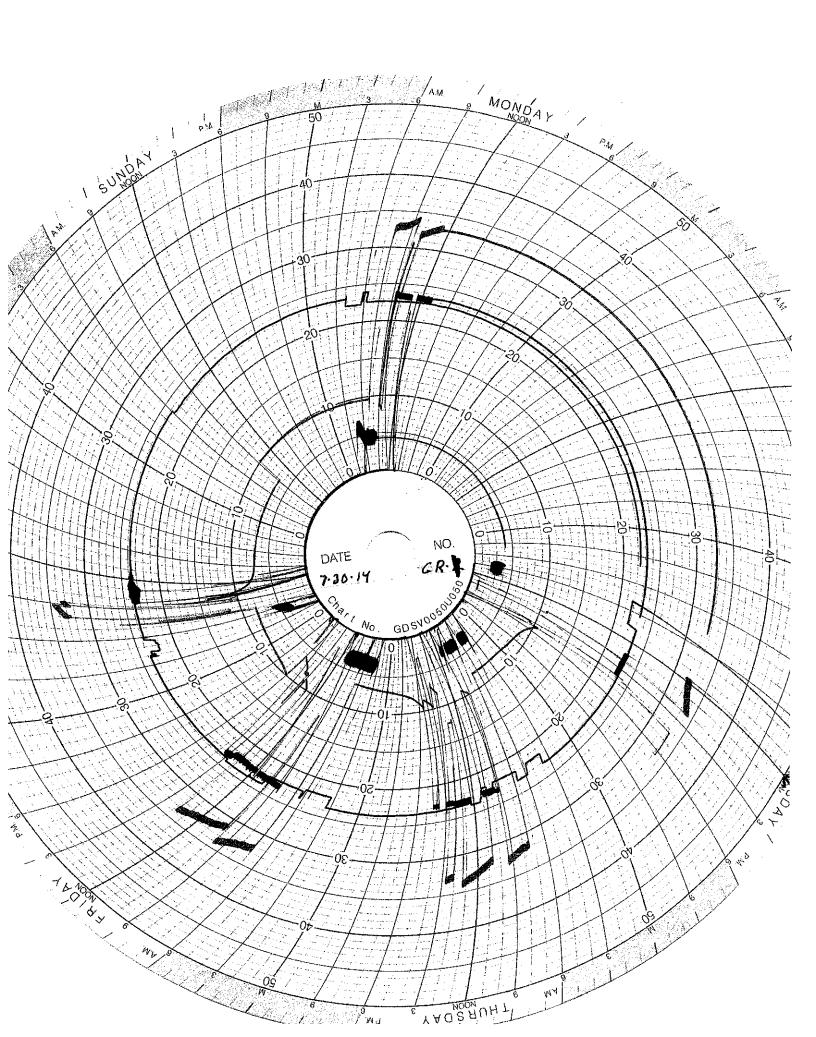
Black Pen - Temperature

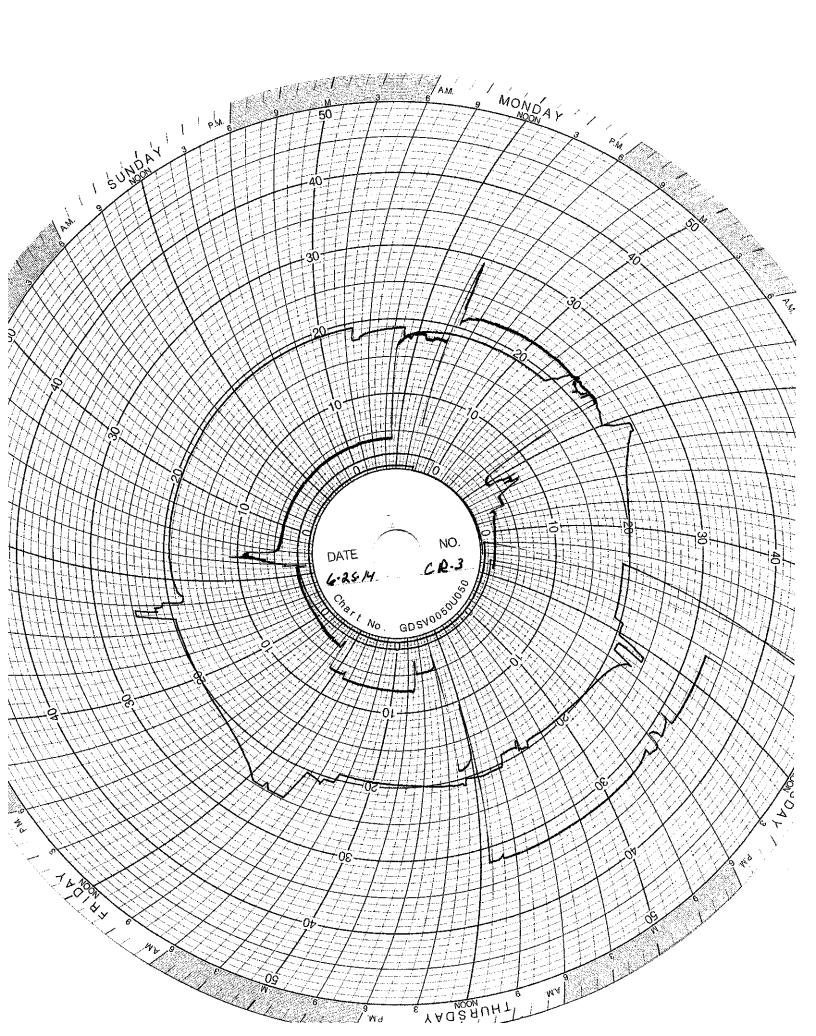


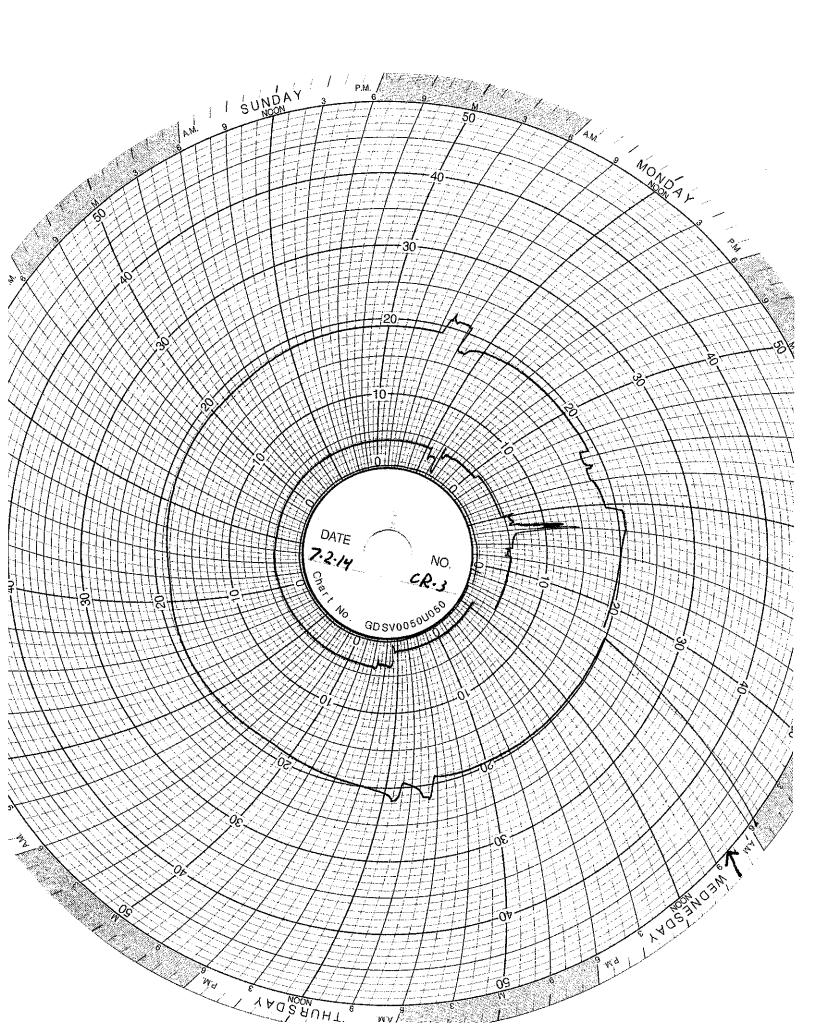


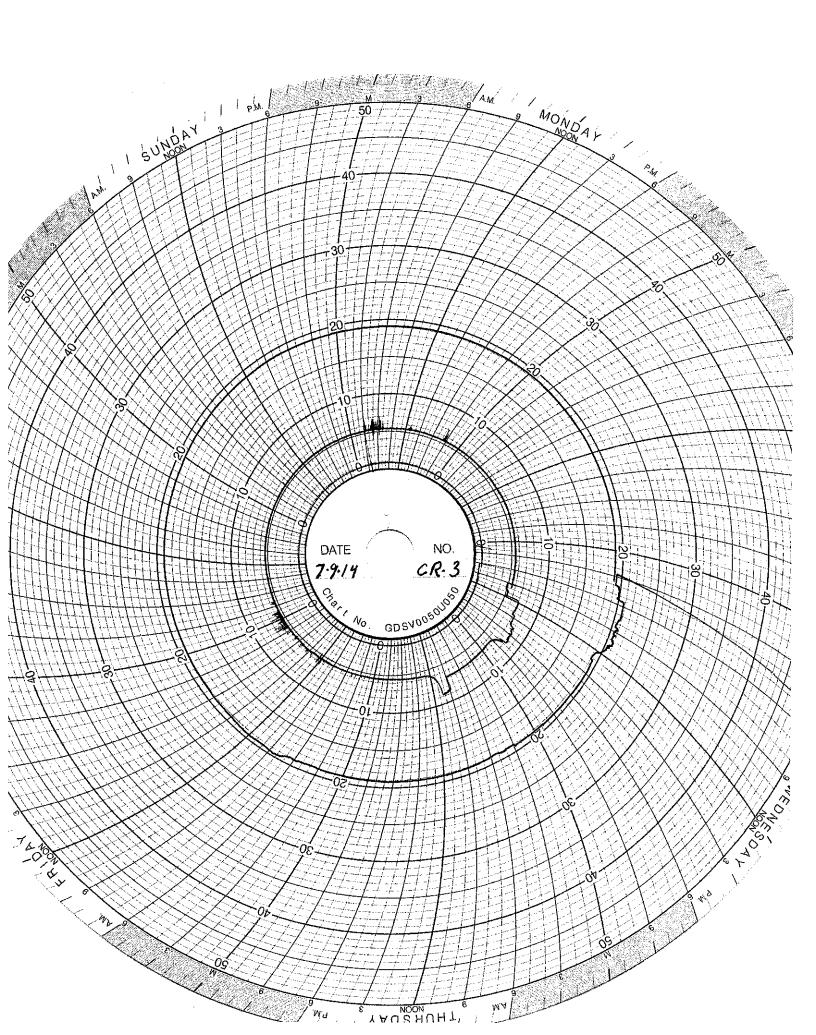


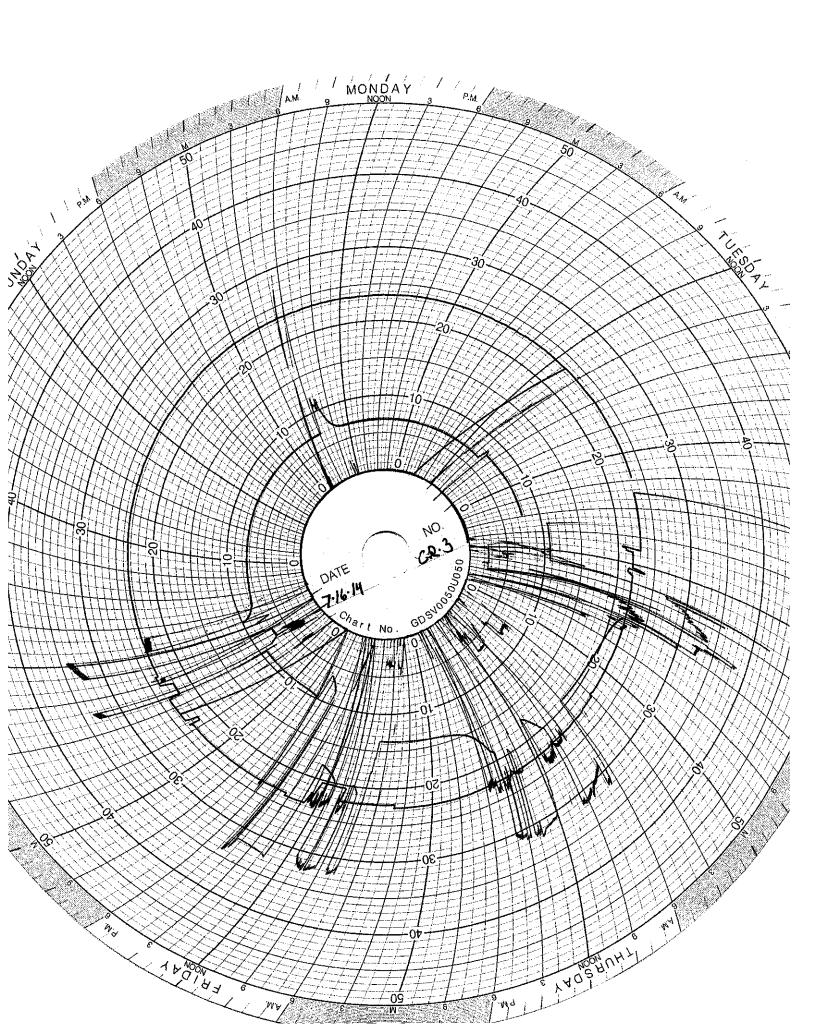


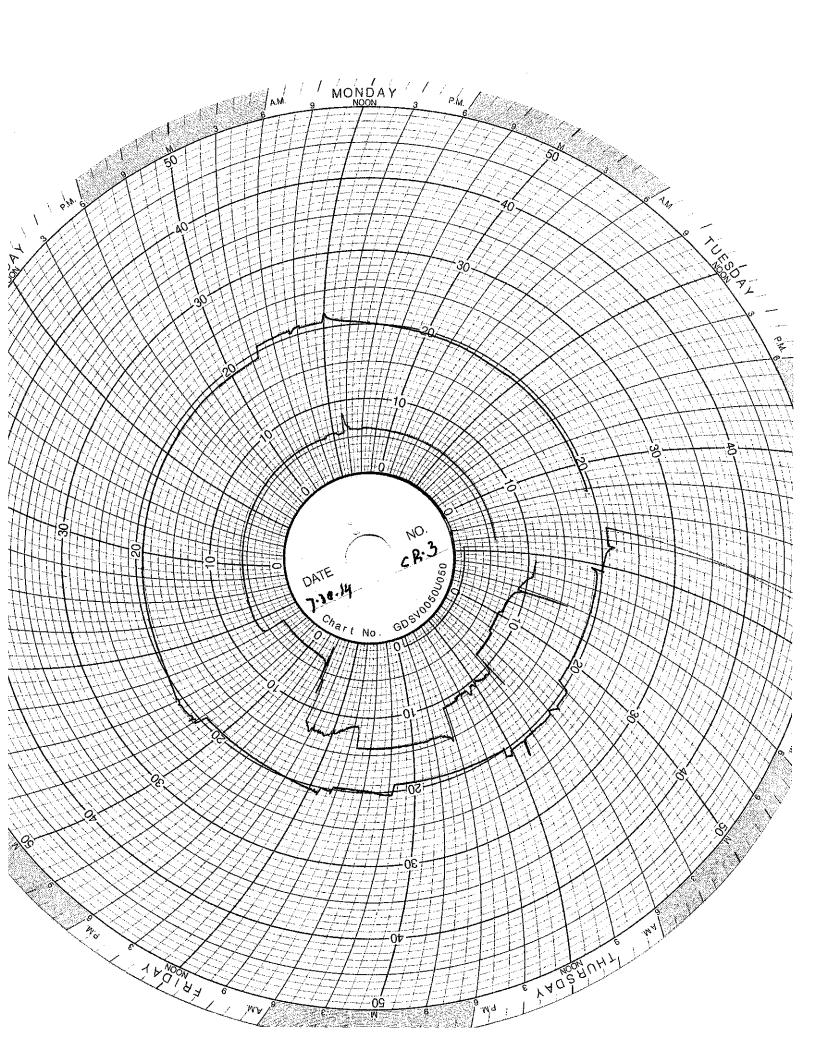












WELL 2 DATA

SUMMARY OF OPERATING, MONITORING AND REPORTING REQUIREMENTS Injection Well II

	Month: July	Year: 2014		
CHARACTERISTIC	LIMITATION	MINIMUM MONITORING FREQUENCY	MINIMUM REPORTING FREQUENCY	STATUS
Injection Pressure	765 psig maximum	continuous	monthly	720 psig
Annulus Injection Pressure	100 psig minimum	continuous	monthly	216 psig
Annulus/Tubing Diff	100 psig minimum above injection pressure	continuous	monthly	Graph attached
Injection Rate (Average both wells)	166 gpm	continuous	monthly	3.8 gpm
Injection Rate (Maximum instantaneous)	270 gpm	continuous	monthly	50 gpm
Sight Glass Level		continuous	monthly	Graph attached
Annulus Fluid Loss		monthly	monthly	0.0 gal
Cumulative Volume		daily	monthly	2,075 gal
Temperature		6-hour intervals	monthly	Graph attached
Corrosion Monitoring		monthly	monthly	Report attached
Repair and Maintenance		NA	monthly	Log attached
Toxicity Characteristic List		annually	monthly	NA
Fingerprint Analysis		per load	monthly	Sheets attached
Chemical Composition and Physical Characteristics of Injected Oilfield Brine		annually	annually	NA
pH of Injected Fluids		continuous	monthly	Graph attached

Date	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
	Injection		Glass	Sight Glass	Annulus	Annulus	Injectate Injectate		Flow	Flow	Differentail	Differential
	Pressure	<u>e</u>	<u>ē</u>	Level	Pressure	ie.	표		Rate	Rate	Pressure	Pressure
	<u>ä</u>	(PSIG)	(in)	(in)	(PSIG)	(PSIG)			(GPM)	(GPM)	(PSIG)	(PSIG)
7/1/2014	0.00	21.00	28.00	29.10	186.00	339.00	29.0	6.82	0.00	00'0	216.00	330.00
7/2/2014		00.0	23.40	25.00	186.00	348.00	0.52	0.55	00.0	00.0	240.00	375.00
7/3/2014		00.0	24.00	24.60	240.00	285.00	0.27	1.24	0.00	0.00	267.00	330.00
7/4/2014		00.00	24.50	25.10	234.00	240.00	1.12	1.18	0.00	0.00	240.00	264.00
7/5/2014		00.00	25.00	38.00	222.00	237.00	1.15	1.21	0.00	0.00	222.00	240.00
7/6/2014	00.00	00.00	35.60	38.00	216.00	228.00	1.15	1.18	0.00	0.00	216.00	222.00
7/7/2014	0.00	00.00	34.70	35.60	213.00	225.00	0.27	1.48	0.00	0.00	216.00	222.00
7/8/2014	0.00	693.00	33.20	34.80	225.00	957.00	1.21	4.45	0.00	49.60	222.00	330.00
7/9/2014	27.00	33.00	34.00	34.00	300.00	300.00	1.52	2.52	00.0	00.00	270.00	270.00
7/10/2014		30.00	33.90	33.70	294.00	297.00	1.64	2.73	0.00	0.00	264.00	267.00
7/11/2014		30.00	33.20	33.80	291.00	300.00	1.64	1.70	00.0	0.00	261.00	267.00
7/12/2014		30.00	32.70	33.20	285.00	294.00	1.58	1.61	00.0	0.00	252.00	261.00
7/13/2014		27.00	32.20	32.80	279.00	285.00	1.58	1.61	0.00	0.00	246.00	252.00
7/14/2014	18.00	27.00	31.90	32.20	276.00	282.00	1.58	1.67	0.00	0.00	246.00	246.00
7/15/2014	21.00	30.00	31.40	31.90	276.00	285.00	1.64	1.70	0.00	0.00	246.00	246.00
7/16/2014	27.00	30.00	31.10	31.30	279.00	291.00	62'0	8.03	0.00	00'0	246.00	258.00
7/17/2014		30.00	31.00	31.10	285.00	294.00	0.00	7.45	00.0	00'0	258.00	261.00
7/18/2014		30.00	30.50	31.00	288.00	294.00	0.00	7.58	0.00	00'0	249.00	258.00
7/19/2014		27.00	30.00	31.40	276.00	285.00	0.00	7.21	0.00	00'0	252.00	255.00
7/20/2014		27.00	29.60	30.00	270.00	276.00	0.00	00.0	0.00	00.0	249.00	252.00
7/21/2014		21.00	29.20	29.50	270.00	273.00	0.00	0.67	0.00	0.00	255.00	255.00
7/22/2014	18.00	24.00	28.90	29.20	270.00	273.00	00:00	00.0	00.0	00.0	252.00	255.00
7/23/2014	18.00	30.00	28.50	28.90	273.00	273.00	0.00	1.82	0.00	00'0	246.00	252.00
7/24/2014	27.00	30.00	28.20	28.40	276.00	285.00	1.18	1.52	0.00	00.0	246.00	246.00
7/25/2014	30.00	30.00	28.00	28.20	279.00	282.00	1.18	1.61	0.00	00.00	246.00	246.00
7/26/2014	18.00	30.00	27.20	28.00	270.00	276.00	1.45	1.48	00.0	00'0	246.00	246.00
7/27/2014		21.00	26.50	27.10	270.00	270.00	1.39	1.45	00.0	00'0	246.00	255.00
7/28/2014		24.00	26.20	26.50	270.00	270.00	1.21	4.09	0.00	00'0	243.00	249.00
7/29/2014		27.00	26.00	26.20	270.00	270.00	2.21	3.21	0.00	00'0	243.00	243.00
7/30/2014	``	30.00	26.00	26.00	270.00	276.00	2.79	4.85	0.00	0.00	240.00	243.00
7/31/2014	9.00	720.00	24.20	26.00	273.00	927.00	2.21	4.73	0.00	27.20	240.00	354.00

Circle Chart Index

Environmental Geo-Technologies, LLC 28470 Citrin Drive Romulus, MI 48174

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen – Well 1 Annulus Pressure

Channel #3

Green Pen – Well 1 Flow Rate

Channel #4

Black Pen – Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen – Well 2 Injection Pressure

Channel #2

Red Pen - Well 2 Annulus Pressure

Channel #3

Green Pen - Well 2 Flow Rate

Channel #4

Black Pen - Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen – Injection pH Well 1 & 2

Channel #2

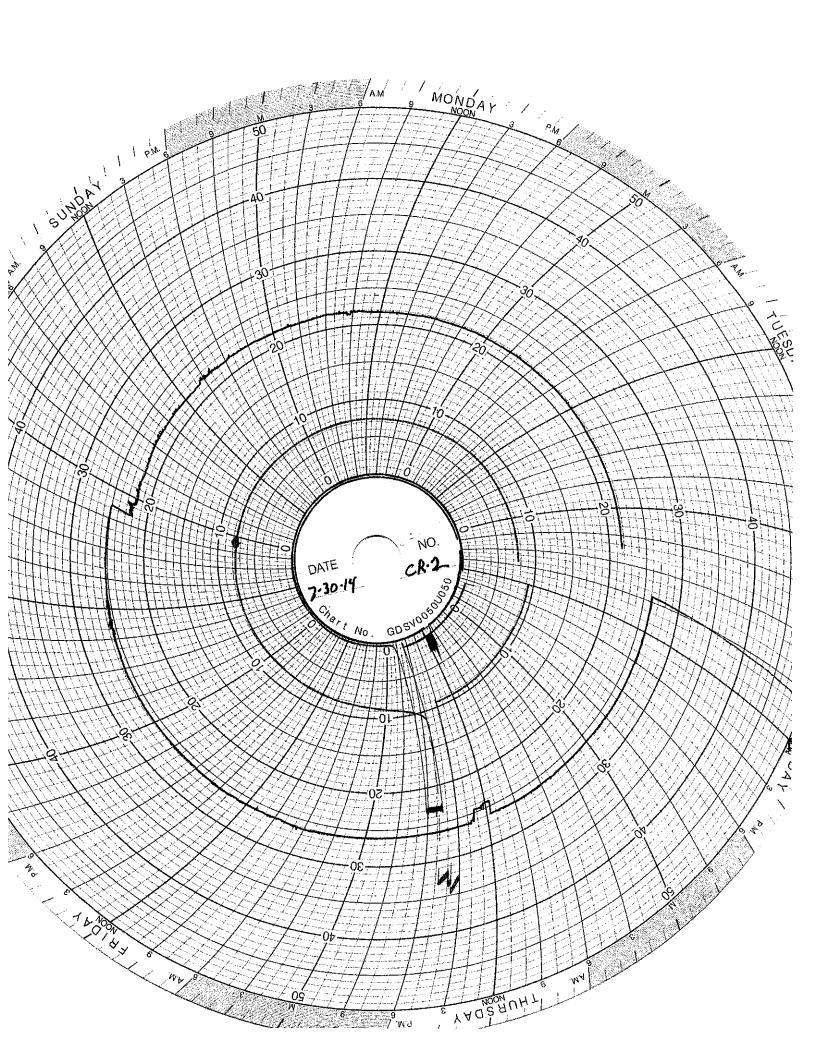
Red Pen – Well 1 Monthly Volume

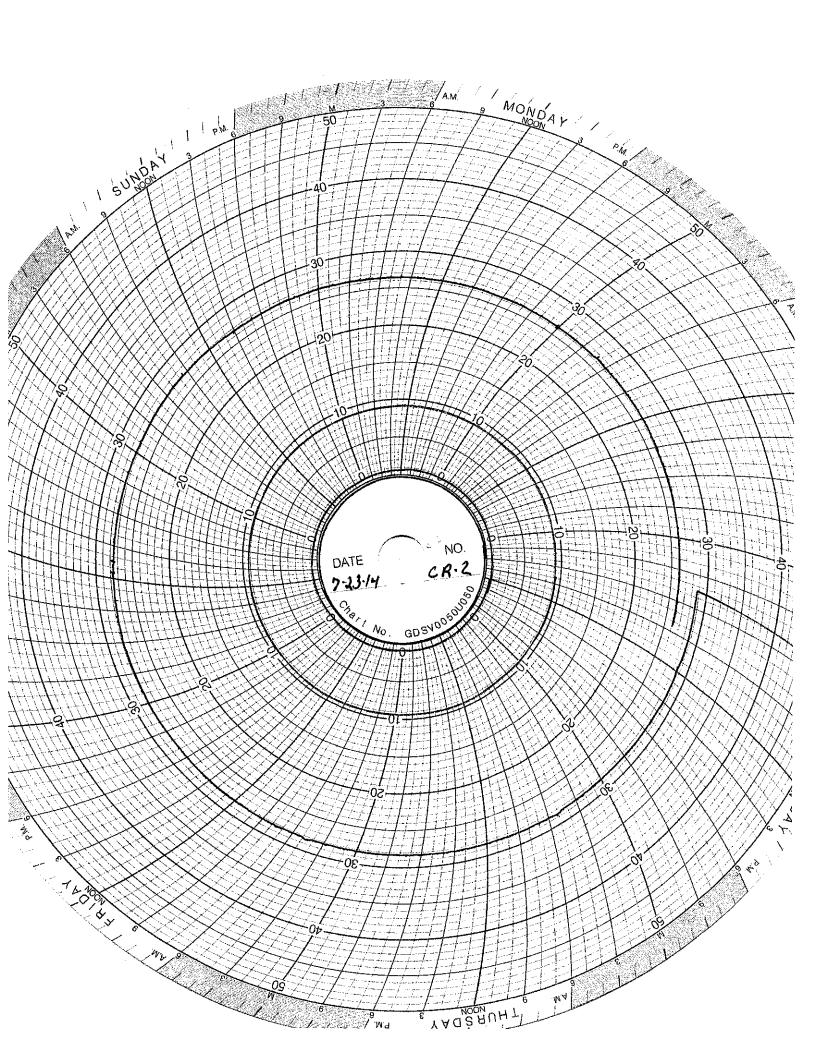
Channel #3

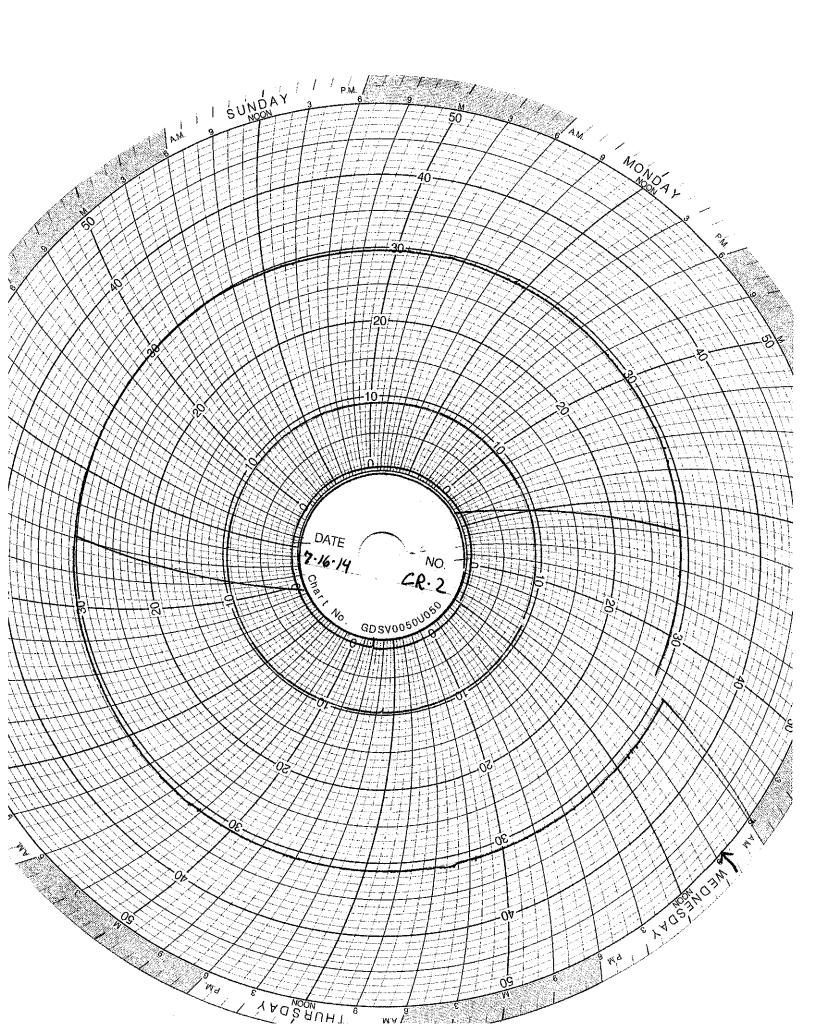
Green Pen – Well 2 Monthly Volume

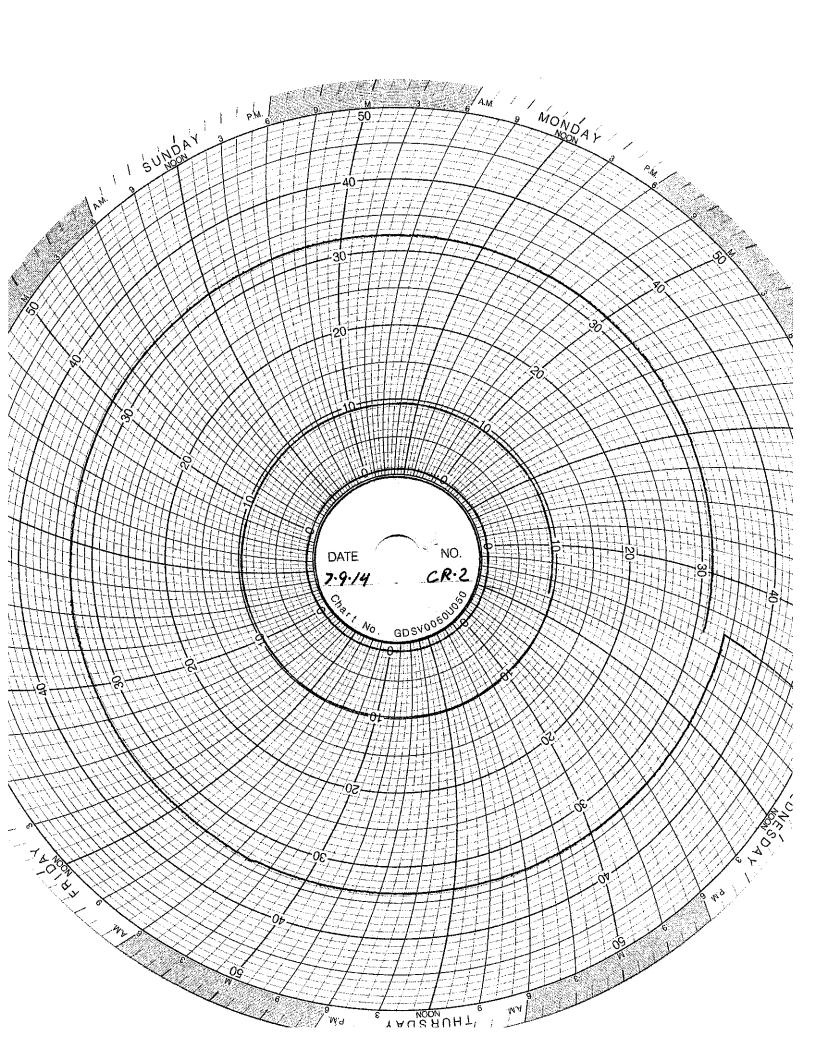
Channel #4

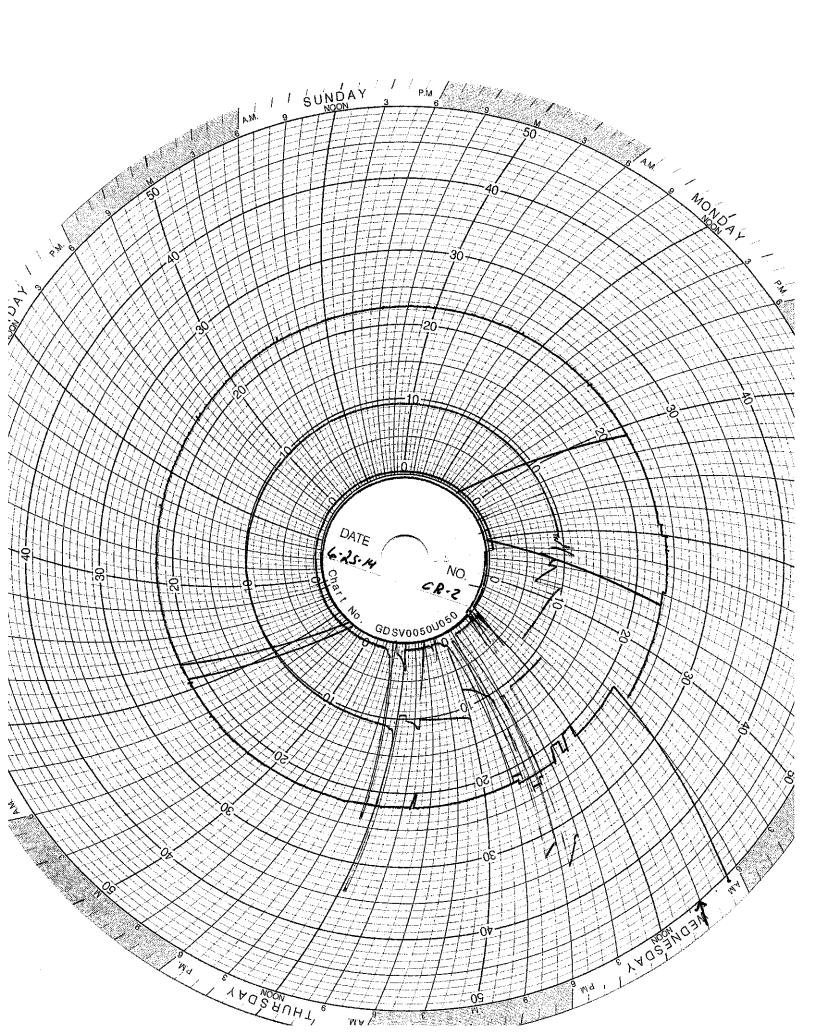
Black Pen - Temperature











MAINTENANCE LOG

UIC Monthly Maintenance Log

		Subsurface Technology, inc. was contracted to clean out well 2. Cudd was the contracted company that
7/1-2/14	Well 2 cleaning	performed the cleaning.
7/3//14	Well 2 flange tightening	Cudd tightened a loose flange on well 2 by rotating the flange onto it's threaded fitting.
		Well 2 injection pump was removed from it's mount and sent to the manufacturer for inspection. Pump
7/11/2014	Well 2 Injection pump removed	is not performing as it is designed.
7/31/2014	Pressure gauge calibration	All pressure gauges on the UIC injection system were calibrated

CORROSION MONITORING

CORROSION MONITORING COUPONS BASELINE VISUAL DESCRIPTION

November 4, 2013

Fiberglass

The fiberglass coupon is Red Box 2000 type and is 2-1/2 inches long by 1/2 inch wide and 1/4 inches thick. It is a dark orange (rust) in color with a glossy shine on one side a polished look on the opposite side and the cut edges look sanded.

Hastelloy

The hastelloy coupon is identified as C276 with serial number 1. The dimensions of the coupon are 3 inches long by 1/2 inch wide and 1/4 inch thick. The coupon is silver in color with a lightly sandblasted surface.

Stainless Steel

The stainless steel coupon is identified as 316L with serial number C1562. The dimensions of the coupon are 3 inches long by 1/2 inch wide and 1/4 inch thick. The coupon is silver in color with a lightly sandblasted surface.

CORROSION MONITORING COUPON VISUAL DESCRIPTION

Fiberglass
No pitting or cracking present on this coupon.
Hastelloy
No pitting or cracking present on this coupon.
Stainless Steel
There is some minor pitting but stainless steel is not part of the EGT well construction

May 30, 2014

GHESQUIERE PLASTIC TESTING, INC.

20450 HARPER AVENUE HARPER WOODS, MI 48225 PHONE (313) 885-3535 -FAX (313) 885-1771

Report Date: June 16, 2014 Test Date: June 13 - 16, 2014

Report #1406-78499
Performed for:
Environmental Geo-Technologies, LLC
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Hardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

Hardness

Specimen 1

85

Specimen was returned to the client June 16, 2014.

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere

President

MWG/dm

20450 HARPER AVENUE HAPPER WOODS, MI 48225 PHONE (913) 885-3535 - FAX (313) 885-1771

Report Date: February 17, 2014 Test Date: February 14 - 17, 2014

。1976年1月20日 - 1970年1月1日 - 1980年1日本大学的《大学院》

Report #1402-78036 Performed for: Environmental Gao-Tachnologies 28470 Citrin Drive Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

The many transfer and the province of the first of the same of the contract of the contract of the same of the sam Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Hardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

Hardness

Specimen 1 90

只要不知识多点,不是**的复数多数**的 非常使用的变化。这些是不是

the state of the s

We all that in room one of the late of the comment of Specimen was returned to the client on February 17, 2014 ACTOR SECTION

M. W. Chesquiere

President

MWG/dm

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TOTAL 1 PAGES

20450 HARPER AVENUE HARPER WOODS, MI 48225 PHONE (313) 885-3535 FAX (313) 885-1771

Report Date: November 15, 2013 Test Date: October 15 - November 14, 2013

Report #1310-77651
Performed for:
Environmental Geo-Technologies
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Hardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

results:

The following determination was made based upon the above test:

BARCOL HARDNESS

Hardness

Specimen 1

90

Specimen is being returned with this report for further evaluation.

HESQUIERE PHASTIC TESTING, IN

M. W. Chesquiere

President

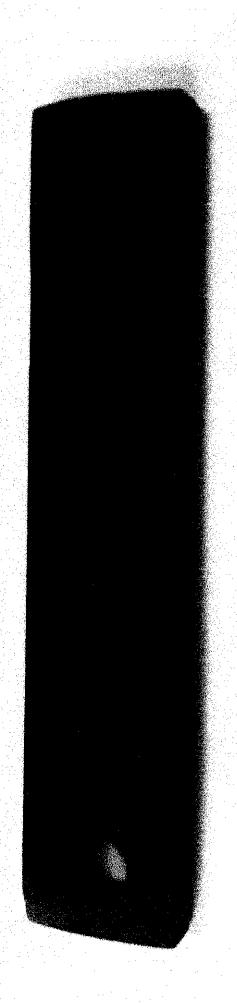
MWG/kni

CORROSION MONITORING PLAN COUPON SUMMARY

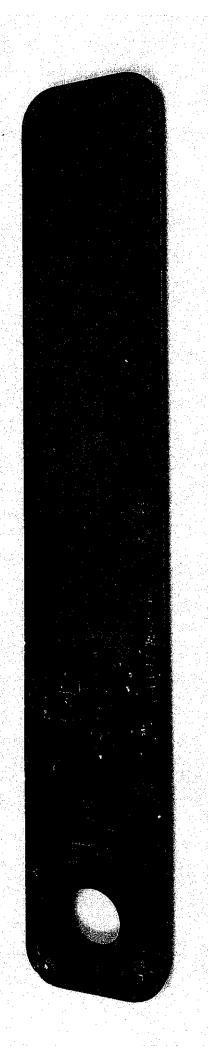
Date	Hastelloy	Stainless Steel	Fiberglass	
	(C267)	(316L)	(Redbox)	
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 g	7.196 g	
7/11/2014	13.323 g	10.304 g	7.196 g	
				·

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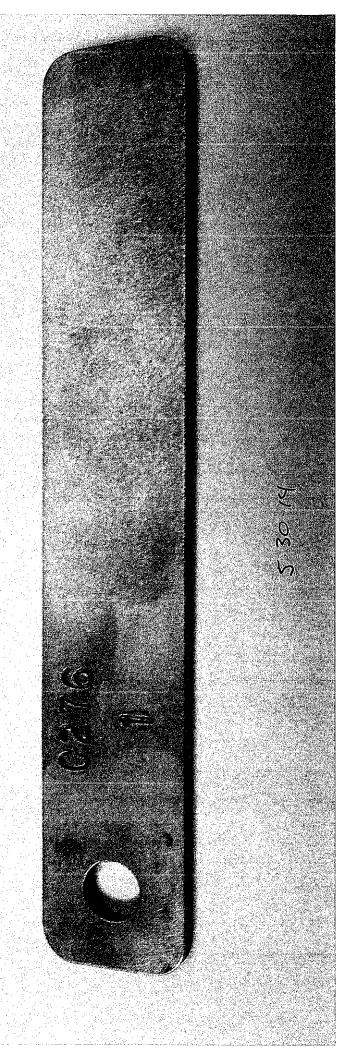
(C)



S. 50. I'K



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INJECTION FINGERPRINTS

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING INFORMATION		7.00
Date	7/1	14
Receiving ID# I 07011401		- 3 <i>3</i>
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval#		
Generator		
Client	· .	
Transporter	·	
Time in		
Time out		·
Received by	J.7.	g
Sampled by	MACK	



DEPOS SEXUPLOS SERVICIOS DE CONTRACTOR ES SE		,			j
LAB INFORMATION: All Waste Shipments:			Oilfield Baines Cally		
Compatible? (RT#)	Yes	No	Barium		
PCBs (ppm)(Oily Waste (Only)?		· · · · · · · · · · · · · · · · · · ·			
	 		Calcium		
TOC (ppm)(CC Waste Only)?	()		Total Iron		
Flash Point (°F)) 14	<u> </u>	Magnesium		
pH (S.U.)	1.2		Sodium Chloride		
Cyanides? (mg/L)			Bicarbonate		
Sulfides? (ppm)			Carbonate		
Specific Gravity	1,14	<u> </u>	TDS	7.27	<u> </u>
Physical Description			Resistivity	102	
Stream Consistency	Yes	No	Sulfate		
Oil in Sample	Yes	No.	Odnate		
Temperature	81	-			
Conductivity	143.3	3 6	<u> </u>		
% Solids	7.2	- 100			
Turbidity	Yes	No			
Color (visual)				·	
TSS (%)	40,1				
Radiation Screen (as needed)	A				
Lab Signature	1.A				

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

			The district of the second		
RECEIVING & APPROVAL FORM					
	RECEIVING INFORMATION	Section 1	1785 1884		
	Date	7/	1/14		
	Receiving ID#	1070	11402		
	Manifest# Line:				
	Land Ban Cert included	Yes	No		
	EGT Approval#	j=	•		
	Generator	El	<u> </u>		
	Client				
	Transporter				
	Time in				
	Time out				
-[Received by	J. H	n A		
-	Sampled by		4		
	LAB INFORMATION: All Waste Shipments:				



	LAB INFORMATION: All Waste Shipments:			Oilfield Brines Only:	
	Compatible? (RT#)	Yes	No	Barium	
	PCBs (ppm)(Oily Waste	103)	140	Danum	
	Only)?			Calcium	
	TOC (ppm)(CC Waste Only)?			Total Iron	
_	Flash Point (°F)	5 140		Magnesium	
	pH (S.U.)	120.	ĺ	Sodium Chloride	
	Cyanides? (mg/L)		_	Bicarbonate	
	Sulfides? (ppm)			Carbonate	-
-	Specific Gravity	1.21		TDS	35.77
	Physical Description			Resistivity	
	Stream Consistency	Yes	No	Sulfate	
1	Oil in Sample	Yes	No		·
-	Temperature		F		,
-	Conductivity	> 400)-On		
	% Solids	35.7			
	Turbidity	Yes	No		
	Color (visual)				
-	TSS (%)	(0.)			
	Radiation Screen (as needed)				
	Lab Signature			SWL	

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ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

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RECEIVING & APPRO	VAL FORM		
RECEIVING INFORMATION			
Date	7/3/14		
Receiving ID# IO703140			·
Manifest# Line:		·	
Land Ban Cert included	Yes No	5	
EGT Approval#	I A		4,
Generator	EGT		
Client			
Transporter			FAIDW/
Time in			JI I
Time out			
- Received by	J.H.		
- Sampled by	MCP		4. V
Pro 200 and a 100 for the angle of the angle of the			The state of the s
LAB INFORMATION:			
All Waste Shipments:		Oilfield Brines On	y:
Compatible? (RT#)	Yes N	o Barium	
PCBs (ppm)(Oily Waste		Ontaine	
Only)?		Calcium Tatal Iran	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	7 140	Magnesium Sodium Chloride	
pH (S.U.) Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	10.17
Physical Description	1.05	Resistivity	10.17.
Stream Consistency	Yes N		
Oil in Sample	 	0 Junate	
Temperature	78°F	0	
Conductivity	202.5		
- % Solids	10.1		
Turbidity	Yes No		
Color (visual)	1.00		
TSS (%)	<01		
Radiation Screen (as needed)	1	N	
		111	. ,
Lab Signature		10 De	
	7017		

Environmental Geo-Technologies, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/3/14
Receiving ID#	I07031402
Manifest# Line:	•
Land Ban Cert included	Yes No
EGT Approval#	A
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.お
Sampled by	DW.
	Date Receiving ID# Manifest# Line: Land Ban Cert included EGT Approval # Generator Client Transporter Time in Time out Received by



	Transport of the Language	1,818		
LAB INFORMATION:			One in the	
All Waste Shipments:	- Annual Contract Con		Oilfield Brines Only:	
Compatible? (RT#)	Yes	No	Barium	
PCBs (ppm)(Oily Waste			Calairina	
Only)?	<u> </u>		Calcium	
TOC (ppm)(CC Waste Only)?		93.	Total Iron	
Flash Point (°F)) 14	<u>-O</u>	Magnesium	
pH (S.U.)	1,0	>	Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.09	5	TDS	6.87
Physical Description			Resistivity	
Stream Consistency	Yes	No	Sulfate	9.2
Oil in Sample	Yes	No		
Temperature	70	1		•
Conductivity	136.	3		
% Solids	6.			
Turbidity	Yes	No		
Color (visual)				·
TSS (%)	40), [^	
Radiation Screen (as needed)			$1/N_{\odot}$	•
Lab Signature			KK	

REC04-01 - Page 1

Environmental Geo-Technologies, LLC.

	RECEIVING INFORMATION		
tino.	Date	7/7/1	4
	Receiving ID#	T07071	401
	Manifest# Line:		
	Land Ban Cert included	Yes	No
	EGT Approval #	A	
	Generator	EGT	o .
	Client		
	Transporter		
	Time in		
	Time out		
-	Received by	J.H.	
_	Sampled by	DAG	



All Waste Shipments:			Oilfield Brines Only:	
Compatible? (RT#)	Yes	No-	Barium	
PCBs (ppm)(Oily Waste			Calairma	
Only)?	<u> </u>		Calcium	
TOC (ppm)(CC Waste Only)?			Total Iron	
Flash Point (°F)	> 140		Magnesium	
pH (S.U.)	0.5		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.10		TDS	23.17.
Physical Description			Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	78°	1		
Conductivity	5 400.C	0 √ √	1	
% Solids	23.1			
Turbidity	Yes	No		
Color (visual)				
TSS (%)	60.)		
Radiation Screen (as needed)	A		A	*
Lab Signature		A	1 KJ Km	

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM RECEIVING INFORMATION Date Receiving ID# Manifest# Line: Land Ban Cert included No EGT Approval# E-GT Generator Client Transporter Time in Time out Received by Sampled by LAB INFORMATION All Waste Shipments: Oilfield Brines Only: Compatible? (RT# Yes> No Barium PCBs (ppm)(Oily Waste Only)? Calcium TOC (ppm)(CC Waste Only)? Total Iron Flash Point (°F) Magnesium pH (S.U.) Sodium Chloride Cyanides? (mg/L) Bicarbonate Sulfides? (ppm) Carbonate Specific Gravity 00 TDS Physical Description Resistivity Stream Consistency Yes Νo Sulfate Oil in Sample Yes No 68°F Temperature Conductivity % Solids Turbidity Yes: No Color (visual) TSS (%) Radiation Screen (as needed) Lab Signature REC04-01 - Page 1

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

NO. 1989 40. 1990 199 199 1		
(CO) H = (CO) H = H V V H K	⊯~െത	APPROVAL FORM
8787 PPP 8 . RPP 17 W # 17 W	111 - 237	
0 10 6 10-27 6 11 1027 61 11 1	21 N.O. 10 N.E.	'ALEA PER PER PER NI NI NI ALAN NI PER NI TIBER PANAN
- 4444	a comes conscio	* ************************************

		B 19-18
RECEIVING INFORMATION		
Date	7/8/	14
Receiving ID#	IO75	81402
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval #	A	
Generator	867	,
Client		
Transporter		
Time in		
Time out	10.0	
Received by	J.+)	
Sampled by	MA	



	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	J	
LAS INFORMATION. All Waste Shipments:		Öilfield Branes C	alv
Compatible? (RT#)	(Yes) N	lo Barium	
PCBs (ppm)(Oily Waste			
Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	·
pH (S.U.)	110	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.03	TDS	377
Physical Description		Resistivity	
Stream Consistency	Yes N	lo Sulfate	
Oil in Sample	Yes N	lo	
Temperature	72°F		
Conductivity	74.3~5	•	
% Solids	3.7		
Turbidity	Yes No)	
Color (visual)			
TSS (%)	<01		
Radiation Screen (as needed)		: .	
Lab Signature	IP	1220	
	REC04-01 -	Page 1	

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIMING INFORMATION		
Date	7/9/	14
Receiving ID#	10700	3/40)
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator	86	T'
Client		-
Transporter		
Time in		
Time out	<u> </u>	·
Received by	J.77.	
Sampled by	N	



		14/		
LAB INFORMATION: All Waste Shipments			Oilfraid Brines Only	
Compatible? (RT#)	(Yes)	No	Barium	
PCBs (ppm)(Oily Waste				
Only)?			Calcium	
TOC (ppm)(CC Waste Only)?			Total iron	
Flash Point (°F)	140		Magnesium	
pH (S.U.)	1.5		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.06		TDS	3,82
Physical Description			Resistivity	1000
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	7605	2-		
Conductivity	76.3.			
% Solids	3,8			
Turbidity	Yes	No		
Color (visual)				
TSS (%)	(0,1			
Radiation Screen (as needed)	,	N	Δ.	
Lab Signature		K		1

REC04-01 - Page 1

A STATE OF THE STA		Z n & n
RECEIVING INFORMATION		
Date	7/9/	14
Receiving ID#	10709	1402
Manifest# Line:	-	
Land Ban Cert included	Yes	No
EGT Approval#		7
Generator		······································
Client		
Transporter		
Time in		
Time out		
Received by	J. 7)	
Sampled by	NA	1



	7 30 - 4	17		
LABINFORMATION All Waste Shipments: "			Oitreta Brines Only	
Compatible? (RT#)	Yes	No	Barium	
PCBs (ppm)(Oily Waste				
Only)?	ļ		Calcium	
TOC (ppm)(CC Waste Only)?			Total Iron	
Flash Point (°F)		40 <u> </u>	Magnesium	·
pH (S.U.)	1.5		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)	<u> </u>		Carbonate	
Specific Gravity			TDS.	5.5
Physical Description			Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No	,	
Temperature	72,4	, <u></u>		
Conductivity	1063	5		-
% Solids	9.5			
Turbidity	Yes	No		
Color (visual)				
TSS (%)	4.0	······································	· · · · · · · · · · · · · · · · · · ·	
Radiation Screen (as needed)	A .		Λ Λ	
Lab Signature	16	2/		
	/ RECO	4-01 – Pag	re 1	

Environmental Geo-Technologies, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	的新疆景景等
Date	7/16/14
Receiving ID#	I0716140)
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	PM



		· · · · · · · · · · · · · · · · · · ·		
LABINECRMATION All Waste Shipmens		1.2	Cliffeld Brines Only	
Compatible? (RT#)	(Yes)	No	Barium	
PCBs (ppm)(Oily Waste				
Only)?			Calcium	
TOC (ppm)(CC Waste Only)?			Total Iron	
Flash Point (°F)	14	<i>D</i>	Magnesium	
pH (S.U.)	1).3		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)		-	Carbonate	
Specific Gravity	1.09		TDS	.512
Physical Description			Resistivity	<u> </u>
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	73°F	-		
Conductivity	1020	~ <		
% Solids	5.1			
Turbidity	Yes	No		
Color (visual)				-
TSS (%)	20.1	·	Λ	
Radiation Screen (as needed)		В		
Lab Signature		14	PIDL	

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Environmental Geo-Technologies, LLC.

		// 5.0.1
RECEIVING INFORMATION		
Date	7/17	114
Receiving ID#	10717	214/51
Manifest# Line:	, , , , , , , , , , , , , , , , , , ,	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client	-	
Transporter	VI	
Time in		· · · · · · · · · · · · · · · · · · ·
Time out		
Received by	J.H.	
Sampled by	DA	*



			 -	
LAB MEORMATION AND Waste Shipments:			Oilfield Brines Only	
Compatible? (RT#)	(Yes)	No	Barium	
PCBs (ppm)(Oily Waste		· - · · · · · · · · · · · · · · · · · ·		
Only)?			Calcium	
TOC (ppm)(CC Waste Only)?			Total Iron	,
Flash Point (°F)) 140		Magnesium	
pH (S.U.)	0.9		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.16		TDS	647
Physical Description			Resistivity	7,
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	7607	-		
Conductivity	128.6	~5		
% Solids	6.4		<u>, , , , , , , , , , , , , , , , , , , </u>	
Turbidity	Yes	No	, , , , , , , , , , , , , , , , , , ,	
Color (visual)				
TSS (%)	601		^	
Radiation Screen (as needed)				
Lab Signature			J. L.	
	REC04-	01 - Pag	e 1	

	ALTE I OF CIAL
RECEIVANGILAFORMATION	
Date	7/25/14
Receiving ID#	I67251401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval#	A
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J,H
Sampled by	= 1st



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LABIDIFORMATION All Waste Shipments:			Ciffield States Only	
Compatible? (RT#)	(Yes)	No	Barium	
PCBs (ppm)(Oily Waste				
Only)?			Calcium	
TOC (ppm)(CC Waste Only)?	<u> </u>		Total Iron	
Flash Point (°F)	140		Magnesium	
pH (S.U.)	0.7		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonaté	
Specific Gravity	1.19		TDS	12907
Physical Description		······································	Resistivity	W 1 /4
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	75°F			
Conductivity	138.1 ~	5		
% Solids	60,9			
Turbidity	Yes	No		
Color (visual)				
TSS (%)	10.1			
Radiation Screen (as needed)			^ /	
Lab Signature		0	Wh	
	REC04-	01 – Pag	e 1	

FRECEIVING INFORMATION		
Date	7/28/14	-
Receiving ID#	107281401	
Manifest# Line:		_
Land Ban Cert included	Yes No	
EGT Approval#		
Generator	EGT	_
Client		
Transporter		
Time in		_
Time out		
Received by	J.H.	_
Sampled by	12/41	_



CHENCH CANCELLY TO NAME AND ADDRESS OF THE PROPERTY OF THE PRO		1 1		•
LAB INFORMATION				
Al Waste Shipments			Ciffield Estates Only	
Compatible? (RT#)	Yes	No	Barium	
PCBs (ppm)(Oily Waste				
Only)?			Calcium	
TOC (ppm)(CC Waste Only)?	<u> </u>		Total Iron	
Flash Point (°F)	> 1	40	Magnesium	
pH (S.U.)	2.6	2	Sodium Chloride	
Cyanides? (mg/L)		· · · · · · · · · · · · · · · · · · ·	Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity			TDS	5.07
Physical Description		·	Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No	}	
Temperature	76	· F		
Conductivity	98.8	25		
% Solids	13.0)		
Turbidity	Yes	No		
Color (visual)				
TSS (%)	8.0			
Radiation Screen (as needed)			MA	
Lab Signature		s OI	AH	

		Were
RECEIVING INFORMATION		
Date	7/30/	14
Receiving ID#	1073	0140)
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client	-	
Transporter		
Time in 3		
Time out		
Received by	J.H.	
Sampled by	DU	



LAS INFORMATION. 1 All Waste Shipments:			Diffeld Blines Only	
Compatible? (RT#)	(Yes)	No	Barium	
PCBs (ppm)(Oily Waste Only)?		·		
			Calcium	
TOC (ppm)(CC Waste Only)?			Total Iron	
Flash Point (°F)	14	ك	Magnesium	
рп (S.U.)	127		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	leli		TDS	317
Physical Description			Resistivity	<u> </u>
Stream Consistency	Yes .	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	7705			
Conductivity	1010			
% Solids		~		
Turbidity	Yes	No		
Color (visual)				
TSS (%)	10)		
Radiation Screen (as needed)	,	,	Λ	
Lab Signature	PE			

RECEIVING	8	APP	RO	VAL	FOR	W
OZOZNINICINA						W 7

	A A LATE II O B ZBAD
RECEIVINGINFORMATIO	Marketalana
Date	7/31/14
Receiving ID#	207311401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S. F. a.
Sampled by	



				_1	
	LABINFORMATION All Waste Shibments			Öillield Stines Only	
	Compatible? (RT#)	(Yes)	No	Barium	
	PCBs (ppm)(Oily Waste			. Danagn	
	Only)?			Calcium	
	TOC (ppm)(CC Waste Only)?			Total Iron	
?	Flash Point (°F)	>140		Magnesium	
_	pH (S.U.)	1 2.6		Sodium Chloride	
	Cyanides? (mg/L)			Bicarbonate	
	Sulfides? (ppm)		·····	Carbonate	
-	Specific Gravity	1.12		TDS	5.07
[Physical Description	, , ,		Resistivity	J. J.
-	Stream Consistency	Yes	No	Sulfate	
	Oil in Sample	Yes	No	Canato	
-[Temperature	76°F	=		
	Conductivity	100.8.	~ <	· · · · · · · · · · · · · · · · · · ·	
4	% Solids	5,0	<u>, </u>		
	Turbidity	Yes	No		
	Color (visual)		110		
-[TSS (%)	(0,	1		
	Radiation Screen (as needed)			<u> </u>	
-	Lab Signature				
		REC04	4-01 – Pag		

WASTE STREAMS CHARACTERIZATIONS

	<u>3EO-TECHNOLOGIES</u> us, M148174. Telephone	734 946 1000. Fa	x 734 946 1002		Waste Profil
GENERATORINEORMA	říčai		4		
Name:	Î		USERA1D#		
Facility Address:			SICINAIČE CO	de Siale Cod	a».
City#					
Contact:	A 6.5	Value C	_ State:	Zip Code:	
BILLING INFORMATION	Tille:	Phone:()	Fax:()	
Company Name;		J SAME ASA	BUYL		<u>-</u>
Address		france commission frank	-		
3			****	omena Series a superior	
City:			State:	Zip Code:	
Afterition:		Phone		Pax	
THE WAST	C COADER I	E garage		KNOW KNOW	<u> </u>
BALLA KATALE WASTELD THIS WASTELD	ENTIFICATION To be: The control of the control o	E garage	****		
DAJ-CA IZE BEPA/STATE WASTELL This waste is considered Regulated by TSCA? [CONTRACT HUSS VAIST MOVELLONGE DENTIFICATION	How Congress of the Congress o	****	etton troi	
ISEPA/STATE WASTELL This waste is considered Regulated by TSCA? [List ALL Applicable Was	DENTIFICATION to be: INon Hazard IYes (INO (PCBs, etc.)) ie Codes INO INON	How Congress of the Congress o	****	etton troi	
Backer Residence ISEPA/STATE WASTELE This waste is considered Regulated by TSCA? [List ALL Applicable Was HYSICAL CHARACTERIS	DENTIFICATION to be: INon Hazard IYes (INO (PCBs, etc.)) ie Codes INO INON	How Congress of the Congress o	Wasie B	Jazardous VVacie	
ISEPA/STATE WASTELL This weste is considered Regulated by TSCA? List ALL Applicable Wast HYSICAL CHARACTERIS Color: White/Clear Black/Brown	CONTROL CONTRO	dous Liquid Industrial	Wasie Barring Grant Gran	Jazardous VVacie	
SEPA/STATE WASTELD SEPA/STATE WASTELD This waste is considered Regulated by TSCA? [List ALL Applicable Wasteld HYSICAL CHARACTERIS Color: White/Clear Black/Brown Other H: DIA M ≤ 2	ENTIFICATION to be: I Non Hazard Yes ANO (PCBs, etc.) te Codes: Door Doo TICS OF WASTE Suspended Solids I 0-1 % I 3-5 % A 1-3 % I >5%	dous Liquid Industrial Layers: Layers: Bi-Layer Single: 6-8	Wasie Springer Spring	Flazardous VVaste ecific Gravity: 1.0 1.2 1.0 1.4 / Olher 7.72.5	occeptable on 22,15
SEPA/STATE WASTE ID	DENTIFICATION to be:	dous Liquid Industrial Layers: Layers: Bi-Layer Single: 6-8	Wasie Springer Spring	Flazardous VVaste ecific Gravity 1.6-1.2 -1.0 1.3-1.4 / Olbei -12.5 1 2.5	accept sh
SEPA/STATE WASTELD SEPA/STATE WASTELD This waste is considered Regulated by TSCA? [List ALL Applicable Wasteld HYSICAL CHARACTERIS Color: White/Clear Black/Brown Other H: DIA M ≤ 2	ENTIFICATION to be: I Non Hazard Yes ANO (PCBs, etc.) te Codes: Door Doo TICS OF WASTE Suspended Solids I 0-1 % I 3-5 % A 1-3 % I >5%	dous Liquid Industrial Layers: Layers: Bi-Layer Single: 6-8	Wasie Barrier Consider Conside	Flazardous VVaste ecific Gravity: 1.0 1.2 1.0 1.4 / Olher 7.72.5	accept sh
ISEPA/STATE WASTELL This waste is considered Regulated by TSCA? [List ALL Applicable Was HYSICAL CHARACTERIS Color: White/Clear Black/Brown Other INA M & 2 Iquid Flash Point: [] <786	CONTIFICATION To be: Non Hazard Yes Anno (PCBs, etc.) TCS OF WASTE Suspended Solids 1.3% 1.5% 2-4 1.4-6 F 1.73-100°F 1.101	dous Liquid Industrial Layers: Layers: Millita Single: 6-8 140°F 1141-2 PPM (MUST 85 CO	Wasie Spayered Co. Spayered Co. Septimed Co.	Jazardous Waste ecific Gravity: -10 13-14 / Oiher -125 1 25	acceptable on 22,19
ISEPA/STATE WASTELD ISEPA/STATE WASTELD This waste is considered Regulated by TSCA? [List ALL Applicable Waster Color: White/Clear Black/Brown Other H: DA M £ 2 Guid Flash Point: D <78 OC CONCENTRATION DIAL COMPOSITION OF DISTITUENT	DENTIFICATION to be:	dous Liquid Industrial Layers: Layers: Millita Single: 6-8 140°F 1141-2 PPM (MUST 85 CO	Wasie Spayered Co. Spayered Co. Septimed Co.	Jazardous Waste ecific Gravity: -10 13-14 / Oiher -125 1 25	Cup [Open Cup
ISEPA/STATE WASTELL This waste is considered Regulated by TSCA? [List ALL Applicable Was HYSICAL CHARACTERIS Color: White/Clear Black/Brown Other T NA M & 2 Guid Flash Point: 1 <78 OC Concentration DTAL COMPOSITION OF MATURENT MASSENSE	CONTRICATION To be: Non Hazard Yes Anno (PCBs, etc.) Codes Door Doo TICS OF WASTE Suspended Solids 1.3% 3.5% 2-4 1 4-6 F 173-100°F 101 O WASTE: MUST BE EQUAL TO	dours Liquid Industrial Layers: Layer	Wasie Spayered Co. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	ilazardous VVaste ecific Gravity: - 10	Cup [Open Cup
ISEPA/STATE WASTELD ISEPA/STATE WASTELD This waste is considered Regulated by TSCA? [List ALL Applicable Waster Color: White/Clear Black/Brown Other H: DA M £ 2 Guid Flash Point: D <78 OC CONCENTRATION DIAL COMPOSITION OF DISTITUENT	ENTIFICATION to be:	dours Liquid Industrial Layers: Layers: Millite: Bislayer Single: Single: 140°F 141-2 FPM (MUST BE CO) OR SKEATER THAN 10 MAX MIN	Wasie Bayered 50, 10 10 10 10 10 10 10 10 10 10 10 10 10	j-lazardojus VVaste ecific Gravity: -1.0 -1.2 -1.0 1.3 - 1.4 / Oiher - 12.5 -12.5 None Closed	accept of the last

EGT - 28470 Citrin Drive - Romulus - MI - 48174 Weste Profile - Page 2	
Metals Indicate if this waste contains any of the following metals If Generator knowledge-provide backup. [五 Lab Analysis	
Not Concentration Not Concentration Assents (As) D064 2 5 ppm ppm PCB Dloxins D ppm Aromatic Amine 2 ppm Cadmign (Ce) D005 2 100 ppm ppm Cyanides Reactive ppm Rodenticides D ppm Cyanides Reactive ppm Rodenticides D ppm Suffices Reactive ppm Suffices Reactive ppm Suffices Rodenticides D ppm Suffices Rodenticid	
IS WASTE ANY OF THE FOLLOWING? At Least One Box Must Be Checked. Radioactive: Water Reactive Condition Shock Sensitive: Reactive (other) DOT Explosives NIOSH Humani-Positive Carcinogens Direction (Benzene, etc.) Reactive (other) DOT Explosives None Apply	<u> </u>
SHIPPING INFORMATION 1. Is this a DOT Hazardous Malerial (49CFR 172.101 & 173. Subpart D)?	
3. DOT Shipping Name Right Office Character Acres Herard Class UNINA	
PG Hazardous Constituents for "n.o.s."	-
4. Method of Shipment: EBulk Tanker Dectruck Bail Car Droms Total 5. Number of Units to Ship Now: 3500 cm 1 6. Antidipated Volume / Units per Year. 30.000 75 000 or Done To 6. Special Handling Requirements including PPE:	me.
CERTIFICATION STATEMENT	-
I hereby represent and warrant that I have personally examined and am familiar with the information contained and automitted in this and attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying of 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 want in the handling and processing of the wester material described herein. If this box is checked [] I request Environmental Geo-Technologies makes will be consistent with the rest of the sample characterization and/or requirements. Printed Name	anty
Generator's Sign	-
GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart pair the waste described in the above referenced Generators Waste Profite Report using an appropriate container. A representative earny one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the space provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technol representative.	ile is
1. 2. COLLECTION POINT	
A Committee of the comm	4
SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER	
3 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER 4. Sample No. Preservation: Yes \(\) No \(\)	Harandalayali sagarah saya da
3. SAMPLE COLLECTOR'S NAME, TITLE EMPLOYER 4. Sample No. Preservation: Yes No No No No Sample No Sample Passes from one to another. 5. CHAIN OF CUSTODY. Each person who handles the sample must sign below when the sample passes from one to another.	- The same of the
SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER 4. Sample No. Preservation: Yes \(\) \(\) \(\)	A Control of the cont
3. SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER 4. Sample No. Preservation: Yes No D 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	

Environmental Geo-Technologies, LLC.

RECEIVING & APPROV	AL FO	RM	-	•
RECEIVING INFORMATION				
Date	4/30	(
Receiving ID#	Chro	me Pro	cess	Welfes
Manifest# Line:				
Land Ban Cert included	Yes	No		
EGT Approval#		- Control of the control		
Generator				
Client				
Transporter				•
Time in	,			
Time out				•
Received by	4.7	1		
Sampled by	Clie	<i>J</i>	,	

LABUNFORMATION: All Waste Shipments:	en e		Oilfield Brines Only
Compatible? (RT#)	Yes	No	Barium
PCBs (ppm)(Oily Waste			
Only)?	NA		Calcium
TOC (ppm)(CC Waste Only)?	NA		Total Iron
Flash Point (°F)	> 1	10	Magnesium
pH (S.U.)	2.7		Sodium Chloride
Cyanides? (mg/L)	₹30		Bicarbonate
Sulfides? (ppm)	<20	<u> </u>	Carbonate
Specific Gravity	1.00		TDS
Physical Description	liau	2-91	Resistivity
Stream Consistency	Yes	Ŋо	Sulfate
Oil in Sample	Yes	NO	
Temperature	75°F		
Conductivity	2,3~	5	
% Solids	0,2		
Turbidity	Yes (No)	
Color (visual)	Blue		
TSS (%)	2	0.	
Radiation Screen (as needed)	NEARY.	we	\wedge
Lab Signature	0,		HATKIN
	REC04-	-01 - Pag	e 1



Version 1.1

Revision Date 07/08/2011

Print Date 12/03/2013

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

PERMATREAT® 1500

MSDS Number

: REL_70159

Company

: Chemetall US, Inc.

675 Central Avenue

New Providence, NJ 07974

Telephone

+18005264473

Telefax

+19084644658

Emergency telephone no

CHEMTREC - 800-424-9300

SECTION 2. HAZARDOUS COMPONENTS INFORMATION

Component	CAS-No.	Weight percent
Chromic (VI) Acid	1333-82-0	1.00 - 5.00
Chromium (III) chromate (VI)	24613-89-6	1.00 - 5.00

Unidentified ingredients are considered not hazardous under Federal Hazard Communication Standard (29CFR 1910.1200).

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview

Form

: liquid

Colour

: brown

Odour

: acrid

Hazard Summary

: Causes severe burns. Also harmful by inhalation and if

swallowed. May cause cancer by inhalation.

Route(s) of Entry	Inhalation	Skin	Ingestion
	yes	yes	yes

Carcinogenicity:

NTP

OSHA

Chromic (VI) Acid

This substance is listed by NTP as a Carcinogen.

Chromium (III)

This substance is listed by NTP as a Carcinogen.

chromate (VI)

IARC Chromic (VI) Acid This substance is listed by IARC as a Carcinogen. This substance is listed by IARC as a Carcinogen.

Chromium (III)

chromate (VI)

No substance in this product is regulated by OSHA as a carcinogen

SECTION 4. FIRST AID MEASURES

N.D. - Not Determined 1/6 N.A. - Not Applicable

Revision Date 07/08/2011

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Inhalation

Move to fresh air. If symptoms persist, call a physician. If

breathing is irregular or stopped, administer artificial

respiration.

Skin contact

Wash off immediately with plenty of water for at least 15

minutes. Take off contaminated clothing and shoes

immediately. Call a physician if irritation develops or persists.

Eye contact

Rinse immediately with plenty of water for at least 15

minutes.Keep eye wide open while rinsing.Get medical

attention immediately

Ingestion

Rinse mouth.Drink 1 or 2 glasses of water.Never give anything

by mouth to an unconscious person. Get medical attention

immediately

SECTION 5. FIRE-FIGHTING MEASURES

Flash point

Note: does not flash

Lower explosion limit

Note: not applicable

Upper explosion limit

Note: not applicable

Suitable extinguishing

media

Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Special protective

equipment for fire-fighters

Further information

In the event of fire, wear self-contained breathing apparatus.

Use water spray to cool unopened containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation.

Methods for cleaning up

Ventilate area.

Neutralize with lime milk or soda and flush with plenty of water.

Clean up with inert absorbant material.

Keep in suitable, closed containers for disposal.

Flush with plenty of water.

Additional advice

Never return spills in original containers for re-use.

N.D. - Not Determined

2/6 N.A.≃Not Applicable



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SECTION 7. HANDLING AND STORAGE

Handling

Handling

Add this product to surface of solution slowly to avoid

spattering

Do not add large amounts of product to solution at any one

time.

Use only with adequate ventilation.

Storage

Requirements for storage

areas and containers

: Keep containers tightly closed in a cool, well-ventilated place.

KEEP FROM FREEZING Do not allow to dry-out

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL
	(TWA)	(TWA)
Chromic (VI) Acid	0.05 mg/m3	0.005 mg/m3
	as Cr	as Cr
Chromium (III) chromate (VI)	0.05 mg/m3	0.005 mg/m3
	as Cr	as Cr

Eye protection

: Chemical resistant goggles must be worn.

Face-shield

Hand protection

Impervious gloves

Skin and body protection

: Protective suit

Respiratory protection

If the occupational exposure limits cannot be met, suitable

respirator equipment shall be worn.

Hygiene measures

Avoid contact with skin, eyes and clothing.

Wear suitable gloves and eye/face protection.

Wear suitable protective clothing.

Wash hands before breaks and immediately after handling the

product.

Provide adequate ventilation.

Do not inhale fumes.

Keep away from food and drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

N.D. - Not Determined 3/6 N.A. - Not Applicable

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pΗ

: < 2.5

Melting point/range

: 0 °C (32 °F)

Boiling point/boiling range

: Note: no data available

Vapour pressure

: Note: no data available

Bulk density

: 9.14 lb/gal

Water solubility

: Note: completely soluble

Partition coefficient: n-

octanol/water

Note: no data available

Percent of Volatile by Weight

excluding water

Relative density

: 1.095

Evaporation rate

Note: Water = 1

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid

: Avoid letting the product become dry.

Materials to avoid

: Bases

Reducing agents Combustible material Organic materials

Warning! Do not use together with other products, which may

release dangerous gases (chlorine).

Hazardous decomposition

products

: Chromium oxides

Hydrogen, by reaction with metals

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity:

Mixture; Not Determined.

Acute oral toxicity

Chromic (VI) Acid

LD50, rat

Dose: 52 mg/kg

N.D. - Not Determined 4/6 N.A. - Not Applicable

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SECTION 12. ECOLOGICAL INFORMATION

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Advice on Disposal

: Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse, recycle or disposal.

SECTION 14. TRANSPORT INFORMATION

Refer to Bill of Lading.

SECTION 15. REGULATORY INFORMATION

TSCA Status

: All components of this material comply with US TSCA

requirements.

SARA 313 Components

Chromic (VI) Acid

CAS-No. 1333-82-0 CAS-No. 24613-89-6

Chromium (III)

chromate (VI)

CERCLA Reportable Quantity

Chromic (VI) Acid

10 Pounds

Chromium (III)

chromate (VI)

10 Pounds

California Prop. 65

N.D

NFPA

3 0 0 Corrosive Acid

HMIS

300J

WHMIS

E: Corrosive Material

D2A: Very Toxic Material Causing Other Toxic Effects

SECTION 16. OTHER INFORMATION

Further information

Chemetall US, Inc. warrants that the products described herein will conform with its published specifications. The products supplied by Chemetall and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of

N.D. A Not Determined

Chemetall

dermatert.

Version *1.1*Revision Date 07/08/2011

Print Date 12/03/2013

the Chemetall materials for their own particular purpose. Since buyer's conditions of use of products are beyond Chemetall's control, Chemetall does not warrant any recommendations and information for the use of such products. CHEMETALL DISCLAIMS ALL OTHER WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE USE OF ITS PRODUCTS.

N.D. - Not Determined

6/6

N.A. - Not Applicable

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC 28470 Citrin Dr., Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator	Waste	Profile
S	. 8	

Name:	<u> </u>			
121		USEPA ID	#	
Facility Address:		SIC/NAICS	S Code: State Code:_	
City:		State	Zip Code:	
	itle:	Phone:	Fax: ()	
Contact: BILLING INFORMATION	Title: 4	SAME AS AROVE		
Company Name:				
Address:				
		State:	Zip Code:	
City:		A CONTRACTOR OF THE PARTY OF TH	Fax:	
Attention:		Phone	r da.	
WASTE INFORMATION				
Name of Waste/Commo	n Chemical Name:			
Listed and Chara		ral Solutions		
		ete information may delay the ap	poroval process);	
Bulked at TSDF	tease de specific, incompie	no monnación may dolay alo ap	,p,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				
USEPA / STATE WASTE IDE				
This waste is considered to		ous Liquid Industrial Waste	☑ Hazardous Waste	
2. Regulated by TSCA?	Yes Mo (PCBs, etc.)	4 11		
3. List ALL Applicable Waste	Codes: FUU6-9, DUU	# - T T		
PHYSICAL CHARACTERIST	ICS OF WASTE			
Color: S	uspended Solids	Layers:	Specific Gravity:	acestoble
Color: S White/Clear	iuspended Solids	Layers:	Specific Gravity: □<0.8	acupbli
Color: S	uspended Solids	Layers: Multi-Layered Mul	□ <0.8 ⊠ 1.0 – 1.2	aceydollo 100314
Color: S 图 White/Clear 图 Black/Brown 图 Other Blue/green	iuspended Solids	Layers: Multi-Layered Bi-Layered Single Phase	□<0.8	acestoli M 070314
Color: S ☑ White/Clear ☑ Black/Brown ☑ Other Blue/green pH: □ NA □ ≤ 2	Suspended Solids ☐ 0-1 % ☐ 3-5 % ☑ 1-3 % ☐ > 5% ☑ 2 - 4 ☑ 4 - 6	Layers: Multi-Layered Bi-Layered Single Phase 6 - 8	□<0.8	· ·
Color: S ☑ White/Clear ☑ Black/Brown ☑ Other Blue/green pH: □ NA □ ≤ 2	Suspended Solids ☐ 0-1 % ☐ 3-5 % ☑ 1-3 % ☐ > 5% ☑ 2 - 4 ☑ 4 - 6	Layers: Multi-Layered Bi-Layered Single Phase	□<0.8	· ·
Color: S White/Clear Black/Brown C Other Blue/green PH: □ NA □ ≤ 2 [Liquid Flash Point: □ <73°F	Suspended Solids	Layers:	□<0.8	· · · · · · · · · · · · · · · · · · ·
Color: SWhite/Clear Slack/Brown Clher Blue/green PH: □ NA □ ≤ 2 Liquid Flash Point: □ <73°F	Suspended Solids	Layers: Multi-Layered Bi-Layered Single Phase 6 - 8	□<0.8	· · · · · · · · · · · · · · · · · · ·
Color: ☐ White/Clear ☐ Black/Brown ☐ Other Blue/green PH: □ NA □ ≤ 2 □ Liquid Flash Point: □ <73°F	Suspended Solids	Layers:	□<0.8	Cup 🔲 Open Cup
Color: White/Clear Black/Brown Other Blue/green PH: NA Liquid Flash Point: VOC CONCENTRATION - TOTAL COMPOSITION OF WA	Suspended Solids	Layers: Multi-Layered Bi-Layered Single Phase 6 - 8	□<0.8	Cup ☐ Open Cup
Color: White/Clear S Black/Brown Other Blue/green PH: NA < 2 Liquid Flash Point: <73°F VOC CONCENTRATION - TOTAL COMPOSITION OF W	Suspended Solids	Layers: Miulti-Layered Bi-Layered Single Phase 40°F 141 - 200°F >2 PPM (MUST BE COMPLETED) OR GREATER THAN 100% (LIST EACH MAX MIN CONSTITE 15	□<0.8	Cup ☐ Open Cup MAX MIN 15 - 0 % 25 - 0 %
Color: White/Clear Black/Brown Colher Blue/green	Suspended Solids	Layers: Multi-Layered Bi-Layered Single Phase 40°F 141 - 200°F >2 PPM (MUST BE COMPLETED) OR GREATER THAN 100% (LIST EACH MAX MIN CONSTITE 15 % Zinc And 15 1 % Copper (99 85 % Coppe	□<0.8	Cup ☐ Open Cup MAX MIN 15 0 %
Color: White/Clear Black/Brown Colher Blue/green	Suspended Solids	Layers: Multi-Layered Milti-Layered Single Phase 140°F 141 - 200°F >2 PPM (MUST BE COMPLETED) OR GREATER THAN 100% (LIST EACH MAX MIN CONSTITE 15	□<0.8	Cup ☐ Open Cup MAX MtN 15 - 0 % 25 - 0 % 20 - 0 %

POL - FOUR ORIGINISTIAG - MOINT	uns - MII - MOI	<u>/ % </u>		Waste Pro	file – Page 2
Metals: Indicate if this waste conta 图 Lab Analysis 区 Gene	ins any of the fo erator Knowled	llowing metals,. Ige	If Generator knowledge-provide ☐ TCLP █ਿTC1	backup	
Dioxins	Pre- romatic Amine E esticides E odenticides E ungicides E	sent ppm ppm ppm ppm ppm	Barium (Ba) Cadmium (Cd) Chromium (Cr) Lead (Pb) Mercury (Hg) Selenium (Se) Silver (Ag)	D004	ppm
IS WASTE ANY OF THE FOLLOWI ☐ Radioactive ☐ Water Reacti ☐ NIOSH Human-Positive Carcino	ve 🗌 Oxidiz	er 🗀	Must Be Checked. Shock Sensitive Reactive Biologic	—	Explosives Apply
SHIPPING INFORMATION	1				
1. Is this a DOT Hazardous Materia		01 & 173 Subpa	t D)? ⊠Yes □No		
2. Reportable Quantity (RQ) in pour			- -		•
3. DOT Shipping Name Environm	mentally Ha	zardous Was	ste, nos	lazard Class 9	UN/NA 3082
PG_IIERG_171_ Hazard	ous Constituen	ts for "n.o.s."	_		
4. Method of Shipment:			□Rail Car □ Drums □ To	otes.	
Number of Units to Ship Now: Special Handling Requirements in		6. Anticipa	ted Volume / Units per Year: _		or [_] One Time
CERTIFICATION STATEM			and the second		
I hereby represent and warrant that I attached documents. Based on my information, the information containe material fact has been omitted as to in the handling and processing of the Technologies not to correct any incomof the sample characterization. Printed Name:	have personally nquiry and personally d herein is true, make this inform	onal knowledge accurate, and c nation misleadin described berei	of those individuals responsible omplete to the best of my know g. I understand that others may g. If this box is checked [], I now the control of the contr	of for supplying or obtained and belief. Further years on this represer	nining the rthermore, no ntation and warranty
Generator's Signature:				Date: 6/3/	LANK
GENERATOR'S CHAIN OF the waste described in the above refe one obtained using any of the applical provided below. If you have problems representative.	ble sampling ma	TORS VVASTE PRO	OFFILE KEPORT using an appropria	ate container. A repr	esentative sample is
1					
Sampling method	COLLECTION	N POINT	_		
3SAMPLE COLLECTOR'S NAME,	TITLE, EMPLO	YER	· ·		
4. Sample No Pr					
			and nime to January 1		
Relinquished by:	SOLVANO NATION	s ure sample m	ust sign below when the sample Received by:	e passes from one to Date	another.
(Signature)	Date	Time	(Signature)	- 400	100116

EGY . 20470 Citation Com

ENVIRONMENTAL 28470 Citrin Dr., Rom	. <i>GEO-TECHNOLOGIE</i> ulus, MI 48174. Telephon	ES, LLC te 734 946 1000. Fax 734 946 1002	Generator V <u>Profile #</u>	Vaste Profile <u>6051</u> 9
GENERATOR INFORM	ATION		·	
Name:		USEPA ID #		
Facility Address:		SIC/NAICS Code	:State Code:	
City:		State:	Zip Code:	
Contag	Title:	Phone:		
BILLING	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	SAME AS ABOVE	Fax: ()	
Company Name				
Address:		**************************************		<u> </u>
City:		State:	Zip Code:	
Attention		Phone: (Fax:	
Sulfuric Acid Process Generating Was Unused Sulfu	ate (Please <i>be specific, incor</i>	mplete information may delay the approval sting Sulfur, may be cont	process): caminated.	
			· · · · · · · · · · · · · · · · · · ·	
USEPA / STATE WASTE	IDENTIFICATION			
1. This waste is consider		• -	lazardous Waste	•
= *	Yes ⊠No (PCBs, etc aste Codes: <u>D002</u> D00	•		
AND PLEASE OF THE CONTRACT OF THE PROPERTY OF				
PHYSICAL CHARACTE	RISTICS OF WASTE Suspended Solids	Layers: Spec	cific Gravity:	
☑ White/Clear or ☑ Black/Brown ☐ Other	£ 0-1 %	Multi-Layered	1.0 – 1.2 -1.0 1.3 – 1.4 Other > 1.4	0000000
pH: □NA 🖾 ≤ 2	2 🛮 2 – 4 🔲 4 – 6	6-8 8-10 10-	- 12.5 □ <u>></u> 12.5	the state of the s
Liquid Flash Point: 🗌 <	73°F	01 – 140°F ☐ 141 – 200°F ☐ >200°F	☑ None ☐ Closed €	Cup 🗌 Open Cup
VOC CONCENTRATION	0	PPN (MUST BE COMPLETED)		
TOTAL COMPOSITION C	OF WASTE - MUST BE EQUAL	TO OR GREATER THAN 100% (LIST EACH CON-	STITUENT >/= 0.1%)	
CONSTITUENT		MAX MIN CONSTITUENT		MAX MIN

MAX MIN

100 50 % 50 0 % 1 0 %

Sulfuric Acid Water Sludge

CONSTITUENT

% % % %

EGT - 28470 Citrin Drive - Romul	<u>us - Mi - 48174</u>	,	Waste Pro	file – Page 2
Metals: Indicate if this waste contain	ns any of the following meta rator Knowledge		vide backup TOTAL	
Dioxins ppm Pe Cyanides Reactive ppm Ro Cyanides Total ppm Fu Sulfides Reactive ppm Sulfides Total ppm	Not Concentry Present Direction of the Concentry Directi	Barium (Ba) Cadmium (Cd Chromium (Cr Lead (Pb) Mercury (Hg) Selenium (Se) Silver (Ag)) D007 🖸 < 5 ppi D008 🖸 < 5 ppi D009 🔯 < 0.2 ppi	mppm mppm mppm mppm mppm mppm
TCLP Organics D012 - D043 above re	gulatory limits: Present 🗌	Not Present ☑		
IS WASTE ANY OF THE FOLLOWIN ☐ Radioactive ☐ Water Reactive ☐ NIOSH Human-Positive Carcinog	e 🔲 Oxidizer		nactive (other)	Explosives a Apply
SHIPPING INFORMATION				
1. Is this a DOT Hazardous Material	(49CFR 172.101 & 173 Su	bpart D)? ⊠Yes ∐No		
2. Reportable Quantity (RQ) in poun	ds			
3. DOT Shipping Name Waste St	ılfuric Acid greate	er than 51 %	Hazard Class8	UN/NA 1830
PG II ERG 154 Hazard	ous Constituents for "n.c.s."	9 		
•			☐Totes	
5. Number of Units to Ship Now:	6. Ant	icipated Volume / Units per Ye	ar: 200,000 USG	or 🗌 One Time
6. Special Handling Requirements in	cluding PPE:			
	rise, paragit verganisme i mete saa sommitte meg liiterat _v ort, pitemp van meen variatiiste steeratiis.			
6. Special Handling Requirements in CERTIFICATION STATEMS I hereby represent and warrant that I attached documents. Based on my is information, the information container material fact has been omitted as to in the handling and processing of the Technologies not to correct any ingo of the sample characterization as Printed Name.	ENT have personally examined and an analysis of the second leading and personal knowled therein is true, accurate, a make this information misle	and am familiar with the inform dge of those individuals respoi ind complete to the best of my ading. I understand that other	nation contained and subrasible for supplying or ob- knowledge and belief. Fis may rely on this represedured in the consideration of th	mitted in this and all taining the urthermore, no entation and warranty ial Geo- stent with the results
CERTIFICATION STATEMS I hereby represent and warrant that I attached documents. Based on my is information, the information containe material fact has been omitted as to in the handling and processing of the Technologies not to correct any incomplete the sample characterization are	ENT have personally examined and an analysis of the second leading and personal knowled therein is true, accurate, a make this information misle	and am familiar with the inform dge of those individuals respoi ind complete to the best of my ading. I understand that other	nation contained and subrasible for supplying or ob- knowledge and belief. Fis may rely on this represedured in the consideration of th	mitted in this and all taining the urthermore, no entation and warranty tal Geo-
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CERTIFICATION STATEME I hereby represent and warrant that I attached documents. Based on my in information, the information contained material fact has been omitted as to in the handling and processing of the Technologies not to correct any ingo of the sample characterization and Printed Name: Generator's Signature: GENERATOR'S CHAIN the waste described in the above reference obtained using any of the application provided below. If you have problems representative. 1	ENT have personally examined and in an	and am familiar with the information of those individuals respond complete to the best of my ading. I understand that other his box is checked [nation contained and subrasible for supplying or obknowledge and belief. First may rely on this represedues the consideration of the consideration of the consideration of the container. Title: Date: Date: LEASE Collect a representation of the container. A representation of the container. A representation of the contact your Environment contact your Environment.	mitted in this and all taining the urthermore, no entation and warranty rail Geostent with the results

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC 28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile Profile # 205 E.C

GENERATOR INFORMATION	
Name:	USEPA ID#
Facility Address:	StC/NAICS Code:State Code:
City:	State: Zip Code;
ContactTitle	Phone: Fax: ()
BILLING INFORMATION	I SAME AS ABOVE
Company Name:	
Address:	
City:	State: Zip Code:
Attention:	Phone: Fax
The state of the s	Finale
waste information	
Name of Waste/Common Chemical Name:	· ·
Sodium Hydroxide	
Process Generating Waste (Please be specific, incomplete and the property of the process of the	lete information may delay the approval process):
Bulked at TSDF	
USEPA / STATE WASTE IDENTIFICATION	68
 This waste is considered to be: Non Hazard Regulated by TSCA? Yes Ano (PCBs, etc.) 	lous Liquid Industria! Waste Hazardous Waste
3. List ALL Applicable Waste Codes: D002 F007	F009 D004-11
Control of the Contro	
PHYSICAL CHARACTERISTICS OF WASTE Color: Suspended Solids	Layers: Specific Gravity:
☐ White/Clear ☐ 0-1 % ☐ 3-5 %	☐ Multi-Layered ☐<0.8 ☑ 1.0 – 1.2
☑ Black/Brown	
pH: □NA □≤2 □ 2-4 □ 4-6	
Liquid Flash Point: <73°F 73 - 100°F 101 -	- 140°F
VOC CONCENTRATION - 0	PPM (MUST SE COMPLETED)
	OR GREATER THAN 100% (LIST EACH CONSTITUENT >/= 0.1%)
CONSTITUENT	
	MAX MIN CONSTITUENT MAX MIN - % %
Sodium Hydroxide Water	- 15 - 1 % 99 - 85 %
Studge	5 - 0 % - % - % % - %

EG7 - 28470 Citrin Drive - Romul	us — M1 — 48174		Waste Profi	le Page 2
Metals: Indicate if this waste contain ☐ Lab Analysis ☐ Gener	s any of the following metals,. If rator Knowledge	Generator knowledge-provide bac ☐ TCLP ☑TOTAL	сир	
Dioxins ppm Per Cyanides Reactive ppm Ro	Not Concentration Present present present ppm sticides ppm denticides ppm ngicides ppm ppm ppm ppm ppm ppm ppm ppm	Arsenic (As) D00 Barium (Ba) D00 Cadmium (Cd) D00 Chromium (Cr) D00 Lead (Pb) D00 Mercury (Hg) D00 Selenium (Se) D01 Silver (Ag) D01	5	>1 ppm >5 ppm >5 ppm >0.2 ppm
IS WASTE ANY OF THE FOLLOWIN ☐ Radioactive ☐ Water Reactive ☐ NIOSH Human-Positive Carcinoge	e 🗌 Oxidizer 🔲 🖯	Shock Sensitive	other) DOT E	
SHIPPING INFORMATION 1. Is this a DOT Hazardous Material 2. Reportable Quantity (RQ) in pound 3. DOT Shipping Name Waste Co	ds	•	ard Class ⁸	UN/NA 3266
PG II ERG 154 Hazarde		_		<u></u>
4. Method of Shipment: 5. Number of Units to Ship Now: 6. Special Handling Requirements in	⊠Bulk Tanker			or 🔲 One Time
attached documents. Based on my ir information, the information contained material fact has been omitted as to it in the handling and processing of the Technologies not to correct any incomo of the sample characterization. Printed Name: Generator's Signature: Generator's Signature: the waste described in the above reference obtained using any of the application ovided below. If you have problems	have personally examined and a requiry and personal knowledge of herein is true, accurate, and comake this information misleading waste material described herein sistencies. Any renced Generators Waste Proble sampling methods cited in 40	f those individuals responsible formplete to the best of my knowled. I understand that others may real. If this box is checked [], I required in the control of the control	r supplying or obtatige and belief. Further, on this represer uest Environmentalikes will be consisted. Juliect a representate container. A representation information of the container of the c	ining the thermore, no ntation and warranty i Geo- ent with the results 25 / 4 live 1-quart sample of esentative sample is storn in the spaces
I hereby represent and warrant that I attached documents. Based on my ir information, the information container material fact has been omitted as to in the handling and processing of the Technologies not to correct any incomo of the sample characterization Printed Name: GENERATOR'S CHAIN Or the waste described in the above reference obtained using any of the application or obtained using any of the application of the sample characterization of the sample characterization. 1	have personally examined and a requiry and personal knowledge of therein is true, accurate, and comake this information misleading waste material described herein sistencies. COSTODI RECORD IN renced GENERATORS WASTE PROPERS	f those individuals responsible formplete to the best of my knowled. I understand that others may real. If this box is checked [], I required in the control of the control	r supplying or obtatige and belief. Further, on this represer uest Environmentalikes will be consisted. Juliect a representate container. A representation information of the container of the c	ining the thermore, no ntation and warranty i Geo- ent with the results 25 / 4 live 1-quart sample of esentative sample is storn in the spaces
I hereby represent and warrant that I attached documents. Based on my ir information, the information container material fact has been omitted as to in the handling and processing of the Technologies not to correct any incomo of the sample characterization. Printed Name: GENERATOR'S CHAIN Or the waste described in the above reference obtained using any of the application or obtained using any of the application or obtained using any of the application or obtained using any of the application of the a	have personally examined and a requiry and personal knowledge of therein is true, accurate, and comake this information misleading waste material described herein sistencies. COSTODE RECORD IN renced GENERATORS WASTE PROBle sampling methods cited in 40 to obtaining a representative sample COLLECTION POINT	f those individuals responsible formplete to the best of my knowled. I understand that others may real. If this box is checked [], I required in the control of the control	r supplying or obtatige and belief. Further, with the consist let are: Consist Container. A representation of the container C	ining the thermore, no nation and warranty Geo- ent with the results 2b / U live 1-quart sample of esentative sample is tion in the spaces al Geo-Technologies
I hereby represent and warrant that I attached documents. Based on my ir information, the information container material fact has been omitted as to in the handling and processing of the Technologies not to correct any incomo of the sample characterization. Printed Name: GENERATOR'S CHAIN Or the waste described in the above reference obtained using any of the application obtained using any of the application of the sample Method 1. SAMPLING METHOD SAMPLE COLLECTOR'S NAME, 4. Sample NoPr	have personally examined and a requiry and personal knowledge of therein is true, accurate, and comake this information misleading waste material described herein sistencies. COSTODE RECORD IN renced GENERATORS WASTE PROBle sampling methods cited in 40 to obtaining a representative sample COLLECTION POINT	f those individuals responsible formplete to the best of my knowled. I understand that others may real. If this box is checked [], I required in the control of the control	r supplying or obtatige and belief. Further, with the consist let are: Consist Container. A representation of the container C	ining the thermore, no nation and warranty Geo- ent with the results 2b / U live 1-quart sample of esentative sample is tion in the spaces al Geo-Technologies

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC 28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

APRICATAN INFARMATION		
GENERATOR INFORMATION Name:	LICEDA ID 4	
	USEPA ID#	
Facility Address:	SIC/NAICS Code:	State Code:
City:	State:	Zip Code:
Contac	Phone:	Fax: ()
BILLING INFORMATION	SAME AS ABOVE	
Company Name		
Address:		
City:	State	Zip Code:
Attention	Phone	Fax
WASTE INFORMATION		· · · · · · · · · · · · · · · · · · ·
Name of Waste/Common Chemical N	lame:	
Sodium Aluminate		
	c, incomplete information may delay the approval pro	cess):
Bulked at TSDF		
USEPA / STATE WASTE IDENTIFICATION		
		irdous Waste
2. Regulated by TSCA? Tyes And (PC	Bs; etc.) D007	•
3. List ALL Applicable Waste Codes: D002		
PHYSICAL CHARACTERISTICS OF WASTE		
Color: Suspended Solid ☑ White/Clear □ 0-1 % □	s Layers: Specific 3-5 % ☐ Multi-Layered ☐<0.8	Gravity: 1.0-1.2 Copfile
☑ Black/Brown	> 5% A Bi-Lavered 0.8 – 1.0	☑ 1.3 – 1.4
Other	Single Phase Exact / Other	o 70314
pH:	4-6 6-8 8-10 10-12	.5 <u>⊠ ≥</u> 12.5
Lizarid Elach Doint C <790E C 79 4000E	[] 404 4400E [] 444 2000E [] > 2000E []	Name Colored Con Cl Ones Con
Enquire resti Folite: [] 75-7 [] 75-100-F	☐ 101 – 140°F ☐ 141 – 200°F ☐ >200°F	None Closed Cup Copen Cup
VOC CONCENTRATION - 0	PPM (MUST BE COMPLETED)	
TOTAL COMPOSITION OF WASTE - MUST BE	EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTIT	TUENT >/= 0.1%)
CONSTITUENT	MAX MIN CONSTITUENT	MAX MIN
	24	- %
Sodium Hydroxide Water		- % - %
Sludge	5 - 0 %	

EGT - 28470 Citrin Drive - Romu	us MI 48174				Waste Profil	e Page 2
Metals: Indicate If this waste contain 図 Lab Analysis 図 Gene	ns any of the folk rator Knowledg	owing metals,. If		vide backup ₫TOTAL		
Dioxins ppm Pe Cyanides Reactive ppm Ro	Not Prese omatic Amine II sticides II denticides II ngicides II	Concentration nt ppm ppm ppm ppm ppm	Arsenic (As) Barium (Ba) Cadmium (Contromium (Contromium (Contromium (Control (Contr	D007 D008 D009	\$\frac{8}{8} < 5 ppm \$\frac{1}{8} < 100 ppm \$\frac{1}{8} < 1 ppm \$\frac{1}{8} < 5 ppm \$\frac{1}{8} < 5 ppm \$\frac{1}{8} < 0.2 ppm \$\frac{1}{8} < 1 ppm \$\frac{1}{8} < 5 ppm \$\fra	
TCLP Organics D012 - D043 above re	gulatory limits: i	Present ☐ Not I	Present 🖾			
IS WASTE ANY OF THE FOLLOWING ☐ Radioactive ☐ Water Reactive ☐ NIOSH Human-Positive Carcinog	e 🔲 Oxidize			eactive (othe	er) DOTE	
SHIPPING INFORMATION			•			
1. Is this a DOT Hazardous Material	•	1 & 173 Subpart	D)? ⊠Yes □No			
2. Reportable Quantity (RQ) in pour		Malned	<u></u> · .		a. 8	
3. DOT Shipping Name Waste So				Hazard	Class	UN/NA 1819
PG II ERG 154 Hazard		_				
4. Method of Shipment:5. Number of Units to Ship Now:6. Special Handling Requirements in			□Rail Car □Drums ed Volume / Units per Yo	□Totes ear: 200,	000 USG	_ or 🏻 One Time
CERTIFICATION STATEMI I hereby represent and warrant that I attached documents. Based on my is information, the information container material fact has been omitted as to in the handling and processing of the Technologies not to correct any incorr of the sample characterit	have personally nquiry and perso d herein is true, make this inform waste material	nal knowledge o accurate, and co ation misleading described hereir	of those individuals respondinglete to the best of my individuals respondent that other in this box is checked	onsible for se / knowledge ors may rely or □, I reques	ipplying or obtain and belief. Fur on this represer tenvironmental swill be consisted.	ning the thermore, no tation and warranty Geo-
Generator's Signature:				Date	(2/-7	1/2014
GENERATOR'S CHAIN OF the waste described in the above reference obtained using any of the application provided below. If you have problem representative.	renced GENERAT	ors Waste Pro	FILE REPORT using an ap D CFR 261-Appendix 1.	propriate co Fill in the sa	ntainer. A repre impling informat	sentative sample is ion in the spaces
12. SAMPLING METHOD	COLLECTION	POINT		· •		
3. Sample collector's name,	TITLE, EMPLO	YER				
4. Sample No P	reservation: Y	es 🔲 No 🗌				
	rson who handle	s the sample m	ust sign below when the	sample pas	ses from one to	another.
Relinquished by: (Signature)	Date	Time	Received by (Signature	v:	Date	Time
	1	CD ((1))		1		L

<u>ENVIRONMENTAL GEO-TECHNOLOGIES, LLC</u>

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

Generator Waste Profile

GENERATOR INFORMATION USEPAID# Name: Facility Address: SIC/NAICS Code: State Code: City: State: Contact: Phone: Fax: (BILLING INFORMATION AME AS ABOVE Company Name: Address Zip Code: State: City: Attention Phone WASTE INFORMATION Name of Waste/Common Chemical Name: Nickel Plating Solution Process Generating Waste (Please be specific, incomplete information may delay the approval process): Bulked at TSDF USEPA / STATE WASTE IDENTIFICATION Hazardous Waste 1. This waste is considered to be: Non Hazardous Liquid Industrial Waste 2. Regulated by TSCA? ☐Yes ☐No (PCBs, etc.) 3. List ALL Applicable Waste Codes: F006 D008 PHYSICAL CHARACTERISTICS OF WASTE Specific Gravity: Color: Suspended Solids Layers: ☐ Multi-Layered ☑ Bi-Layered ☐ 3-5 % ☐ > 5% ☐ White/Clear □ 0-1 % □<0.8 **図** 1.0 – 1.2 □ 0.8 –1.0 □ 1.3 – 1.4 Black/Brown **3** 1-3 % Other Blue/green Single Phase Exact / Other ρŀi: $\square \leq 2 \square 2-4$ ☐ 4 − 6 ⊠ 6 – 8 **⊠** 8 – 10 ☐ 10 – 12.5 ☐ ≥12.5 □ NA Liquid Flash Point: ☐ <73°F ☐ 73 – 100°F ☐ 101 – 140°F ☐ 141 – 200°F ☐ >200°F ☐ None ☐ Closed Cup ☐ Open Cup PPM (MUST BE COMPLETED) VOC CONCENTRATION -TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT >/= 0.1%) CONSTITUENT Nickel Sulfate MAX MIN CONSTITUENT Nickel Chloride 85% 99 σ Sluage Ammonium Chloride

EG7 - 28470 Citrin Drive - Romul	lus - MI - 48174	8			Waste Prof	ile Page 2
Metals: Indicate if this waste contain ☑ Lab Analysis ☑ Gene	ns any of the foll rator Knowledg	owing metals,. If	Generator knowled		do .	
Dioxins	Not Presc omatic Amine sticides denticides ngicides		Barium Cadmi Chrom Lead (I Mercui	i (Ba) D005 um (Cd) D008 ium (Cr) D007 Pb) D008 y (Hg) D009 um (Se) D010		ppm ppm ppm ppm ppm ppm ppm
TCLP Organics D012 - D043 above re	gulatory limits:	Present 🗌 Not	Present 🖾			
IS WASTE ANY OF THE FOLLOWIN Radioactive Water Reactiv NIOSH Human-Positive Carcinog	e 🔲 Oxidize	r 💮 🔲	Must Be Checked. Shock Sensitive zene, etc.)	☐ Reactive (oti ☐ Biological	her) 🗍 DOT E 🔀 None	•
SHIPPING INFORMATION 1. Is this a DOT Hazardous Material 2. Reportable Quantity (RQ) in poun	ds					
3. DOT Shipping Name Environm			~			UN/NA 3082
PG II ERG 171 Hazard					ckel Sulph	nate)
4. Method of Shipment: 5. Number of Units to Ship Now: 6. Special Handling Requirements in	·		□Rail Car □Druted Volume / Units),000 USG	or 🗌 One Time
I hereby represent and warrant that I attached documents. Based on my ir information, the information containe material fact has been omitted as to in the handling and processing of the Technologies not to correct any incomof the sample character. Printed Name: Generator's Signature: GENERATOR'S CHARLEST The waste described in the above reference.	have personally nquiry and perso d herein is true, make this inform waste materials sistencie	enal knowledge of accurate, and constitution misleading therein therein the constitution in the constituti	of those individuals omplete to the best of the best of the less o	responsible for s of my knowledge t others may rely cked [], I reque chnologies make Title: Date S: PLEASE Colle an appropriate c	supplying or obta e and belief. Fur y on this represer est Environmenta es will be consist e: 6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8	ining the rithermore, no nation and warranty i Geo-
one obtained using any of the applica provided below. If you have problems representative.	ble sampling me	ethods cited in 40	D CFR 261-Append	ix 1. Fill in the s	sampling informa	tion in the spaces
SAMPLING METHOD 3. SAMPLE COLLECTOR'S NAME,	COLLECTION			·	·	
4. Sample No Pr	eservation: Y	es 🗌 No 🗌	l			
E CUAIN OF CHISTORY Foot on						
5. CHAIN OF CUSTODY Each pe	rson who handle	s the sample m	ust sign below whe			
Relinquished by: (Signature)	rson who handle Date	s the sample m	ust sign below whe Receiv (Signa	ed by:	sses from one to Date	another. Time

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC 28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile Profile # OO 52 F

GENERATOR INFORMATION		
Name:	USEPA ID#	•
Facility Address:	SIC/NAICS Code: State Code:	
City:	State: Zip Code:	
Contact BILLING INFORMATION	Phone: Fax: () Fax: ()	
Company Name:		
Address:		
City:	State:Zip Code:	
Attention:	Phone: Fax:	
WASTE INFORMATION		- Control of
Name of Waste/Common Chemical Name:		
Sodium Hydroxide	·	
Process Generating Waste (Please be specific, incomple Bulked at TSDF	ete information may delay the approval process):	
201100 00 1021		
		—
USEPA / STATE WASTE IDENTIFICATION		
	ious Liquid Industrial Waste 🖺 Hazardous Waste	
2. Regulated by TSCA? Yes ANo (PCBs, etc.)		
3. List ALL Applicable Waste Codes: D002 F007	<u>F009</u>	
PHYSICAL CHARACTERISTICS OF WASTE		
Color: Suspended Solids ☐ White/Clear ☐ 0-1 % ☐ 3-5 % ☑ Black/Brown ☑ 1-3 % ☐ > 5% ☐ Other ☐ Other	Layers: Specific Gravity: ☐ Multi-Layered ☐ <0.8 図 1.0 - 1.2 ☐ 0.8 -1.0 ☐ 1.3 - 1.4 ☐ Single Phase Exact / Other	Annual processing and the second
pH:	☐ 6 - 8 ☐ 8 - 10 ☐ 10 - 12.5 図 <u>></u> 12.5	
Liquid Flash Point:	- 140°F	
VOC CONCENTRATION - 0	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		- % - %
Water Sludge	99 - 85 %	- % - %
		%

EGT - 28470 Citrin Drive - Romul	us - MI - 48174	1		Waste Prof	ie – Page 2
- Metals: Indicate if this waste contain Lab Analysis Generation	ns any of the folk rator Knowledg			le backup OTAL	
Dioxins ppm Pe Cyanides Reactive ppm Ro	Not Prese pr		Arsenic (As) Barium (Ba) Cadmium (Cd) Chromium (Cr) Lead (Pb) Mercury (Hg) Selenium (Se) Silver (Ag)	D004	ppmppmppmppmppm
TCLP Organics D012 - D043 above re	julatory limits:	Present 🗌 Not	Present 🖾		
IS WASTE ANY OF THE FOLLOWIN ☐ Radioactive ☐ Water Reactiv ☐ NIOSH Human-Positive Carcinog	e 🔲 Oxidize	r - 🗆		` ' ===	Explosives Apply
SHIPPING INFORMATION 1. Is this a DOT Hazardous Material 2. Reportable Quantity (RQ) in poun 3. DOT Shipping Name Waste Co.	ds		,	Hazard Class ⁸	UN/NA 3266
PG II ERG 154 Hazard					
4. Method of Shipment: 5. Number of Units to Ship Now: 6. Special Handling Requirements in				Totes 200,000 USG	_ or ☐ One Time
CERTIFICATION STATEMS I hereby represent and warrant that I attached documents. Based on my ir information, the information containe material fact has been omitted as to in the handling and processing of the Technologies not to correspond to the sample characterial Printed Name:	have personally equiry and perso d herein is true, make this inform	nal knowledge of accurate, and co nation misleading described bereit	of those individuals respons complete to the best of my kr p. I understand that others	ible for supplying or obta nowledge and belief. Fu may rely on this represe I request Environmenta es makes will be consist Title:	ining the rthermore, no ntation and warranty I Geo-
GENERATOR'S CHAIR OF the waste described in the above refe one obtained using any of the applica provided below. If you have problems representative.	renced GENERAL ble sampling me	rors Waste Pro ethods cited in 4	FILE REPORT using an appro CCFR 261-Appendix 1. Fil	priate container. A repr	esentative sample is
12. SAMPLING METHOD 3	COLLECTION				
SAMPLE COLLECTOR'S NAME, 4. Sample No. Pr					
· · · · · · · · · · · · · · · · · · ·			ust sign below when the sa	mple passes from one tr	another
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
			The same of the sa		

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC 28470 Citrin Dr., Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator	Waste	Profile
	55 TO 15 SH	TOTAL METERS OF THE

GENERATOR IN	ORMATION			•	
Name			USE	PA ID #	· · · · · · · · · · · · · · · · · · ·
Facility Address:			SIC/N	IAICS Code:State	Code:
City: _			State:	Zip Code:	
Contact.		Title	Phone:	Fax: ()
BILLING INFORM	ATION	- Sk	SAME AS ABOVE	and the second s	
Company Name:		<u> </u>	J-		
Address:			· · · · · · · · · · · · · · · · · · ·		
City:			State:	Zip Code:	
Attention		<u> </u>	Phone: (Fax:	
Pickling	g Waste (Please <i>be :</i> of Steel	specific, incomp	lete information may delay th	e approvar processj;	
rocess Generating) Waste (Please be	specific, incomp	iete information may delay ti	e approvai process):	
Pickling	g Waste (Please be : of Steel	specific, incomp	lete information may delay th	e approvai processj:	
Pickling	g Waste (Please be : of Steel	specific, incomp	lete information may delay th	e approvai processj:	
Pickling	g Waste (Please be s of Steel	specific, incomp	lete information may delay the	e approvai processj:	
Pickling	g Waste (Please be s of Steel	specific, incomp	lete information may delay the	e approvai process):	
Pickling	g Waste (Please be a of Steel		lete Information may delay t	e approvai process):	
Pickling SEPA/STATE W This waste is co	of Steel ASTE IDENTIFICAT	TON ☐ Non Hazard	lete Information may delay the		
Pickling SEPA/STATE W This waste is co Regulated by TS	Of Steel ASTE IDENTIFICAT Insidered to be:	TON ☐ Non Hazard ○ (PCBs, etc.)	lous Liquid Industrial Waste	🕮 Hazardous Waste	
Pickling SEPA/STATE W. This waste is co Regulated by TS	ASTE IDENTIFICAT residered to be:	TON ☐ Non Hazard ○ (PCBs, etc.) ○ 002 □ 006		🕮 Hazardous Waste	
Pickling SEPA/STATE W This waste is co Regulated by TS List ALL Applica	OF Steel ASTE IDENTIFICAT Insidered to be: ICA? Tyes AND DIE Waste Codes: D	Non Hazard (PCBs, etc.) 002 D006	lous Liquid Industrial Waste D007 D008 K0		
Pickling SEPA/STATE W This waste is co Regulated by TS List ALL Applica HYSICAL CHARA Color: White/Clear	ASTE IDENTIFICAT residered to be: ICA? Tyes And Die Waste Codes: D ICTERISTICS OF W Suspended T 0-1 %	Non Hazard (PCBs, etc.) 002 D006 ASTE I Solids	lous Liquid Industrial Waste D007 D008 K0 Layers: ☐ Multi-Layered	Mazardous Waste 52 Specific Gravity: □<0.8 □ 1.0 – 1.2	acessell
Pickling SEPA/STATE W This waste is co Regulated by TS List ALL Applica HYSICAL CHARA Color:	ASTE IDENTIFICAT Insidered to be: ICA? Yes Management Management ICTERISTICS OF W Suspended	Non Hazard (PCBs, etc.) 002 D006 ASTE	lous Liquid Industrial Waste D007 D008 K0	Hazardous Waste 52 Specific Gravity:	
Pickling SEPA/STATE W. This waste is co Regulated by TS List ALL Applica HYSICAL CHARA Color:	ASTE IDENTIFICAT Insidered to be: ICA? Yes Management Management ICTERISTICS OF W Suspended	Non Hazard (PCBs, etc.) 002 D006 ASTE I Solids 3-5 % > 5%	lous Liquid Industrial Waste D007 D008 K0 Layers: Multi-Layered Bi-Layered Single Phase	Mazardous Waste 52 Specific Gravity: □<0.8 □ 1.0 – 1.2 □ 0.8 –1.0 M 1.3 – 1.4	070314
Pickling SEPA/STATE W This waste is co Regulated by TS List ALL Applica HYSICAL CHARA Color: White/Clear Black/Brown Cother GREE H: NA	ASTE IDENTIFICAT residered to be: ICA? Tyes AND DIE Waste Codes: D CTERISTICS OF W Suspended	Non Hazard (PCBs, etc.) 002 D006 ASTE Solids	lous Liquid Industrial Waste D007 D008 K0 Layers:	M Hazardous Waste 52 Specific Gravity: □ < 0.8 □ 1.0 − 1.2 □ 0.8 − 1.0 ☑ 1.3 − 1.4 Exact / Other 0 □ 10 − 12.5 □ ≥ 12.	070314
Pickling SEPA/STATE W This waste is co Regulated by TS List ALL Applica HYSICAL CHARA Color: White/Clear Black/Brown Cother GREE H: NA	ASTE IDENTIFICAT residered to be: ICA? Tyes AND DIE Waste Codes: D CTERISTICS OF W Suspended	Non Hazard (PCBs, etc.) 002 D006 ASTE Solids	lous Liquid Industrial Waste D007 D008 K0 Layers: Multi-Layered Bi-Layered Single Phase	M Hazardous Waste 52 Specific Gravity: □ < 0.8 □ 1.0 − 1.2 □ 0.8 − 1.0 ☑ 1.3 − 1.4 Exact / Other 0 □ 10 − 12.5 □ ≥ 12.	070314
Pickling SEPA/STATE W. This waste is co Regulated by TS List ALL Applica HYSICAL CHARA Color: White/Clear Black/Brown Cother GREE H: NA G	ASTE IDENTIFICAT residered to be: ICA?	Non Hazard (PCBs, etc.) 002	lous Liquid Industrial Waste D007 D008 K0 Layers:	Mazardous Waste Specific Gravity:	070314
Pickling SEPA/STATE W. This waste is co Regulated by TS List ALL Applica HYSICAL CHARA Color: White/Clear Black/Brown Other GREE H: NA Quid Flash Point	ASTE IDENTIFICAT Insidered to be: ICA?	Non Hazard (PCBs, etc.) 002 D006 ASTE Solids	Layers: Multi-Layered Bi-Layered Single Phase 6 - 8 8 - 1	A Hazardous Waste 52 Specific Gravity:	0 70 314 5 osed Cup ☐ Open Cup
Pickling SEPA/STATE W. This waste is co Regulated by TS List ALL Applica HYSICAL CHARA Color: White/Clear Black/Brown Other GREE H: NA G quid Flash Point: CC CONCENTRATIO DTAL COMPOSIT	ASTE IDENTIFICAT Insidered to be: ICA?	Non Hazard (PCBs, etc.) 002 D006 ASTE Solids	Layers: Multi-Layered Bi-Layered Single Phase 6 - 8	A Hazardous Waste Specific Gravity:	5 O Jo 314 5 O Jo 314 5 Open Cup WAX M
Pickling SEPA/STATE W. This waste is co Regulated by TS List ALL Applica HYSICAL CHARA Color: White/Clear Black/Brown Other GREE H: NA Quid Flash Point: CC CONCENTRATIO OTAL COMPOSIT ONSTITUENT Sydrochloric GUITUTIC ACID	ASTE IDENTIFICAT residered to be: ICA? Tyes And Die Waste Codes: D CTERISTICS OF W Suspended To-1 % A 1-3 % S 2 2 2 4 C73°F 73- N- 0 ION OF WASTE - M Acid	Non Hazard O (PCBs, etc.) O 0 2 D 0 0 6	Layers: Multi-Layered Bi-Layered Single Phase 6 - 8	M Hazardous Waste Specific Gravity:	0 70 314 5 seed Cup ☐ Open Cup (%)

EG7 - 28470 Citrin Drive - Romul	<u>us – Mi – 48174</u>				Waste Profil	e Page 2
Metals: Indicate if this waste contain 図 Lab Analysis 図 Gener	s any of the folk ator Knowledg		Generator knowledge-pro	ovide backup XTOTAL		•
Dioxins ppm Pecyanides Reactive ppm Ro Cyanides Total ppm Fur Sulfides Total ppm Sulfides Total ppm	Not Prese	ppm ppm ppm ppm	Arsenic (As) Barium (Ba) Cadmium (C Chromium (C Lead (Pb) Mercury (Hg Selenium (S Silver (Ag)	D005 d) D006 cr) D007 D008) D009	※ < 5 ppm	>1 ppm >1 ppm >5 ppm >5 ppm ppm ppm ppm ppm ppm
TCLP Organics D012 - D043 above re	guiatory timits:	Present [] Mot P	Assaut Eri		0.000	
IS WASTE ANY OF THE FOLLOWIN ☐ Radioactive ☐ Water Reactiv ☐ NIOSH Human-Positive Carcinog	e	г 🔲 🤄		eactive (othe	er) [] DOT E None A	•
SHIPPING INFORMATION						
1. Is this a DOT Hazardous Material	(49CFR 172.10	1 & 173 Subpart	D)? 图Yes □No .			
2. Reportable Quantity (RQ) in poun		,	,			
3. DOT Shipping Name Waste Co		quid, Acidio	r, Inorganic, no	s Hazard	Class 8	UN/NA 3264
PG II ERG 154 Hazard	ous Constituents	s for "n.o.s."(]	nydrochloric	or sulf	uric acid	1)
4. Method of Shipment:	⊠Buik Tanker	□Vac truck [Rail Car Drums	Totes		
Number of Units to Ship Now:					,000 USG	_ or 🔲 One Time
6. Special Handling Requirements in						
CERTIFICATION STATEME	TO STP					-
I hereby represent and warrant that I attached documents. Based on my in information, the information containe material fact has been omitted as to in the handling and processing of the Technologies not to correspond to the sample characterize. Printed Name: Generator's Signature:	have personally equiry and perso d herein is true, make this inform	nal knowledge of accurate, and co nation misleading described havein	f those individuals resp implete to the best of m . I understand that oth	onsible for si y knowledge ers may rely , i reques	upplying or obta and belief. Fur on this represer at Environmenta s will be consist	ining the rthermore, no ntation and warranty I Geo- ent with the results
GENERATOR'S CHAI			TRUCTIONS	PI EASE COILE	ct a renresenta	tive 1-quart_sample o
the waste described in the above reference one obtained using any of the application provided below. If you have problems representative.	ble sampling me	ethods cited in 40	FILE REPORT using an ap CFR 261-Appendix 1.	opropriate co Fill in the sa	ontainer. A repreampling informa	esentative sample is tion in the spaces
12. SAMPLING METHOD	COLLECTIO	n point				
3. SAMPLE COLLECTOR'S NAME,	TITLE, EMPLO	YER				
4. Sample No P	reservation: Y	es 🔲 🛚 No 🖂				
5. CHAIN OF CUSTODY Each pe	rson who handle	es the sample m	ıst sign below when the	sample pas	sses from one to	another.
Relinquished by: (Signature)	Date	Time	Received t (Signature	y:	Date	Time
	 	 	 			

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC 28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

GENERATOR INFORMATION	
Name USEPA ID#	_
Facility Address: SIC/NAICS Code: State Code:	
City:State Zip Code:	_
	-
BILLING INFORMATION Phone: Fax: () SAME AS ABOVE	.
Company Name:	
Address:	
City: State: Zip Code:	-
Attention:Fax	-
WASTE INFORMATION	
Name of Waste/Common Chemical Name:	
Mineral Acids	
Process Generating Waste (Please be specific, incomplete information may delay the approval process): Bulked at TSDF	
USEPA / STATE WASTE IDENTIFICATION	
1. This waste is considered to be: Non Hazardous Liquid Industrial Waste	
2. Regulated by TSCA? ☐Yes ☐No (PCBs, etc.) 3. List ALL Applicable Waste Codes: D002 D004 D005 D006 D007 D008 D009 D010 D011	
3. List ALL Applicable Waste Codes: <u>D002</u> <u>D004</u> <u>D005</u> <u>D006</u> <u>D007</u> <u>D008</u> <u>D009</u> <u>D010</u> <u>D011</u>	
PHYSICAL CHARACTERISTICS OF WASTE	ACCORD
Color: Suspended Solids Layers: Specific Gravity: □ 0-1 % □ 3-5 % □ Multi-Layered □ -0.8 □ 1.0 - 1.2 □ Black/Brown □ Other GREEN Single Phase □ Single Phase Specific Gravity: □ -0.8 □ 1.0 - 1.2 □ 0.8 -1.0 □ 1.3 - 1.4 □ Single Phase □ 0.8 -1.0 □ 1.3 - 1.4 □ 0.34	
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 PPN (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>\</u>
Hydrochloric Acid 15 . 0 %	_ _%
Water 95 85 % Sludge 5 %	-% -%

EGT - 28470 Citrin Drive - Romult	<u> 18 – (H1 – 48174</u>	· · · · · · · · · · · · · · · · · · ·			Waste Profil	e – Page <u>2</u>
Metals: Indicate if this waste contains Lab Analysis Genera	s any of the follo ator Knowledge		Generator knowledg	je-provide backuş ☑TOTAL		·
Dioxins ppm Pes Cyanides Reactive ppm Roo	Not Prese matic Amine ticides lenticides gicides	ppm ppm ppm ppm	Chromi Lead (F Mercur Seleniu Silver ((Ba) D005 Im (Cd) D006 um (Cr) D007 Pb) D008 y (Hg) D009 im (Se) D010	<pre></pre>	>5 ppm >100 ppm >1 ppm >5 ppm >5 ppm >5 ppm >6 ppm >6 ppm >7 ppm
I OF LOSSINO DATE DATE WAS A SECOND					and the second s	
IS WASTE ANY OF THE FOLLOWIN Radioactive Water Reactive NIOSH Human-Positive Carcinoge	e 🔲 Oxidizer	· 🗀 :		☐ Reactive (oth ☐ Biological	er) DOTE:	-
SHIPPING INFORMATION						
1. Is this a DOT Hazardous Material	49CFR 172.101	l & 173 Subpart	D)? XYes [No		•
Reportable Quantity (RQ) in pound		, G, (, 5 Gaspara	-). <u>-</u>			
3. DOT Shipping Name Waste Co.		quid, nos		Hazar	d Class 8	UN/NA 1760
PG II ERG 154 Hazardo	us Constituents	for "n.o.s."(hydrochlor:	ic <i>or</i> sulf	uric acid)
4. Method of Shipment:	⊠Bulk Tanker	□Vac truck	Rail CarDru	ıms		
Number of Units to Ship Now: Special Handling Requirements inc			ed Volume / Units		,000 USG	or One Time
CEDTIEICA TIONI STATEME	:NIT					
thereby represent and warrant that I is attached documents. Based on my in information, the information contained material fact has been omitted as to not the handling and processing of the Technologies not to correctly of the sample characterial.	nave personally quiry and perso I herein is true, nake this inform	nal knowledge o accurate, and oc ation misleading described hereir	of those individuals complete to the best of understand that of this box is che	responsible for s of my knowledg t others may rely cked □, I reque chnologies mak	supplying or obta e and belief. Fur on this represer st Environmental	ining the thermore, no station and warranty
Printed Name:				Titlé		
Generator's Signature:				Dat	e: <u>6/30</u>	12014
GENERATOR'S CHAIN OF the waste described in the above refer one obtained using any of the applicat provided below. If you have problems representative.	renced GENERAT	ors Waste Pro thods cited in 40	FILE REPORT using CFR 261-Append	an appropriate o	ontainer. A represampling informati	esentative sample is tion in the spaces
1222.	COLLECTION	I BOINT				
	~~===V ((U)	4 L A HA I				
3. SAMPLE COLLECTOR'S NAME,	title, emplo	YER				
4. Sample No Pr	eservation: Y	es 🗌 No 🗌		<u> </u>		
	son who handle	s the sample m	ust sign below who			
Relinquished by: (Signature)	Date	Time		ved by: ature)	Date	Time
Į.	4					

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC 28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

GENERATOR INFORMA				
Name:		USEPA	A ID#	
Facility Ad		SIC/NA	ICS Code: State Cod	e:
City:		State	Zip Gode:	
Cont	itle:	Phone:)_	
BILLINGINFORMA			The second secon	
Company Name		<i>*</i>	•	
Address:				
Gity:		State:	Zip Code:	<u> </u>
Attention:		Phone:	k:()_	
WASTE INFORMATION Name of Waste/Comm Vo tass sur Process Generating Waste U MUSCAL	11 1 1		approval process):	
USEPA / STATE WASTE II 1. This waste is considered 2. Regulated by TSCA? [3. List ALL Applicable Was	to be: Non Hazardo	ous Liquid Industrial Waste	Hazardous Waste	
PHYSICAL CHARACTERIS Color:	STICS OF WASTE Suspended Solids	T 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Specific Gravity:	110
☐ White/Clear ☐ Black/Brown ☐ Other	☐ 0-1 % ☐ 3-5 % ☐ 1-3 % ☐ > 5%	Layers: Multi-Layered Bi-Layered Single Phase	☐<0.8 ☐ 1.0 − 1.2 ☐ 0.8 −1.0 ☐ 1.3 − 1.4 Exact / Other	87.03.19
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	I Cup ☐ Open Cup
VOC CONCENTRATION	<u> <10</u>	PPM (MUST BE COMPLETED)		
TOTAL COMPOSITION OF	WASTE - MUST BE EQUAL TO	OR GREATER THAN 100% (LIST E	ACH CONSTITUENT >/= 0.1%)	
CONSTITUENT POTASSIAM PHO	(MC/OL0	MAX MIN CONSTI	TUENT	MAX MIN

EGT - 28470 Citrin Drive - Romule	us - Mi - 48174		Waste Profile - Page 2				
Metals: Indicate if this waste contains any of the following metals. If Generator knowledge-provide backup Lab Analysis TOTAL							
Dioxins Sppin Pes Cyanides Reactive Sppin Roo	Not Concentration Present mails Anine	Arsenic (As) D004 Barium (Ba) D005 Cadmium (Cd) D005 Chromlum (Cr) D007 Lead (Pb) D008 Mercury (Hg) D009 Selenjum (Se) D010 Silver (Ag) D011	S ppm ppm ppm				
TCLF Organics D012 - D042 above regulatory limits: Present ☐ Not Present ☐							
IS WASTE ANY OF THE FOLLOWIN Radioactive: Water Reactive NIOSH Human-Positive Carcinoge	e ☐ Öxidizer ☐ Sho	ock Sensitive Reactive (oth	er). DOT Explosives None Apply	ner'			
SHIPPING INFORMATION	•						
1. Is this a DOT Hazerdous Material	(49CFR 172.101 & 173.Subpart D)	? DVes □No					
2. Reportable Quantity (RQ) in pound	17 12 24 1	**					
3. DOT Shipping Name			100 Class 8 UNINA 1760	٠.			
PG A ERG 154 Hazardo	· · · · · · · · · · · · · · · · · · ·						
	□Bulk Tanker □Vac truck □F						
Number of Units to Ship Now: Special Handling Regularments in		Volume / Units per Year:	or Prone Time	ila.			
CERTIFICATION STATEME	NT						
I hereby represent and warrent that it attached documents. Based on my in information, the information contained material fact has been emitted as to in the handling and processing of the Technologies not to parcet according to the sample char	quint and personal knowledge of the street is true, accurate, and compared to the street in the stre	nese Individuals responsible for s dete to the best of my knowledge understand that others may rely f this box is checked □. I reque	upplying ar obtaining the and belief. Furthermore, no on this representation and warranty				
Printed Name:		Title:	ottico managei	لمنظم			
Generator's Signat		Date:	Walst	مبته			
GENERATOR'S CHAIN OF the waste described in the above refer one obtained using any of the applical provided below. If you have problems	renced Generators Waste Profits de sampling methods cited in 40 C	TKOCTIONS: PLEASE colle REPORT USING AN Appropriate of FR 261-Appendix 1. Fill in the s	ontainer. A representative sample is ampling information in the spaces	f			
representative.	-Axistinin 8 ser Abid Satistic a seruble	en and section and section of the se	, or tualionitiental gen-reculimodies	e F			
1, 2.			vor Eustromienten Geb-rechtmobles				
1. 2. SAMPLING METHOD 3. SAMPLE COLLECTOR'S NAME,	COLLECTION POINT		or Environmental Geo-reculturogles	O.A.			
12. SAMPLING WETHOD 3. SAMPLE COLLECTOR'S NAME,	COLLECTION POINT		or Environmental Geo-recultulogies	COR.			
1	COLLECTION POINT TITLE, EMPLOYER esservation: Yes [] No []						
1	COLLECTION POINT						

MSDS Number: P5887 * * * * * Effective Date: 11/02/01 * * * * * Supercedes: 11/17/99



Material Safety Data Sheet

From: Mailinckrodt Seker, Inc. 222 Red School Lane Phillipsburg, NJ 08885





24 Hour Emergency Tolephone: 906-969-2151 CHEMTREC: 1-606-424-9200

Malional Response in Canada CANUTEC: 619-019-0566

Outelde U.S. and Careda Chemitres: 703-527-3687

NOTE: CHEMITIEC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a gill, look, fire, expense or quoiders involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

POTASSIUM HYDROXIDE (10 - 45%) Solutions and Concentrates

1. Product Identification

Synonyms: Caustic potash - liquid or solutions; Potassium hydrate

CAS No.: 1310-58-3 (Potassium hydroxide)

Molecular Weight: 56.11

Chemical Formula: KOH (10 - 45% in water)

Product Codes:

J.T. Baker: 3143, 3144, 3148, 3149, 3154, 3170, 3171, 3172, 4673, 4674, 5379

Mallinckrodt: 6671, 6968, H061, H320, V034

2. Composition/Information on Ingredients

Ingredient Hazardous	CAS No	Percent
Potassium Hydroxide Yes	1310-58-3	10 - 45%
Water No.	7732-18-5	55 - 90%

3. Hazards Identification

Emergency Overview

POISON! DANGER! CORROSIVE. CAUSES SEVERE BURNS TO SKIN, EYES, RESPIRATORY TRACT, AND GASTROINTESTINAL TRACT. MATERIAL IS EXTREMELY DESTRUCTIVE TO ALL BODY TISSUES. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED.

J.T. Baker SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Poison)

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;

PROPER GLOVES

Storage Color Code: White Stripe (Store Separately)

Potential Health Effects

Inhalation:

Respiratory tract irritant, may cause serious burns on acute contact. Severe injury is usually avoided by the self-limiting coughing and sneezing symptoms.

Ingestion:

Toxic! Corrosive to mucous membranes and may cause perforation of the esophagus and stomach. Abdominal pain, nausea, vomiting, general gastro-intestinal upset can be expected.

Skin Contact:

Irritant, possibly corrosive if contact is prolonged. Soreness, redness, destruction of skin may result.

Eye Contact:

Irritant, possibly corrosive to eye tissues. Tearing, redness, pain, impaired vision are symptoms.

Chronic Exposure:

Development of a defatting dermatitis on prolonged contact with potassium hydroxide has been reported. Continued irritation may lead to increased susceptibility to respiratory illness.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems, or impaired kidney or respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician. Eve Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire. Avoid direct contact of liquid with water.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

J. T. Baker NEUTRACIT®-2 or BuCAIM® caustic neutralizers are recommended for spills of this product.

7. Handling and Storage

Keep in a tightly closed container. Store in a cool, dry, ventilated area. Protect against physical damage. Separate from acids and alkalis. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

For Potassium Hydroxide [1310-58-3]:

- OSHA Permissible Exposure Limit (PEL):
- 2 mg/m3 Ceiling
- ACGIH Threshold Limit value (TLV):
- 2 mg/m3 Ceiling

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the

appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Clear, colorless solution.

Odor:

Odorless.

Solubility:

Completely soluble in water.

Specific Gravity:

10% Solution: 1.1 - to- 45% Solution: 1.45

pH:

13.5 (0.1 molar solution)

% Volatiles by volume @ $21\mathbb{C}$ (70F):

90 (as water)

Boiling Point:

10% Solution: 101C (213F) to 45% Solution: 132C (270F)

Melting Point:

10% Solution:-3C (27F) to 45% Solution -29C (-20F).

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

10% Solution: No Information Found - to - 45% Solution: 2 @ 20C (68F)

Evaporation I	Rate (BuAc=	1):
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No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Potassium oxide.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong acids, aluminum, tin, zinc, chlorinated hydrocarbons, acetone.

Conditions to Avoid:

Heat, incompatibles.

11. Toxicological Information

For potassium hydroxide: Oral rat LD50: 273 mg/kg; Investigated as a mutagen. Skin Irritation Data (std Draize, 50 mg/24 H): Human, Severe; Rabbit, Severe. Eye Irritation Data(Rabbit, non-std test,1 mg/24 H, rinse): Moderate.

·			
	- - - NTP	Carcinogen	
Ingredient	Known	Anticipated	IARC
Category			
Potassium Hydroxide (1310-58-3)	No	No .	
None		-	
Water (7732-18-5) None	No ·	No	•

12. Ecological Information

-----\Cancer Lists\----

Environmental Fate:

No information found.

Environmental Toxicity:

Potassium Hydroxide: TLm: 80 ppm/Mosquito fish/ 24 hr./ Fresh water

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION

Hazard Class: 8 UN/NA: UN1814 Packing Group: II

Information reported for product/size: 360LB

International (Water, I.M.O.)

Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION

Hazard Class: 8 UN/NA: UN1814 Packing Group: II

Information reported for product/size: 360LB

15. Regulatory Information

\Chemical Inventory Status - Part 1\				
Ingredient Australia	TSCA	EC	Japan	
Australia				
Potassium Hydroxide (1310-58-3) Yes	Yes	Yes	Yes	
Water (7732-18-5) Yes	Yes	Yes	Yes	

\Chemical Inventory Status - Part	2\			-
			Cana	ada
Ingredient		Korea	DSL	NDSL
Phil.				
Potassium Hydroxide (1310-58-3) Yes		Yes	Yes	No
Water (7732-18-5)		Yes	Yes	No
Yes				
\Federal, State & International Re	gulatio	ons -	Part 1\-	
	-SARA	302-		-SARA
313 Ingredient	DO.	mpo.	T JL	
Chemical Catg.	RQ	TPQ	List	
Potassium Hydroxide (1310-58-3)	No	No	No	
No Water (7732-18-5)	No	No	No	
No	INC	INO	NO	
\Federal, State & International Re	mulatio	າກສ -	Dart 2\-	
	3414616			
TSCA-			-RCRA-	-
Ingredient	CERCLE	<u>.</u>	261.33	8 (d)
-		=	~~~~	
Potassium Hydroxide (1310-58-3)	1000		No	No
Water (7732-18-5)	No	Ţ	No	No
	41. 1	_		
Chemical Weapons Convention: No TSCA 12 SARA 311/312: Acute: Yes Chronic: Yes				No No
Reactivity: Yes (Pure / Liquid)	·			

Australian Hazchem Code: 2R

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 1

Label Hazard Warning:

POISON! DANGER! CORROSIVE. CAUSES SEVERE BURNS TO SKIN, EYES, RESPIRATORY TRACT, AND GASTROINTESTINAL TRACT. MATERIAL IS EXTREMELY DESTRUCTIVE TO ALL BODY TISSUES. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED.

Label Precautions:

Do not breathe mist.

Do not get in eyes, on skin, or on clothing.

Avoid breathing mist.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Label First Aid:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. In all cases get medical attention immediately.

Product Use:

Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 8.

Disclaimer:

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS

INFORMATION.

Prepared by: Environmental Health & Safety

Phone Number: (314) 654-1600 (U.S.A.)

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC 28470 Citrin Dr., Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

Profile # 6053

GENERATOR INFOR	WATION			-
Name:		USEP	A ID#	
Facility Address:		SIC/NA	AICS Code: State Cor	le:
City:		:State:	Zip Code:	
Contact	<u> </u>	?hone: (Fa	2
BILLING INFORMATI	ON	SAME AS ABOVE	TO TOTAL TOTAL	
Company Name:				-
Address:				
Citys		State:	Zip Codet,	
Attention:	And the same of th	Phone:	Fax: (<u> </u>
Benwar conta Process Generating W Removal of Lig USEPA/STATE WAST	MI from MM VST TE IDENTIFICATION: ered to be; □ Non Hazar ? □Yes ☑No (POBs, etc.)	plète information may delay the	approval process): Process):	
PHYSICAL CHARACT			THE RESIDENCE OF THE PROPERTY	
Color:	Suspended Solids ☐ 0:4 % ☐ 3-5 % ☐ 4-3 % ☐ > 5%	Layers: Multi-Layered Bi-Layered Single Phase	Specific Gravity: □<0.8	07.15,14
PH: INA IS	2 2 - 4 1 4 - 6	№ 6-8	□ 10 - 12.5 □ ≥12.5	
Liquid Flash Point:	<78%F □ 73~100%F □ 101	-140°F 💆 141 - 200°F 🔘	200°F □ None SColosed	Cup Dper Cup
VOC CONCENTRATION .	M4X 100	PPM (MUST BE COMPLETED)		
TOTAL COMPOSITION	OF WASTE - MUST BE EQUAL TO	O OR GREATER THAN 100% (UST E	ACH CONSTITUENT >/= 0.1%)	
CONSTITUENT		MAX MIN CONSTI	TUENT	MAX MIN
_ivater _bevleve		<u> 49.99-99.99 %</u> %		
		%		
		%		

EGT - 28470 Citrin Drive - Rom	<u>ulus – MI – 481</u>	74		Waste Profile - Page 2
Metals: Indicate if this waste conta	ins any of the fo erator Knowled	ollowing metals,.	If Generator knowledge-provide ☐/TCLP ☐TO	backup
Dioxins P ppm P Cyanides Reactive P ppm R	Pre rometic Amine [i esticides [i odenticides [i ungloides [i ungloides [i]	sent ppm ppm ppm ppm ppm ppm ppm	Badum (Ba) Cadinlum (Cd) Chromium (Cr) Lead (Pb) Mercury (Hg) Selenium (Se) Silver (Ag)	D004
IS WASTE ANY OF THE FOLLOW! ☐ Radioactive ☐ Water Reacti ☐ NIOSH Human-Resitive Carcino	ve 🔲 Oxidiz	er 🗆	Must Be Checked. Shock Sensitive	
SHIPPING INFORMATION 1. Is:this a DOT Hazardous Materia		01.8 173 Sübna	t D)? ☑Yes □No	
2. Reportable Quantity (RQ) in pour		on with a principal	(<u> </u>	
3, DOT Shipping Name 14 30 82,		ous waste,	ligned as s	Jazard Class 9 (JINA) 2082
PG T ERG 171 Hazard	ous Constituen	ts for "n.ø.s." <u></u>	Redresse. Doll	·
4. Method of Shipment:		r 🔲 Vac truck	☐Rail Car ☐Drums: ☐To	ntes
5. Number of Units to Ship Now:			ted Volume / Units per Year: _	m (42)
6. Special Handling Requirements in	iduding PPE:	NICOTOR CONTRACTOR CON		
attached documents. Based on my it information, the information contains material fact has been emitted as to in the handling and processing of the	have personally nquiry and perso d herein is true; make this inform waste material sistencies. Any	onal knowledge accurate, and o nation misleadin described herei corrections En	of those individuals responsible omplete to the best of my know g. I understand that others ma n. If this box is checked l⊐√r	riedge and belief. Furthermore, no v rely on this representation and warra
make the street of the street				
the waste described in the above refe one obtained using any of the applica	renced Genera ble sampling me	TORS WASTE PRO ethods cited in 4	FILE REPORT using an appropri 0 GFR 261-Appendix 1. Fill in	collect a representative 1-quart_samp ate container. A representative sample the sampling information in the spaces act your Environmental Geo+Technolog
1. SAMPLING METHOD	COLLECTIO	N POINT		
3. SAMPLE COLLECTOR'S NAME,	TITLE, EMPLO	YER		
4. Sample No. Pr	eservation: Y	es 🗌 No 🗎		
5. CHAIN OF CUSTODY Each pel	son Who handle	es the sample m	ust sign below when the samp	le passes from one to another.
Relinquished by: (Signature)		,	Received by: (Signature)	Date Time
	Date	Time	faiSunteriel	

					0053	Carrier
	WASTE M	IATERIAL PI	ROFILE	PRO	FILE#: 071714-01	
Account #: Suffix Code:		 	Code:			
Salesperson: Employee #: A. CUSTOMER INFORMATION		Email:	CH1- : P D: II		ver/ Reclaimable 🔲	%
A. CUSTOMER INFORMATION Generator		Rilli	☐ Check if Billing Company	ing Adaress is inc	Same as Generator Addre	
Facility Address (No P.O. Box)	<u> </u>		ng Company ng Address		Continue of the more profession	
Pacifity Address (NOT. O. DOA)	· · · · · · · · · · · · · · · · · · ·		ng Adaress State/Zip	v -1-10 - 55, 6	202-201-201-1	
City/State/Zip			ng Contact			
Technical Contact		Phor		1	FAX	
Phone FAX		Ema				
NAICS#CESQG ☐ SQG ☐ LQG	G EPA II	D#	The state of the s	State ID#	1	
B. SHIPPING INFORMATION US DOT Shipping Name NA1993, WASTE Combustit	A SCHOOL A	OS (ACETON	E RRETHANOL)	pe III		
	v/na#		acking Group	ru III	RO	
Size Container Type tanker		Quantity		Frequency	500,000 gallons annual	· · · · · · · · · · · · · · · · · · ·
C. GENERAL MATERIAL & REGULATORY INFORM				^	~~~,~~ <u></u>	
Name of Material F-coded waste water						
Process Generating the Material Filtration, distillation,	bulking of pro					
Yes No		Yes No				
X Regulated or Licensed Radioactive Waste			ontains UHCs/Cons			
X Regulated Medical/Infectious Waste		D.	kempt Waste: If yes oes waste contain, o	•	dioxin-listed wastes with 1	F020-
X Waste Subject to Benzene NESHAP regulation		□ ^ F(023 or F027 waste c			
X TSCA Regulated PCB Waste: List PCB level	l in section D	☐ X St	ate Hazardous Wast	te: List Codes	D006 D007 D008 D035	·
	•					-
<u> </u>					F003 F005 U002 U154	•
X Regulated Ozone Depleting Substance CERCLA Regulated (Superfund) Waste			PA Hazardous Wast	-	U159 U161	<u> </u>
X CERCLA Regulated (Superfund) Waste		Source Code G _	_ Form Code W _	_ Mgt. Method H	<i>U159 U161</i>	
D. MATERIAL COMPOSITION (Range Total > or =		Source Code G _	_ Form Code W _	_ Mgt. Method H	U159 U161 I Yes□ No X Oxidize	
D. MATERIAL COMPOSITION (Range Total > or = Isopropanol	1 - 4	Source Code G E. REAC Yes No	_ Form Code W _ TIVE CHARACTE X React. Sulfides	_ Mgt. Method H	U159 U161 I Yes□ No X Oxidize m Yes□ No X Shock/I	er Explosive
D. MATERIAL COMPOSITION (Range Total > or = Isopropanol Acetone	1-4	Source Code G _ E. REAC Yes \(\text{No} \) Yes \(\text{No} \)	Form Code W ITVE CHARACTE X React. Sulfides X React. Cyanides	Mgt. Method H	Yes□ No X Oxidize Yes□ No X Shock/i Yes□ No X Polyme	er Explosive rizable
X CERCLA Regulated (Superfund) Waste D. MATERIAL COMPOSITION (Range Total > or = Isopropanol Acetone Ethanol	1 - 4 0 - 3 0 - 2	Source Code G E. REAC Yes No Yes No Yes No	Form Code W	Mgt. Method H ERISTICS ppr ppr phoric) React.	Yes□ No X Oxidize Yes□ No X Shock/i Yes□ No X Polyme	er Explosive rizable
X CERCLA Regulated (Superfund) Waste D. MATERIAL COMPOSITION (Range Total > or = Isopropanol Acetone Ethanol Diacetone alcohol	1-4	E. REAC Yes No Yes No Yes No Elemen	Form Code W ITVE CHARACTE X React. Sulfides X React. Cyanides X Water/Air (Pyrop tal Constituents	Mgt. Method H ERISTICS ppr ppr phoric) React. (ppm):	Yes No X Oxidize Yes No X Shock/fi Yes No X Polyme Yes No X Other-C	er Explosive rizable Comments
X CERCLA Regulated (Superfund) Waste D. MATERIAL COMPOSITION (Range Total > or = Isopropanol Acetone Ethanol	1-4 0-3 0-2 0-1	E. REAC Yes No Yes No Yes No Elemen	Form Code W	Mgt. Method H ERISTICS ppr ppr phoric) React. (ppm): Sb	Yes No X Oxidize Yes No X Shock/i Yes No X Polyme Yes No X Other-C	er Explosive rizable Comments
X CERCLA Regulated (Superfund) Waste D. MATERIAL COMPOSITION (Range Total > or = Isopropanol Acetone Ethanol Diacetone alcohol N-methyl pyrrolidone	1-4 0-3 0-2 0-1 0-1	E. REAC Yes \sum No Yes \sum No Elemen No d Be	Form Code W	Mgt. Method H ERISTICS ppr ppr phoric) React. (ppm): Sb Cr	Yes No X Oxidize Yes No X Shock/fi Yes No X Polyme Yes No X Other-C	er Explosive rizable Comments
	1-4 0-3 0-2 0-1 0-1	E. REAC Yes No Yes No Yes No Elemen No d Be Ni 10	Form Code W	Mgt. Method H ERISTICS ppr prohoric) React. (ppm): Sb Cr Ag	Yes No X Oxidize Yes No X Shock/fr Yes No X Polyme Yes No X Other-C As	Explosive rizable Comments
X CERCLA Regulated (Superfund) Waste D. MATERIAL COMPOSITION (Range Total > or = Isopropanol Acetone Ethanol Diacetone alcohol N-methyl pyrrolidone Glycol ethers	1-4 0-3 0-2 0-1 0-1	Source Code G E. REAC Yes \ No Yes \ No Elemen No d Be Ni 10 Metals Dat	Form Code W	Mgt. Method H ERISTICSpprppr choric) React. (ppm): Sb Cr Ag P □Total Analys	Yes	Explosive rizable Comments
	1-4 0-3 0-2 0-1 0-1	E. REAC Yes No Yes No Yes No Elemen No d Be Ni 10 Metals Dat	Form Code W TIVE CHARACTE X React. Sulfides X React. Cyanides X Water/Air (Pyrop tal Constituents etectable Elements Cd Se a based on:TCL	Mgt. Method H ERISTICS ppr ppr choric) React. (pprm):	Yes No X Oxidize Yes No X Oxidize Yes No X Shock/in Yes No X Polyme Yes No X Other-C As Ba Pb 10 Hg Tl V is Generator Knowledge	Explosive rizable Comments
	1-4 0-3 0-2 0-1 0-1	E. REAC Yes No Yes No Yes No Elemen No d Be Ni 10 Metals Dat	Form Code W	Mgt. Method H ERISTICS ppr phoric) React. (ppm): Sb Cr Ag P ☐ Total Analys RISTICS if <73°F)	Yes	Explosive rizable Comments
	1-4 0-3 0-2 0-1 0-1	E. REAC Yes No Yes No Yes No Elemen No d Be Ni 10 Metals Dat F. PHYSI Flash Point T 73<10 X 142<20	Form Code W	Mgt. Method H ERISTICS ppr ppr choric) React. (ppm): Sb Cr Ag PTotal Analys RISTICS if <73°F)	Yes	Explosive rizable Comments e (no testing)
MATERIAL COMPOSITION (Range Total > or = Isopropanol Acetone Ethanol Diacetone alcohol N-methyl pyrrolidone Glycol ethers .Water	1-4 0-3 0-2 0-1 0-1 0-1 balance	Source Code G E. REAC Yes No Yes No Yes No Elemen No d Be Ni 10 Metals Dat F. PHYSIC Flash Point 73<10 X 142<20 # Phases	Form Code W	Mgt. Method H ERISTICS ppr phoric) React. (ppm): Sb Cr Ag P Total Analys RISTICS if <73°F) 4 Liquid 10	Yes	Explosive rizable Comments e (no testing) ≤2 X >4-10 ≥12.5
MATERIAL COMPOSITION (Range Total > or = Isopropanol Acetone Ethanol Diacetone alcohol N-methyl pyrrolidone Glycol ethers .Water x MSDS Attached Total:	1-4 0-3 0-2 0-1 0-1	Source Code G E. REAC Yes No Yes No Yes No Elemen No d Be Ni 10 Metals Dat F. PHYSIC Flash Point 73<10 X 142<20 # Phases	Form Code W	Mgt. Method H ERISTICS ppr ppr choric) React. (ppm): Sb Cr Ag PTotal Analys RISTICS if <73°F)	Yes	Explosive rizable Comments e (no testing)
MATERIAL COMPOSITION (Range Total > or = Isopropanol Acetone Ethanol Diacetone alcohol N-methyl pyrrolidone Glycol ethers .Water	1-4 0-3 0-2 0-1 0-1 0-1 balance	Source Code G E. REAC Yes No Yes No Yes No Elemen No d Be Ni 10 Metals Dat F. PHYSIC Flash Point 73-<10 X 142-<20 # Phases % Sludge	Form Code W	Mgt. Method H ERISTICS ppr ppr phoric) React. (ppm): Sb Cr Ag P Total Analys RISTICS if <73°F) % Liquid 10 % Solid	Yes	Explosive rizable Comments e (no testing) ≤2 X >4-10 ≤12.5
MATERIAL COMPOSITION (Range Total > or = Isopropanol Acetone Ethanol Diacetone alcohol N-methyl pyrrolidone Glycol ethers .Water x MSDS Attached Total: Emergency	1-4 0-3 0-2 0-1 0-1 0-1 balance	Source Code G E. REAC Yes No Yes No Yes No Elemen No d Be Ni 10 Metals Dat F. PHYSIC Flash Point 73-<10 X 142-<20 # Phases % Sludge	Form Code W	Mgt. Method H ERISTICS ppr ppr phoric) React. (ppm): Sb Cr Ag P Total Analys RISTICS if <73°F) % Liquid 10 % Solid	Yes	Explosive rizable Comments e (no testing) ≤2 X >4-10 ≤12.5
MATERIAL COMPOSITION (Range Total > or = Isopropanol Acetone Ethanol Diacetone alcohol N-methyl pyrrolidone Glycol ethers .Water x MSDS Attached Total: Emergency Contact number	1-4 0-3 0-2 0-1 0-1 0-1 balance	Source Code G E. REAC Yes No Yes No Yes No Elemen No d Be Ni 10 Metals Dat F. PHYSI Flash Point 73-<10 X 142-<20 # Phases % Sludge BTU's/ib:	Form Code W	Mgt. Method H ERISTICS ppr ppr choric) React. (ppm): Sb Cr Ag _PTotal Analys RISTICS if <73°F) % Liquid % Solid Specific Gravity	Yes	Explosive rizable Comments e (no testing) □ ≤2 X >4-10 □ ≥12.5

H. GENERATOR'S CERTIFICATION

I hereby certify that I am an authorized agent of the generator, and warrant on behalf of the generator that the information supplied on this form and on any attachments or supplements hereto is complete and accurate, and that all known or suspected bazards of the material(s) described herein have been disclosed. I agree that if the sample test results indicate a discrepancy with any information supplied on this form that either the sample test results indicate a discrepancy with any information supplied on this form that either the sample test results indicate a discrepancy with any information supplied on this form that either the sample test results indicate a discrepancy with any information supplied on this form that either the sample test results indicate a discrepancy with any information supplied on this form that either the sample test results indicate a discrepancy with any information supplied on this form and on any attachments or supplements hereto is

Generator Signature: Printed Name and Title: Date: 7/22/14

RECEIVING	0		
vear and	Ø¢.	APPROVAL	
Santa and the sa			וואודע פ

	NAME & CANADA
RECEIVANG INFORMATION	
Date	7118114
Receiving ID# TK A * AA	Haz Worle Wile
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	posti independir pomo e sa il propose primerio di per mederi salimini presence e
Transporter	
Time in	
Time out	
Received by	J. 17.
Sampled by	Clien
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	· · · · · · · · · · · · · · · · · · ·	
LAB INFORMATION: All Waste Shippanis.		Øinad Birmes ⊘ρjy
Cómpatible? (RT#)	Yes (No)	Barium
PCBs (ppm)(Oily Waste Only)?	NA	Calcium
TOC (ppm)(CC Waste Only)?	NI /A	Total Iron
Flash Point (°F)	130	Magnesium
pH (S.U.)	7.6	Sodium Chloride
Cyanides? (mg/L)	₹30	Bicarbonate
Sulfides? (ppm)	< 200	Carbonate
Specific Gravity	0.99	TDS
Physical Description	Liguida, P	Resistivity
Stream Consistency	Cres No	Sulfate
Oil in Sample	Yes (No)	Canaco
Temperature	72°F	
Conductivity	37 6	· · · · · · · · · · · · · · · · · · ·
% Solids	0.2	
Turbidity	(Yes) No	
Color (visual)	tan	
TSS (%)	0.1	
Radiation Screen (as needed)	Negotive	
Lab Signature		A I JA
	REC04-01-Pag	ge 1

MATERIAL SAFETY DATA SHEET



OTHER:

PRODUCT NAME: F-Code Waste Water

07/09/2008

DATE PRINTED: 7/10/08

ITEM NUMBER: 1HF806

DOT DESCRIPTION: WASTE FLAMMABLE LIQUIDS, N.O.S. (METHANOL),

3, UN1993,III

RQ-F003, F005, D001

I. HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS NUMBER	TLV (PPM)	OSHA PEL (PPM)	%BY WT
Ethanol	64-17-5	1,000	1,000	0-3
Acetone	67-64-1	750	750	0-2
Isopropyl Alcohol	67-63-0	400	400	0-1
Methanol	67-56-1	200	200	0-0.9
N-Methyl-2-Pyrrolidone	872-50-4	Not Estab.	Not Estab.	0-0.9
Toluene	108-88-3	100	100	0-0.9
Methyl Isobutyl Ketone	108-10-1	50	75	0-0.9
Methyl Ethyl Ketone	78-93-3	200	200	0-0.9

SARA 313- SUPPLIER NOTIFICATION

This product contains a toxic chemical or chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Subject chemicals are as follows:

NONE AT LEVELS REQUIRING REPORTING

II. PHYSICAL DATA

FLAMMABLE: 3 HEALTH: 1 REACTIVITY: 0 SPHAZARD: NONE

BOILING POINT: 200F FREEZING POINT: 32F

SPECIFIC GRAVITY (H2O=1): 0.98

VAPOR PRESSURE AT 20C (mmHg): APPROX. 18

VAPOR DENSITY (AIR=1): 1.0

SOLUBILITY IN WATER (% BY WT. AT 20C): COMPLETE

EVAPORATION RATE (BUTYL ACETATE=1): >1

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: OTHER

PRODUCT NAME: F-Code Waste Water

Skin Contact - Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention for irritation. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Inhalation - Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion - Seek medical attention immediately. Have list of ingredients ready. Induce vomiting if directed by medical personnel. Never give anything by mouth to an unconscious person

V. REACTIVITY DATA

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Not applicable.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong reducing agents, acid chlorides, phosphorus trichloride, phosphorus pentachloride, phosphorus oxychloride.

Conditions to Avoid:

No information found.

VI. SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled

Contact proper authorities. Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak.

WASTE DISPOSAL METHOD: Dispose of in accordance with all federal, state and local hazardous waste regulations.

ENVIRONMENTAL GEO-TECHNOLOGIE 28470 Citrin Dr, Romulus, MI 48174. Telephon	<u>ES, LLC</u> ne 734 946 1000. Fax 734 946 1	1002.	Waste Profile # <u>ゆのある</u>
GENERAT <u>OR INFORMATION</u>		-	
Name:	USEPA	ID#_\	
Facility Address:	SIC/NAI	CS Code:State Cod	le:
City:	State:	Zip Code:	
Contad		S. C. Carlotter	
BILLING INFORMATION	SAME AS ABOVE		, <u>, , , , , , , , , , , , , , , , , , </u>
Company Name:			
Address:			
City:	State	Zip Code:	
Attention	Phon	_ F	
WASTE INFORMATION			
Name of Waste/Common Chemical Name	•		
Aluminum Bromich			. '
Process Generating Waste (Please be specific, inco			13
Washing Moderat to	remove alumina	um bamidu 8	aik
USEPA / STATE WASTE IDENTIFICATION			
	zardous Liquid Industrial Waste	Hazardous Waste	
2. Regulated by TSCA? ☐Yes ☐No (PCBs, e	tc.)	<i>,</i> —•	
3. List ALL Applicable Waste Codes 1002			
PHYSICAL CHARACTERISTICS OF WASTE			
Color: Suspended Solids ☐ White/Clear ☑ 0-1 % ☑ 3-5 ° ☐ Black/Brown ☑ 1-3 % ☑ > 5% ☐ Other		Specific Gravity:	acce of ble 100 01.22.14
oH: □NA	6	10 – 12.5 □ ≥12.5	<u> </u>
Liquid Flash Point: ☐ <73°F ☐ 73 – 100°F ☐ 1	101 – 140°F ☐ 141 – 200°F ☐:	>200°F	d Cup T Open Cup
VOC CONCENTRATION -	PPM (MUST BE COMPLETED)		
TOTAL COMPOSITION OF WASTE - MUST BE EQUA	•	EACH CONSTITUENT >/= 0.1%)
CONSTITUENT	MAX MIN CONSTI		MAX MIN
Aliminum Bromis	0.0		
wetx			

EGT - 28470 Citrin Drive - Romulus - MI - 48174
Waste Profile – Page 2 Metals: Indicate if this waste contains any of the following metals,. If Generator knowledge-provide backup Lab Analysis Generator Knowledge ☐ TCLP ☐ TOTAL
Not Concentration Not Concentration Present Pr
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)? ☑Ýes □No 2. Reportable Quantity (RQ) in pounds
3. DOT Shipping Name
4. Method of Shipment:
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 Geotechnologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization.
Printed Name:Title:
Generator's Signature:
GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart_sample of the waste described in the above referenced GENERATOR'S 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
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.
Date Time Date Time Passes Time T

RECEIVING & APPROVAL FORM

LEGETATION OF WELLOW	al furm
RECEIVATION	
Date	7/21/14
Receiving ID#	ninon bromide
Manifest# Line:	200 200
Land Ban Cert included	Yes No
EGT Approval#	
Generator	the track and the state of the track after an evolution for extension
Client	Section 18 Section Section 2011 Section 2011
Transporter	
Time in	
Time out	
Received by	J.A.
Sampled by	Client

			C Mileston and the control of the co
LABINECEMATION.			
All Wase Stiments		Citield Empes (Chilis)	
Compatible? (RT#)	Yes No	Barium	3.77-3.66
PCBs (ppm)(Oily Waste Only)?	NIA		
	1	Calcium	
TOC (ppm)(CC Waste Only)?	NA	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.8	Sodium Chloride	
Cyanides? (mg/L)	230	Bicarbonate	
Sulfides? (ppm)	< 200b	Carbonate	
Specific Gravity	1.03	TDS	
Physical Description	liavid	Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes (No)	-	
Temperature	7505		
Conductivity	405~5		
% Solids	5.4		
Turbidity	Yes (No)		
Color (visual)	Colorless	·	
TSS (%)	(0)		·····
Radiation Screen (as needed)	Negotives		<u> </u>
	O CO I VEA		
Lab Signature	- // (.	1/ 1/ VI	
-			

RECO/4-01 - Page 1

ENVIRONMENTAL GEO-TECHNOLOGIES. LLC 28470 Citrin Dr., Romulus, MI 48174. Telephone 734 946 1000. Fax	734 946 1002	Generator Waste Profile Profile # 公の写写点
GENERATOR INFORMATION		•
Name:	USEPA ID#	
Facility Address:	SIC/NAICS Code:	State Code:
City	State:	Zip Code:
Contact:	Phone: Phone:	ax: ()
Company Name		
Address		
City:	State:	Zip Code:
Attention:Phone:		Fax
WASTE INFORMATION	ya kwangina ninya kipangina nina na masa sa kibanji mara si ku ma k	
Name of Waste/Common Chemical Name: Acid Rinse Water		
Process Generating Waste (Please be specific, incomplete information may Acid Rinse Water generated from electropolishing of metal parts with st process		·
· · · · · · · · · · · · · · · · · · ·		
USEPA / STATE WASTE IDENTIFICATION		
1. This waste is considered to be: Non Hazardous Liquid industrial	l Waste Hazardou	s Waste X
 Regulated by TSCA?		
	nykayikkaliya mayorikkali sakran nakanikasy mnyajiyyin nyorkasini nakakikkali kalam mayoris	
PHYSICAL CHARACTERISTICS OF WASTE Color: Suspended Solids Layers: White/Clear Slot-1 % 3-5 % Shiple I Black/Brown 1-3 % 55 Single I	ayered	C Gravity: 1.0-1.2 1.3-1.4 er 09.22.14
pH: □NA □X ≤ 2 □ 2-4 □ 4-6 □ 6-8 □	3 − 10□ 10 −	12.5 <u>≥</u> 12.5
Liquid Flash Point:	200°F 🔼 >200°F 🗀	None Closed Cup Open Cup
VOC CONCENTRATION -	OMPLETED)	
TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 10	00% (LIST EACH CONSTI	TUENT >/= 0.1%)
- This phase deco 5-1% BALANCE %		MAX MIN
- %		

<u> EGT - 28470 Citrin Drive - Rom</u>	<u> 48 – Mi – 48 </u>	174	**************************************		Waste P	ofile - Page 2
Metals: Indicate if this waste contain Market Lab Analysis Market General	ins any of the fo erator Knowled	llowing metals,. i ge	f Generator knot		qt.	
Dioxins ppm Po Cyanides Reactive ppm Ro	Pres romatic Amine esticides odenticides ungicides	sent ppm ppm ppm ppm ppm ppm	B C C Le M Si Si	senic (As) D004 arium (Ba) D005 admium (Cd) D006 promium (Cr) D007 ad (Pb) D008 proury (Hg) D009 elenium (Se) D010 liver (Ag) D011	<100 ppn	nppm nppm n ≥5ppm nppm nppm
TOE! Organios bota Dono above te	galetory minte,	riesent [] Not	riesein jeg			
IS WASTE ANY OF THE FOLLOW! Radioactive Water Reactive NIOSH Human-Positive Carcinog	ve 🗌 Oxidize		Shock Sensitiv		ther) DOT I	Explosives Apply
SHIPPING INFORMATION 1. Is this a DOT Hazardous Materia 2. Reportable Quantity (RQ) in pour	I (49CFR 172.10	01 & 173 Subpar	t D)? □XY	e≨∏No		
3. DOT Shipping Name <u>RQ Waste</u> Hazard Class	Corrosive Liquid	d, Acidic, Inorgar	nic, n.o.s. (Sulfu	ric Acid, Phosphoric	Acid)	UN/NA 3264
PG 11 ERG Hazard	ous Constituen	ts for "n.o.s."	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
4. Method of Shipment: 5. Number of Units to Ship Now:	3500 – 4500 gal			Drums ☐ Tote	ume / Units per Y	ear: 🗌
I hereby represent and warrant that I attached documents. Based on my in information, the information contained material fact has been omitted as to in the handling and processing of the Technologies not to correct any incorrect the samplants.	nquiry and perso d herein is true, make this inform waste material isistencies. Any	onal knowledge of accurate, and contains accurate, and contains according described hereing corrections Environs Environ	of those individe emplete to the k i. I understand i. If this box is	uals responsible for lest of my knowledg that others may rely checked lest reque	supplying or obta e and belief. Fur on this represer st Environmental	tining the thermore, no tation and warranty Geo-
Printed Name		Kemonts		Title		and the second second
Generator's Sig					ie: 7-2/-	14
			ICT!			
the waste described in the above rere one obtained using any of the applica provided below. If you have problems representative.	renced GENERA ble sampling me	ethods cited in 4	FILE REPORT US O CFR 261-Apr	ing an appropriate o endix 1. Fill in the s	container. A represampling informa	tion in the spaces
12.			·····	_	······································	
SAMPLING METHOD	COLLECTIO	n point				
3. SAMPLE COLLECTOR'S NAME,	TITLE, EMPLO	YER				
	eservation: Y					
5. CHAIN OF CUSTODY Each pe	son who handle	es the sample m	ust sign below	when the sample pa		another.
Relinquished by: (Signature)	Date	Time		ceived by: ignature)	Date	Time
			·····			

RECEIVING & APPROVAL FORM

RECENTIVE MEDICATION		X869
Date	7/21	1/11
Receiving ID#	Acid	
Manifest# Line:		7,000
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		1
Client		
Transporter	100	
Time in		
Time out		
Received by	J.H.	
Sampled by	Clien	1.

AB INFORMATION All Wase Charses Compatible? (RT#)		1 0 1 1 1 1 1		l	• •
Compatible? (RT#) (Yes) No Barium PCBs (ppm)(Oily Waste Only)?	All Waste Shirtlens			Diffield Stanes Osta	
Only)? TOC (ppm)(CC Waste Only)? Flash Point (°F) PH (S.U.) Cyanides? (mg/L) Sulfides? (ppm) Specific Gravity Physical Description Stream Consistency Oil in Sample Temperature Conductivity % Solids Turbidity Color (visual) Radiation Screen (as needed) Negative Total Iron Total Iron Magnesium Fload Magnesium Carbonate Sodium Chloride Carbonate Scolium Chloride Carbonate Sodium Chloride Carbonate Sodium Chloride Resistronate Solium Chloride Carbonate Solium Chloride Magnesium Fload Negative Solium Chloride Carbonate Solium Chloride Solium Chloride Carbonate Solium Chloride Solium Chloride Resistronate Solium Chloride Carbonate Solium Chloride Solium Chloride Carbonate Solium Chloride Carbonate Solium Chloride Solium Chloride Solium Chloride Solium Chloride Solium Chloride Carbonate Solium Chloride Solium C	Compatible? (RT#)	(Yes)			
Flash Point (°F) PH (S.U.) Cyanides? (mg/L) Sulfides? (ppm) Specific Gravity Physical Description Stream Consistency Oil in Sample Temperature Conductivity % Solids Turbidity Color (visual) TSS (%) Radiation Screen (as needed) No Solidum Chloride Bicarbonate Special Description Bicarbonate Socium Chloride Bicarbonate Resistivity Sulfate Ves No Sulfate No Color (visual) TSS (%) Radiation Screen (as needed)	Only)?	NA		Calcium	
pH (S.U.) Cyanides? (mg/L) Sulfides? (ppm) Specific Gravity Physical Description Stream Consistency Oil in Sample Conductivity Sodium Chloride Bicarbonate Specific Gravity TDS Resistivity Sulfate Oil in Sample Yes No Temperature Conductivity Solids Turbidity Color (visual) TSS (%) Radiation Screen (as needed)				Total Iron	
Cyanides? (mg/L) Sulfides? (ppm) Sulfides? (ppm) Specific Gravity Physical Description Stream Consistency Oil in Sample Temperature Conductivity % Solids Turbidity Color (visual) TSS (%) Radiation Screen (as needed)			40	Magnesium	
Sulfides? (ppm) Specific Gravity Physical Description Stream Consistency Oil in Sample Temperature Conductivity % Solids Turbidity Color (visual) TSS (%) Radiation Screen (as needed) Specific Gravity A 200 Carbonate Resistivity Resistivity Resistivity Sulfate No Sulfate		1.7		,	
Specific Gravity Physical Description Stream Consistency Oil in Sample Temperature Conductivity % Solids Turbidity Turbidity Tolor (visual) TSS (%) Radiation Screen (as needed) TDS Resistivity Resi		< 3	0	Bicarbonate	
Specific Gravity Physical Description Stream Consistency Oil in Sample Temperature Conductivity % Solids Turbidity Color (visual) TSS (%) Resistivity Resistivity Sulfate No		< 2	00	Carbonate	
Stream Consistency Oil in Sample Yes No Temperature Conductivity % Solids Turbidity Color (visual) TSS (%) Radiation Screen (as needed) No Sulfate No Sulfate No Sulfate				TDS	
Stream Consistency Oil in Sample Temperature Conductivity % Solids Turbidity Color (visual) TSS (%) Radiation Screen (as needed) Yes No Sulfate Yes No Sulfate Yes No Sulfate Yes No Sulfate Occupant Sulfate Occupant Occupant No Sulfate Occupant No Sulfate Occupant No Sulfate Occupant Occ		liquid	\	Resistivity	
Temperature 75°F Conductivity 8 Solids Turbidity Yes No Color (visual) TSS (%) Radiation Screen (as needed) Negative	Stream Consistency		No.	· · · · · · · · · · · · · · · · · · ·	
Temperature Conductivity % Solids Turbidity Color (visual) TSS (%) Radiation Screen (as needed) TSG (As needed) Regarding	Oil in Sample	Yes	No.		
W Solids Turbidity Yes No Color (visual) TSS (%) Radiation Screen (as needed) Regarities	Temperature	75°F			
W Solids Turbidity Yes No Color (visual) TSS (%) Radiation Screen (as needed) Regarities	Conductivity	26.50	5	<u> </u>	
Turbidity Color (visual) TSS (%) Radiation Screen (as needed) Negative	% Solids		· · · ·		
Color (visual) TSS (%) Radiation Screen (as needed) Regarities	Turbidity		No)		
Radiation Screen (as needed) Regarities Regarities	Color (visual)				
	TSS (%)	20.1			
	Radiation Screen (as needed)	Negativ	re	Λ	
	Lab Signature	<u> </u>		18 W	

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC 28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

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		A Party.	STEEL .	PRESE.	٢=

GENERATOR INFORMATION	·	•		
Name:		USEPA	D#	
Facility Address:		SIC/NAICS	Code: State C	ode:
City:		State:	Zip Code	
BILLING INFORMATION	itle: Phone: (SAME AS A	ABOVE	Fax: (<u>}</u>
		Chilar	Zin Codo:	
Attention:	Phone: (
Process Generating Waste (Pleas chiller unit USEPA / STATE WASTE IDENTII 1. This waste is considered to be: 2. Regulated by TSCA? Yes	☐ Non Hazardous Liquid Industri	ay <i>delay</i> ihe a	pproval process): X Hazardous Waste	Lithium bromide drained form
PHYSICAL CHARACTERISTICS				NAT
Color: Susp X White/Clear X 0-	ended Solids Layers: 1 %	yered	Specific Gravity:	
pH: □NA □≤2 □ 2	2-4	□ 8 – 10	☐ 10 — 12.5 X <u>></u> 12	
	73 – 100°F)0°F □ None	Nosed Cup 🗌 Open Cup
VOC CONCENTRATION -	•	•		
	E - MUST BE EQUAL TO OR GREATER THAN	•	dhan ann	
Lithium bromide	MAX MIN 5652% _	CONSTIT		%
Potassium hydroxide Water	44 - 46 %			
EGT - 28470 Citrin Drive - Rom Metels: Indicate if this waste conta	ulus – MI – 48174 hins any of the following metals,. If Gener rator Knowledge		Was e-provide backup □TOTAL	5 ppm ppm 00 ppm ppm
Present	Present	Barium	(Ba) D005 🏗 <16	00 ppm ppm

Dioxins ppm Pes Cyanides Reactive ppm Roc	matic Amine distinction in the straight in the	ppm ppm ppm ppm	Cadmium (Cd) Chromium (Cr) Lead (Pb) Mercury (Hg) Selenium (Se) Silver (Ag)	D006	ppm ppm
IS WASTE ANY OF THE FOLLOWIN Radioactive Water Reactive NIOSH Human-Positive Carcinoge	oxidizei	. 🗆		tive (other) ☐ DOT E gical X None A	•
SHIPPING INFORMATION 1. Is this a DOT Hazardous Material 2. Reportable Quantity (RQ) in pound	•		Ď)? XYes □No		
3. DOT Shipping Name_UN1760 Co					\/NA
PGIII ERG 154 Hazardo 4. Method of Shipment: 5. Number of Units to Ship Now:1-6. Special Handling Requirements Inc	☐Bulk Tanker 4x 30 gallon	□Vac truck	□Rail Car XDrums □	Totes	or X One Time
thereby represent and warrant that I is attached documents. Based on my in information, the information contained material fact has been omitted as to in the handling and processing of the Technologies not to correct any income of the sample characterisation and/or Printed Name:	nave personally quiry and perso I herein is true, a nake this inform waste material	nal knowledge of accurate, and co ation misleading described hereir corrections Env	of those individuals responsion omplete to the best of my kr g. I understand that others g g. If this box is checked ∐,	ible for supplying or obta lowledge and belief. Fur may rely on this represer I request Environmental	Ining the thermore, no station and warranty Geo-
Generator's Signature				Date;	
GENERATOR'S Of the waste described in the above reference one obtained using any of the applicate provided below. If you have problems representative.	ole sampling me	thods cited in 40	FILE REPORT using an appro CFR 261-Appendix 1. Fill	in the sampling informat	esentative sample is tion in the spaces
122.					
3. SAMPLE COLLECTOR'S NAME,				•	1
4. Sample No. Pr			unt along halong when the	male passas from an 1-	anothar
5. CHAIN OF CUSTODY Each per Relinquished by: (Signature)	son who handle Date	s the sample m	Received by: (Signature)	Tiple passes from one to Date	Time
facilities and the second seco	·			The second secon	



Lakeland Laboratories, Inc.

8290 Pettysville Road Pinckney, MI 48169 Phone: (734) 878-3400 FAX: (734) 878-3981

Certificate of Analysis

Date: July 17, 2014

Sample ID: 001: Lithium Bromide

Project Name: Project Number:

Submit Date: 7/15/2014 Collection Date: 7/15/2014 Customer

Lab Sample ID:

SW846.7770



Parameters	Result	LRL	Units	Method Reference	Analysis Date	Analyst
рН	14.0	1-14		SW846 9045C	7/15/2014	LLW
Total Metals Analysis		•				
Arsenic	ND	0.5	mg/L	SW846 7060	7/16/2014	LLW
Lead	ND	0.5	mg/L	SW846 7420	7/16/2014	LLW
Potassium	5400	50	mg/L	SW846 7610	7/17/2014	LLW

mg/L

10

Parameter- The analysis performed or name of the chemical analyzed. Result- The reported concentration in the sample at or above reg level

110

LRL- Lower Reporting Level

Sodium

Units- The unit which corresponds to the reported concentration

Method Reference- The method used to provide results.

Analysis Date- Date the analysis was performed

Analyst- Initials of the analyst performing the analysis ND- Parameter not detected above the reported LRL

Reviewed By: Larri White

Date: 7/17/2014

7/17/2014

LLW

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC 28470 Citrin Dr., Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile Profile # 🛇 🖰 🥱

la	and the second s	SEPA ID #NAA C/NAIOS Code State Gr	
acllity Address:	<u></u>		188
illy:	Stat	te: Zip Gode:	
	Title: Phone:	Fax:	<u> </u>
ILLING INFORMATION	SAME AS ABOVE		
onipany Name:			
ddress:		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
ity:	Slat	e:Zlp Code:	· · · · · · · · · · · · · · · · · · ·
Itention:	Phorie:-()	Fax: ()	
/ASTEINFORMATION ame of Waste/Common Chemic	al Namer	•	
			•
HYDROCHLORIC ACIT	secific, incomplete information may dela		
Regulated by TSCA? ☐Yes ☐No	☐ Non Hazardous Liquid Industrial Was (PCBs, etc.)	•	
This waste is considered to be: Regulated by TSCA? Yes No	☐ Non Hazardous Liquid Industrial Was		
This waste is considered to be: Regulated by TSCA? Yes No	Non Hazardous Liquid industrial Was (PCBs, etc.)		
This waste is considered to be: Regulated by TSCA? Yes No List ALL Applicable Waste Codes;] Non Hazardous Liquid Industrial Was (PCBs, etc.) 162. D000 D007 D008 STE	Specific Gravity: sd	accyphile 07,23,14
This waste is considered to be: Regulated by TSCA? Yes No List ALL Applicable Waste Codes; YSICAL CHARACTERISTICS OF WA Color: Suspended White/Clear 0-1 % Black/Browa 1-3 % If Other GREEN If WA \(\sum \leq 2 \sum 2 - 4 \)	Non Hazardous Liquid Industrial Was (PCBs, etc.) 92. D006 D007 D008 STE Solids Layers: 3-5 % Multi-Layers Bi-Layered Single Phas	Specific Gravity: Specific Gravity: <0.8	07,29,14
This waste is considered to be: Regulated by TSCA?	Non Hazardous Liquid industrial Was (PCBs, etc.) (P2. D006 D007 D008	Specific Gravity: Specific Gravity:	07,29,14
This waste is considered to be: Regulated by TSCA?	Non Hazardous Liquid Industrial Was (PCBs, etc.) 62. D006 D007 D008 STE Solids Layers: □ 3-5 % □ Multi-Layers □ 51-Layered □ Single Phas □ 4-6 □ 6-8 □ 8 00°F □ 101-140°F □ 141-200°F	Specific Gravity: Specific Gravity:	
This waste is considered to be: Regulated by TSCA? Yes No List ALL Applicable Waste Codes; NSIGAL CHARACTERISTICS OF WA Cotor: White/Clear 0-1% Black/Browa 1-3% Other GREEN IN Other GREEN CONCENTRATION-	Non Hazardous Liquid industrial Was (PCBs, etc.) (P2. D006 D007 D008	Specific Gravity: Specific Gravity:	
This waste is considered to be: Regulated by TSCA?	Non Hazardous Liquid Industrial Was (PCBs, etc.) 92. D006 D007 D008 STE Solids Layers:	Specific Gravity: Specific Gravity:	©7,29,19 ned Cup □ Open Cup

EGT - 28470 Citrio Drive Romul	us - MI - 4817	4		Waste Profile - Page 2				
Metals: Indicate if this waste contain Lab Analysis Gena	ns any of the foll rator Knowledg	owing metals,. I je	f Generator knowledg ☐ TCLP	e-provide backı ∐TOTAL	ар			
Cyanides Reactive 💹ppin Ro	Not Prese prestic Amine S silicides S denticides Su rigicides Su	ppm ppm	Arsenic Barlum Cadmiu Chronit Lead (P Mercury Selenium Silver (A	(Ba) D005 m (Cd) D006 im (Cr) D007 b) D008 (Hg) D009 n (Se) D010	✓ <100 ppn	754 ppm 146/1 754 ppm 146/1 754 ppm 146/1 754 ppm 146/1 754 ppm 146/1		
TGLP Organics D012 - D043 above res	julatory fimilis:	Present 🗌 Not	Present 🗹					
IS WASTE ANY OF THE FOLLOWIN ☐ Radioactive ☐ Water Reactive ☐ NIOSH Human-Positive CareIngge	e 🔲 Oxidize	r 🗆		☐ Reactive (of ☐ Biological	her) □DOT ☑None	Explosives Apply		
SHIPPING INFORMATION 1. Is this a DOT Hazardous Material	(49CFR 172.10	1 & 173 Subpart	D)? ØÝes □N	io				
2. Reportable Quantily (RQ) in pound	is_ <u>iO</u>	•				الاس العالم المنظمة. الاس العالم المنظمة ا		
3. DOT Shipping Name WASTE C	oprosive i	10010 ACIE	oic, indreganic	Hazai	rd Class 8	UN/NA 1789		
PG 11 ERG 153 Hazardo	ous Constituents	s for "h.o.s." [YDEPCHLORIC	- AUD,	·			
4. Method of Shipment:	MBulk Tanker	☐Vac truck	☐Rafi Car ☐Drun	ns 🔲 Totes	_	. ′		
Number of Units to Ship Now. Special Handling Requirements in					500/GAL	, or □ One Time		
			terita de la composición del composición de la c					
CERTIFICATION STATEME I hereby represent and warrant that I I attached documents. Based on my in information, the information contained material fact has been omitted as to r in the handling and processing of the Technologies not to correct any income of the sample characterization and/or	nave personally quiry and perso I herein is true, nake this inferm waste material sistencies. Any	nal knowledge of accurate, and ex aften misleading described herein corrections Env	of those individuals re complete to the best of in I understand that of in If this box is check	esponsible for a f my knowledg others may rely red [], I reque	supplying or obto se and belief. Fu yon this represe st Environments	aining the irthermore, no intation and warranty ii) Geo-		
Printed Name:			· .	Title	:/	7		
Generator's Signature:				Dat	e: 04/01/1	4-		
GENERATOR'S CHAIN OF the waste described in the above refer one obtained using any of the applicate provided below. If you have problems representative.	enced GENERAT	ors Waste Pro	FILE REPORT using ar) CFR 261-Appendix	n appropriate o	ontainer. A repr sampling informa	resentative sample is		
12.								
SAMPLING METHOD	COLLECTION	POINT						
3. SAMPLE COLLECTOR'S NAME,	IITLE, EMPLO	YER		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
4. Sample No Pr			· <u> </u>					
	son who handle	s the sample m	ust sign below when			o enother.		
Relinquished by; (Signature)	Date	Time	Receive (Signal		Date	Time		
					<u> </u>			