



June 30, 2017

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 forty-third 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.

EGT hereby timely submits its twenty-fourth Injection Fluid Analyses (for May, 2017) identified on both Pages A-3 of 3 also in conformance with EGT's two EPA UIC permits with the attached "Data Summary Sheet" from a contract laboratory, Ann Arbor Technical Services, Inc., and, those results demonstrate compliance with all of the limits for each of the chemical entities ("Names) identified on Page A-3 of 3 for F039 waste which EGT accepted.

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 interim report satisfactory, however, if you have any questions or comments, please feel free to contact us.

Sincerely,

Richard J. Powals, P.E.
Vice-President

cc: J. Frost (EGT), T. Athans (EGT), P. Sullivan (EGT)

att.

rjp063017/EGTEPAMonthlyReport-May, 2017



290 South Wagner Road
 Ann Arbor, Michigan 48103
 Tel. 734/995-0995 Fax. 734/995-3731
 Michigan Laboratory ID: 9604
 Wisconsin Laboratory ID: 596321720

Semivolatile Organic Compounds Data Summary Sheet

For: Mr. Richard Powals
 Environmental Geo-Technologies, Inc.
 28470 Citrin Drive
 Romulus, MI 48174

ATS Project: Environmental Geo-Technologies, Inc. #E008-000
 Report Date: 6/30/17
 ATS SRF: 0614171

Sample Identification: May Composite 2017

Sample Date:	6/14/17	QC Batch Number:	QCORG0616171-E
Laboratory Receipt Date:	6/14/17		B7F0096
Preparation Date:	6/16/17, 6/22/17	Sample Matrix:	Wastewater
Analysis Date:	6/23/17, 6/23/17	Dilution Factor:	500

<u>Parameter (CAS)</u>	<u>Method</u>	<u>Units</u>	<u>Result</u>	<u>Reporting Limit</u>
Aldrin (309-00-2)	EPA 8270 Mod	mg/mL	<0.00001	0.00001
Benzidine (92-87-5)	EPA 8270 Mod	mg/mL	<0.00075	0.00075
N-Nitrosodimethylamine (62-75-9)	EPA 8270 Mod	mg/mL	<0.0001	0.0001
Tetraethyl Lead (78-00-2)	EPA 8270 Mod	mg/mL	<0.00005	0.00005
Hexachlorodibenzo-p-dioxins	EPA 1613B	mg/mL	<0.00000000005	0.00000000005
Octachlorodibenzofuran (39001-02-0)	EPA 1613B	mg/mL	<0.00000000005	0.00000000005
Octachlorodibenzo-p-dioxin (3268-87-9)	EPA 1613B	mg/mL	<0.00000000005	0.00000000005
Tetrachlorodibenzo-p-dioxins	EPA 1613B	mg/mL	<0.00000000004	0.00000000004

<u>Surrogates / Labeled Standards:</u>	<u>Method</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
2-Fluorobiphenyl	EPA 8270 Mod	78.8	(50 - 150)
Nitrobenzene-d5	EPA 8270 Mod	72.6	(50 - 150)
p-Terphenyl-d14	EPA 8270 Mod	82.6	(50 - 150)
Tetrachloro-m-xylene (TCMX)	EPA 8270 Mod	92.2	(50 - 150)
13C-1,2,3,4,7,8-HxCDD	EPA 1613B	68.8	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	EPA 1613B	65.1	(28 - 130)
13C-1,2,3,7,8,9-HxCDD	EPA 1613B	62.9	(32 - 141)
13C-OCDF	EPA 1613B	31.2	(17 - 157)
13C-OCDD	EPA 1613B	30.9	(17 - 157)
13C-2,3,7,8-TCDD	EPA 1613B	71.9	(25 - 164)

Comments:

USEPA Analysis 1613B performed by Vista Analytical.

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2017

CURRENT REPORTING MONTH MAY

Date (month, year) of the first injection into either well at the Citrin Road Facility

Nov 2013

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
MI-163-1W-C010, Well #1-12			
Current Month	590,104	0	590,104
Since facility first injected			10,223,889
MI-163-1W-C011, Well #2-12			
Current Month	185,842	0	185,842
Since facility first injected			4,620,905
		Lifetime Combined	14,844,794

Conversion factors

365.25 days per year ÷ 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 42

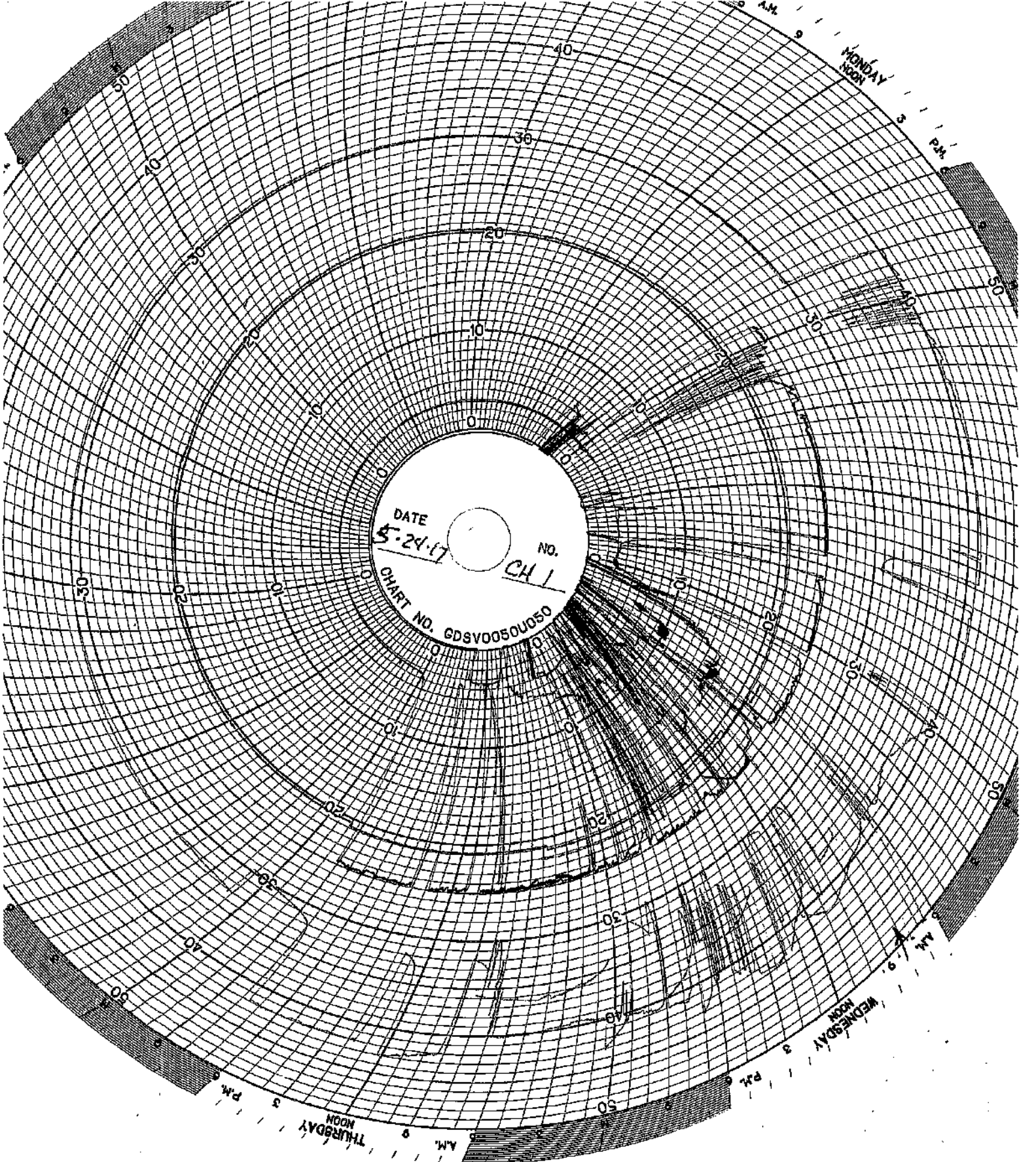
$$\begin{aligned} & \underline{42} \text{ lifetime number of months of injection} \times 43,830 \text{ minutes/month} \\ & = \underline{1,840,860} \text{ minutes of injection} \end{aligned}$$

$$\begin{aligned} \text{Lifetime combined injected volume } & \underline{14,844,794} \div \underline{1,840,860} \text{ minutes of injection} \\ & = \underline{8.1} \text{ gpm average injection rate} \end{aligned}$$

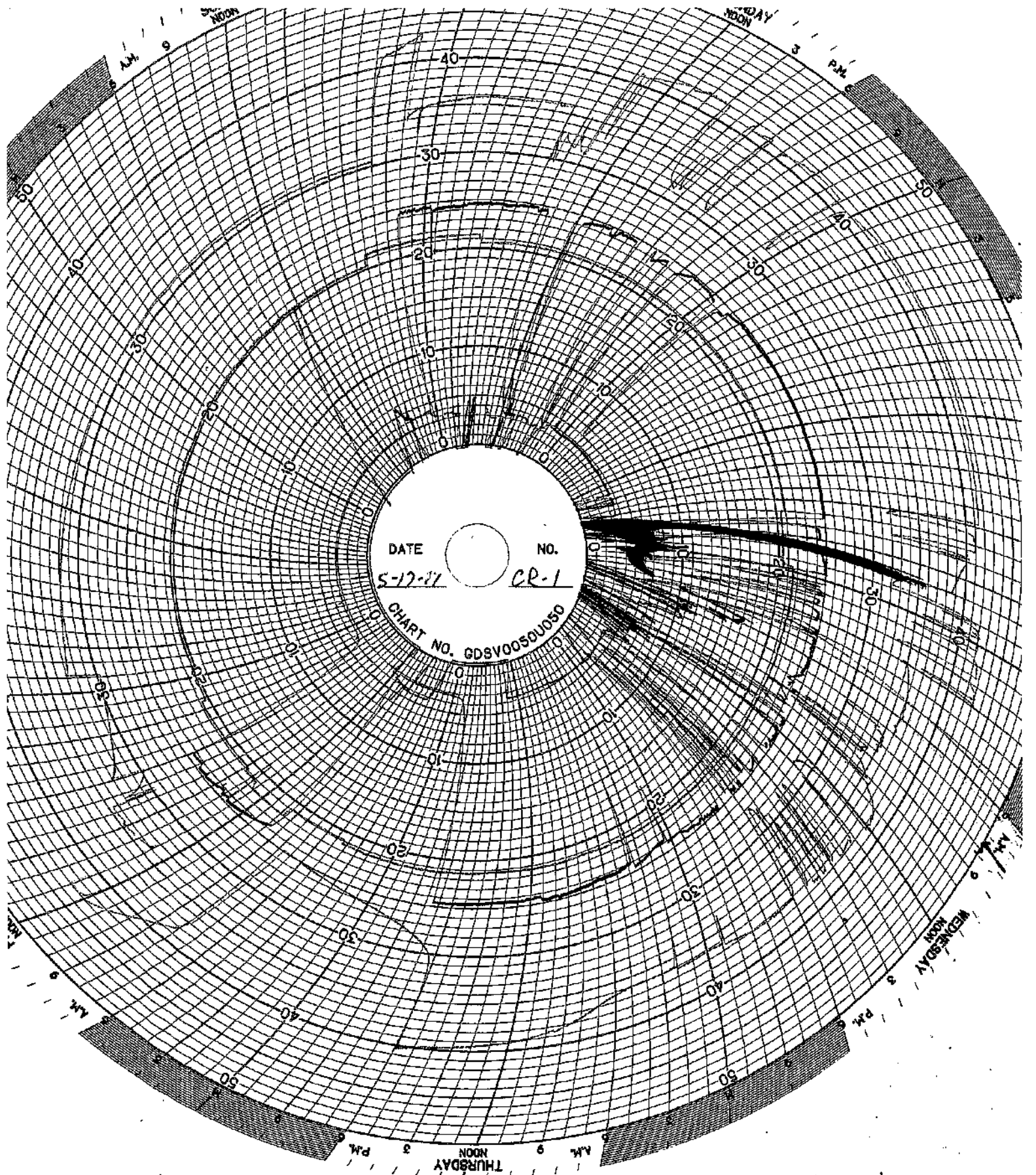
WELL 1 DATA

WELL 01 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
5/1/2017	95.5	750.5	21.3	23.2	899.6	1200.3	7.9	7.9	20.5	39.9	245.5	869.0
5/2/2017	512.3	750.3	22.5	22.7	1030.9	1156.2	7.9	7.9	20.0	22.3	387.6	529.7
5/3/2017	229.2	750.8	22.0	23.1	898.9	1200.1	7.9	7.9	18.6	75.0	193.5	758.1
5/4/2017	-9.9	752.0	20.9	23.2	898.1	1203.2	7.9	7.9	29.8	114.9	244.8	1163.6
5/5/2017	81.4	750.9	22.0	23.4	899.4	1200.0	7.9	7.9	20.1	39.9	247.2	871.5
5/6/2017	70.3	81.7	21.5	22.1	900.0	1004.6	7.9	7.9	0.0	0.0	824.5	931.0
5/7/2017	66.3	99.2	21.5	21.8	922.9	941.2	7.9	7.9	0.0	0.0	823.7	868.0
5/8/2017	57.5	750.8	21.2	27.6	2.5	1220.6	7.9	7.9	22.1	35.6	-511.6	912.3
5/9/2017	51.1	750.4	22.1	22.4	802.4	1202.2	7.9	7.9	21.6	62.4	323.6	751.2
5/10/2017	27.1	751.2	22.1	23.1	776.0	1300.0	7.9	7.9	36.3	60.0	297.1	795.3
5/11/2017	116.2	750.4	22.9	23.2	831.9	1203.9	7.9	7.9	20.4	24.5	405.5	746.1
5/12/2017	100.7	751.5	22.8	23.2	689.3	1141.4	7.9	7.9	6.0	23.3	270.9	715.6
5/13/2017	96.6	101.0	22.8	23.2	632.7	689.3	7.9	7.9	0.0	0.0	535.4	588.7
5/14/2017	94.9	724.8	22.9	23.2	619.7	954.9	7.9	7.9	2.5	22.7	200.5	536.1
5/15/2017	449.1	752.8	22.9	23.2	825.6	1071.6	7.9	7.9	20.4	23.1	235.5	399.7
5/16/2017	157.3	750.5	22.9	23.2	670.3	1068.4	7.9	7.9	14.4	19.1	202.9	513.1
5/17/2017	100.5	758.7	22.5	23.1	693.9	1160.4	1.3	8.2	26.4	75.9	173.4	735.1
5/18/2017	101.7	750.7	22.5	22.8	813.9	1222.6	7.9	7.9	13.1	18.3	352.1	784.2
5/19/2017	98.8	747.8	22.1	23.4	758.6	1301.0	7.9	7.9	6.2	26.1	287.1	888.7
5/20/2017	96.6	113.8	21.5	22.3	900.0	1006.1	7.9	7.9	0.0	0.0	800.4	894.6
5/21/2017	95.1	750.3	21.6	23.0	928.4	1300.0	7.9	10.6	2.5	27.1	278.1	845.3
5/22/2017	99.5	755.0	21.9	23.0	899.8	1276.7	7.9	7.9	12.7	21.9	128.1	863.7
5/23/2017	136.0	752.6	21.6	22.2	900.0	1260.2	7.9	7.9	14.3	16.8	342.1	824.1
5/24/2017	72.2	754.6	21.6	23.4	899.6	1300.1	4.9	11.6	22.1	204.8	165.7	862.0
5/25/2017	97.4	754.8	22.0	22.6	900.0	1296.9	7.9	8.2	11.2	23.2	454.7	876.3
5/26/2017	93.3	111.6	21.6	22.2	900.0	1006.0	8.1	11.2	0.0	0.0	802.3	897.6
5/27/2017	91.8	94.0	21.6	21.9	926.5	944.1	8.7	8.8	0.0	0.0	834.1	850.8
5/28/2017	90.9	92.5	21.7	21.9	916.3	926.5	7.9	8.4	0.0	0.0	824.9	834.7
5/29/2017	90.1	748.1	21.7	21.9	907.5	1223.5	7.9	7.9	2.2	25.3	471.7	825.3
5/30/2017	97.0	753.4	21.8	22.1	930.5	1251.5	7.9	7.9	12.3	31.2	477.7	834.5
5/31/2017	9.6	749.6	21.8	22.9	899.9	1300.1	7.9	7.9	33.7	81.0	349.4	969.5



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CHART NO. GDSV0050U050

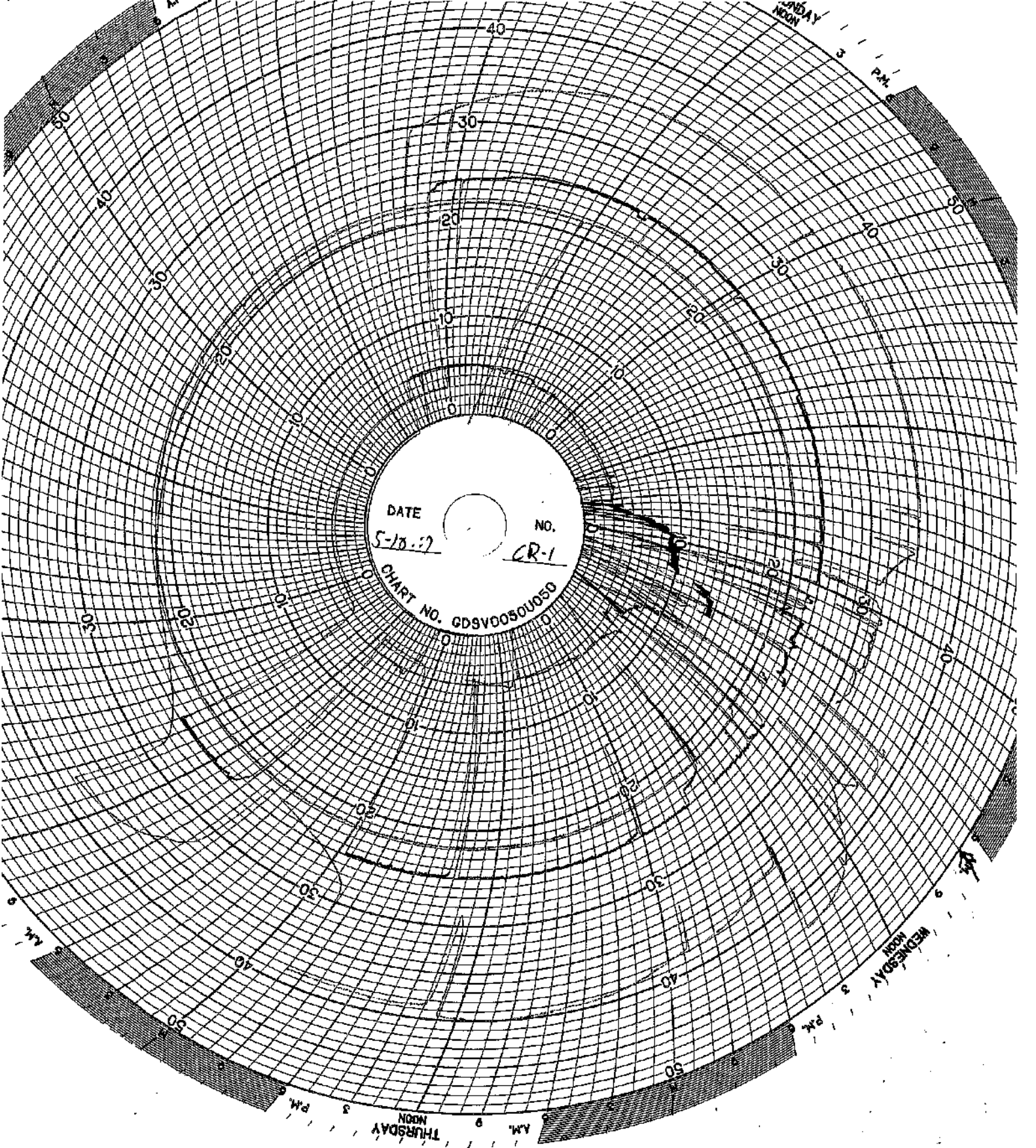


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CHART NO. GDSV0050U050

THURSDAY
NOON 9 A.M. 3 P.M.

FRIDAY
NOON 9 A.M. 3 P.M.

WEDNESDAY
NOON 9 A.M. 3 P.M.



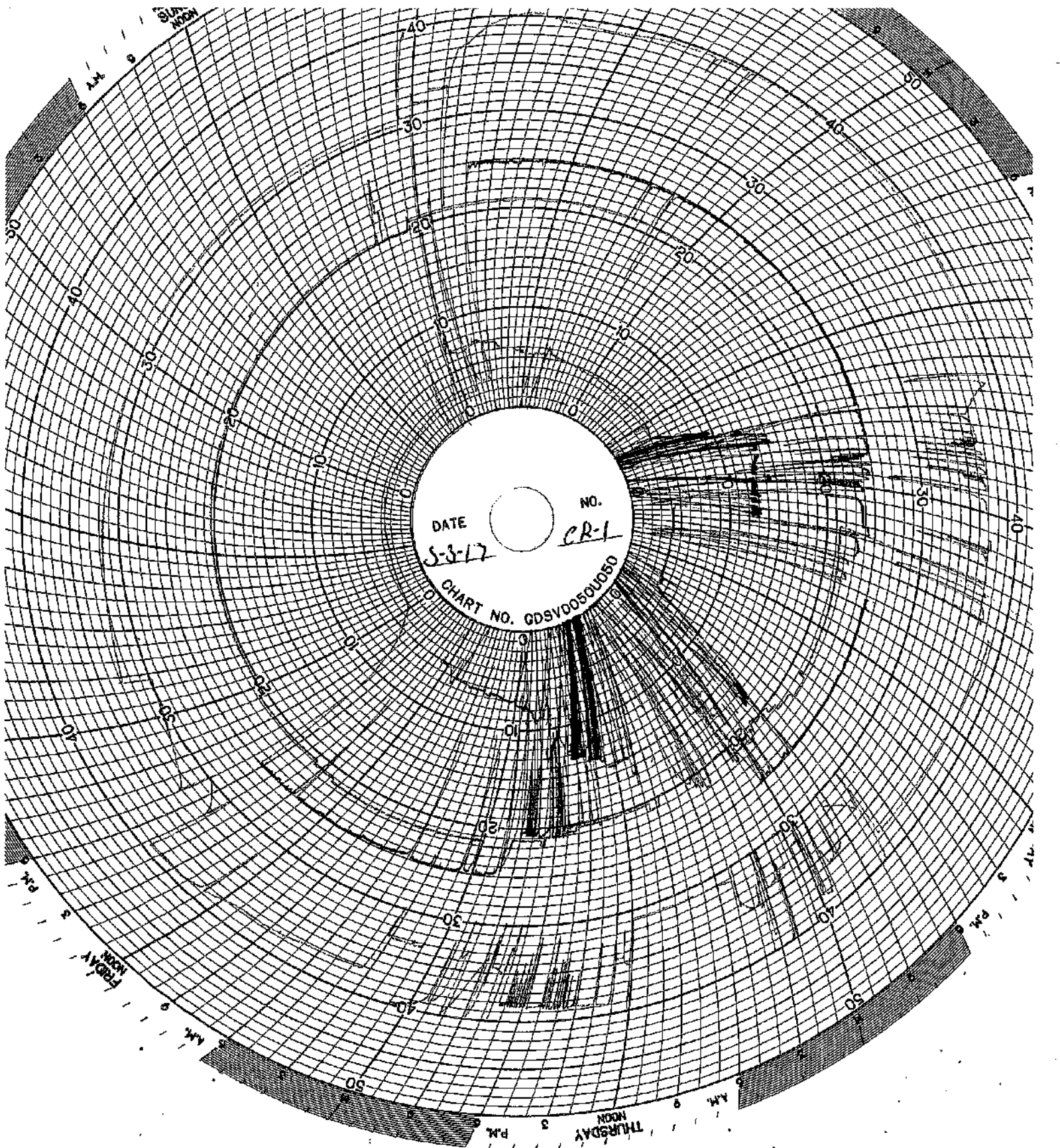
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3 PM

THURSDAY NOON
3 PM

TUESDAY NOON
3 PM



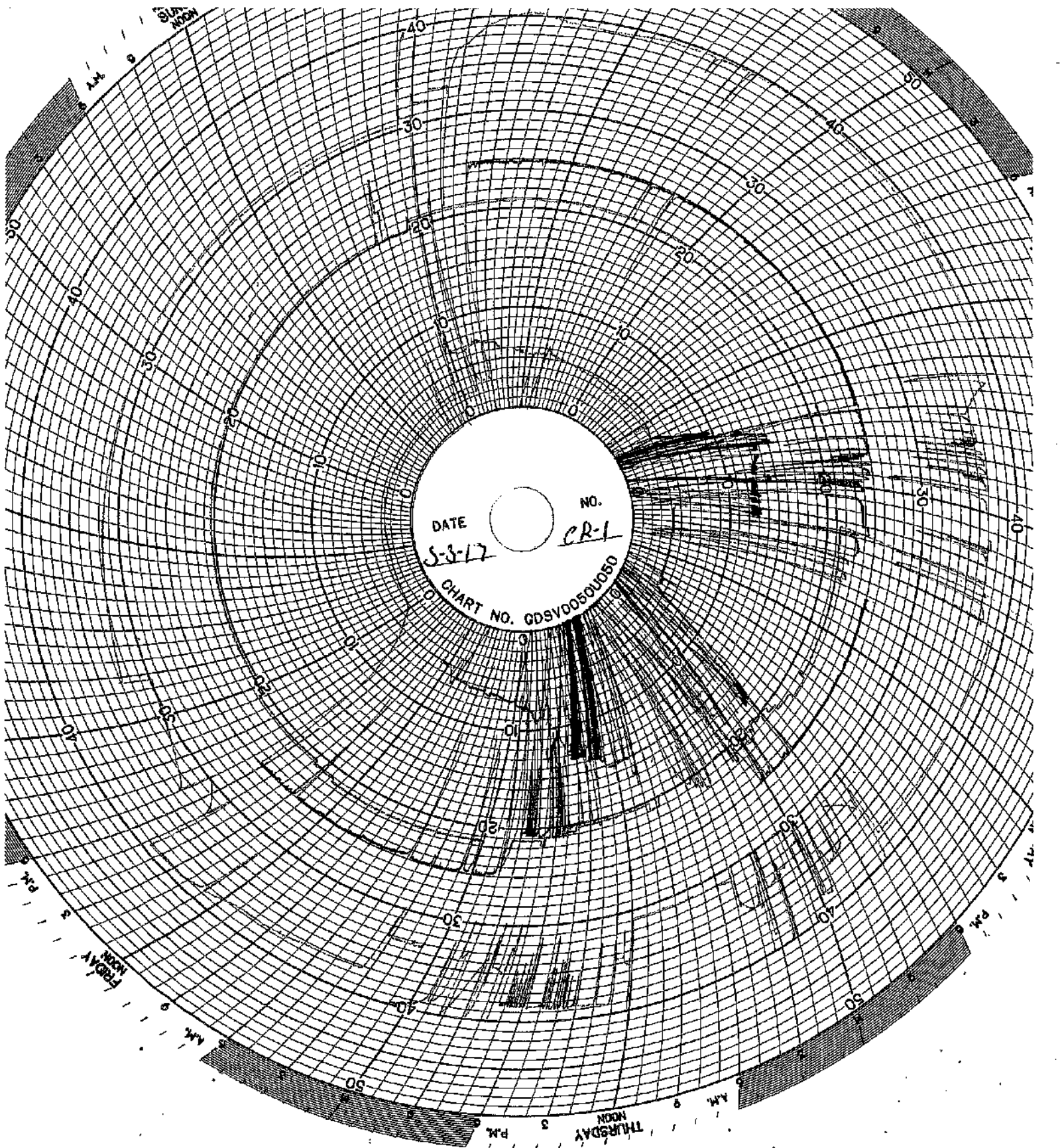
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5-3-17

NO.

CR-1

CHART NO. GDSV0050U050



WELL 2 DATA

Well 02 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
5/1/2017	95.6	748.9	21.8	22.6	661.9	1197.8	7.9	7.9	8.7	31.7	216.2	763.9
5/2/2017	513.0	748.9	22.1	22.2	1097.0	1207.3	7.9	7.9	9.2	12.7	444.1	585.2
5/3/2017	229.3	748.7	21.9	22.6	892.4	1213.8	7.9	7.9	8.4	30.6	326.5	731.1
5/4/2017	-10.0	751.1	22.1	22.2	731.6	1163.7	7.9	7.9	6.0	38.2	243.7	774.3
5/5/2017	103.8	750.0	22.0	22.3	800.7	1221.4	7.9	7.9	7.1	15.6	420.4	808.4
5/6/2017	96.6	103.8	22.2	22.3	698.4	801.0	7.9	7.9	0.0	9.2	601.7	697.2
5/7/2017	93.0	96.7	21.9	22.6	674.4	698.7	7.9	7.9	0.0	7.2	580.9	602.1
5/8/2017	57.1	749.6	21.3	22.3	674.6	1230.3	7.9	7.9	8.7	13.9	248.1	730.3
5/9/2017	50.8	748.6	21.3	22.0	843.3	1228.5	7.9	7.9	8.0	19.1	351.3	792.8
5/10/2017	26.9	749.9	21.5	22.3	839.5	1279.0	7.9	7.9	10.5	25.2	340.7	832.1
5/11/2017	116.3	748.5	21.8	22.4	954.5	1274.5	7.9	7.9	7.5	9.7	487.9	858.8
5/12/2017	100.7	749.3	21.7	22.4	784.6	1210.0	7.9	7.9	2.4	11.4	344.6	838.6
5/13/2017	96.8	100.8	21.7	22.4	704.4	784.9	7.9	7.9	0.0	0.0	607.4	684.2
5/14/2017	95.2	723.6	21.8	22.4	682.2	1014.9	7.9	7.9	0.9	10.3	243.4	608.1
5/15/2017	449.8	748.9	22.0	22.5	896.8	1125.6	7.9	7.9	8.5	9.7	292.9	463.2
5/16/2017	157.3	749.5	22.1	22.2	752.6	1127.0	7.9	7.9	6.2	17.7	262.1	595.2
5/17/2017	100.3	755.0	21.9	22.6	725.4	1079.4	1.3	8.2	9.1	82.9	226.0	684.3
5/18/2017	101.7	749.9	22.0	22.6	733.4	1087.0	7.9	7.9	0.7	24.5	273.3	687.6
5/19/2017	98.8	746.9	21.0	22.6	677.7	1251.3	7.9	7.9	1.9	8.5	389.5	852.9
5/20/2017	96.4	113.5	21.0	21.7	772.9	863.5	7.9	7.9	0.1	26.1	676.4	763.8
5/21/2017	95.1	750.0	21.3	21.7	749.9	1121.2	7.9	10.6	1.5	158.3	284.8	676.8
5/22/2017	99.1	755.0	21.1	21.8	844.7	1152.4	7.9	7.9	4.5	11.6	374.5	760.7
5/23/2017	135.6	755.0	21.3	21.5	788.4	1122.6	7.9	7.9	0.7	11.6	295.3	723.9
5/24/2017	71.5	754.9	21.3	21.5	814.2	1187.0	4.9	11.6	4.7	20.0	295.4	774.4
5/25/2017	97.3	755.0	21.3	21.5	792.0	1141.0	7.9	8.2	0.0	89.3	353.9	735.4
5/26/2017	93.1	111.2	21.2	21.8	709.6	792.3	8.1	11.2	0.0	12.3	616.4	694.1
5/27/2017	91.5	93.2	21.1	21.8	689.8	710.2	8.7	8.8	0.0	16.0	598.2	617.1
5/28/2017	90.6	91.6	21.2	21.8	677.6	690.1	7.9	8.4	0.2	57.5	586.9	598.6
5/29/2017	89.4	750.0	21.1	21.8	669.0	988.0	7.9	7.9	0.9	98.6	205.4	587.3
5/30/2017	96.6	752.2	21.4	21.6	746.8	1038.4	7.9	7.9	4.2	117.4	240.6	652.0
5/31/2017	9.0	750.6	21.4	21.6	718.0	1141.3	7.9	7.9	5.5	39.0	185.6	741.2

Circle Chart Index

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

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure (chart value x 30)

Channel #2

Red Pen - Well 1 Annulus Pressure (chart value x 30)

Channel #3

Green Pen - Well 1 Flow Rate (chart value x 4)

Channel #4

Black Pen - Well 1 Annulus Tank Level (chart value x 0)

Chart Recorder #2

Channel #1

Blue Pen - Well 2 Injection Pressure (chart value x 30)

Channel #2

Red Pen - Well 2 Annulus Pressure (chart value x 30)

Channel #3

Green Pen - Well 2 Flow Rate (chart value x 4)

Channel #4

Black Pen - Well 2 Annulus Tank Level (chart value x 0)

Chart Recorder #3

Channel #1

Blue Pen - Injection pH Well 1 & 2 (chart value + 3.3)

Channel #2

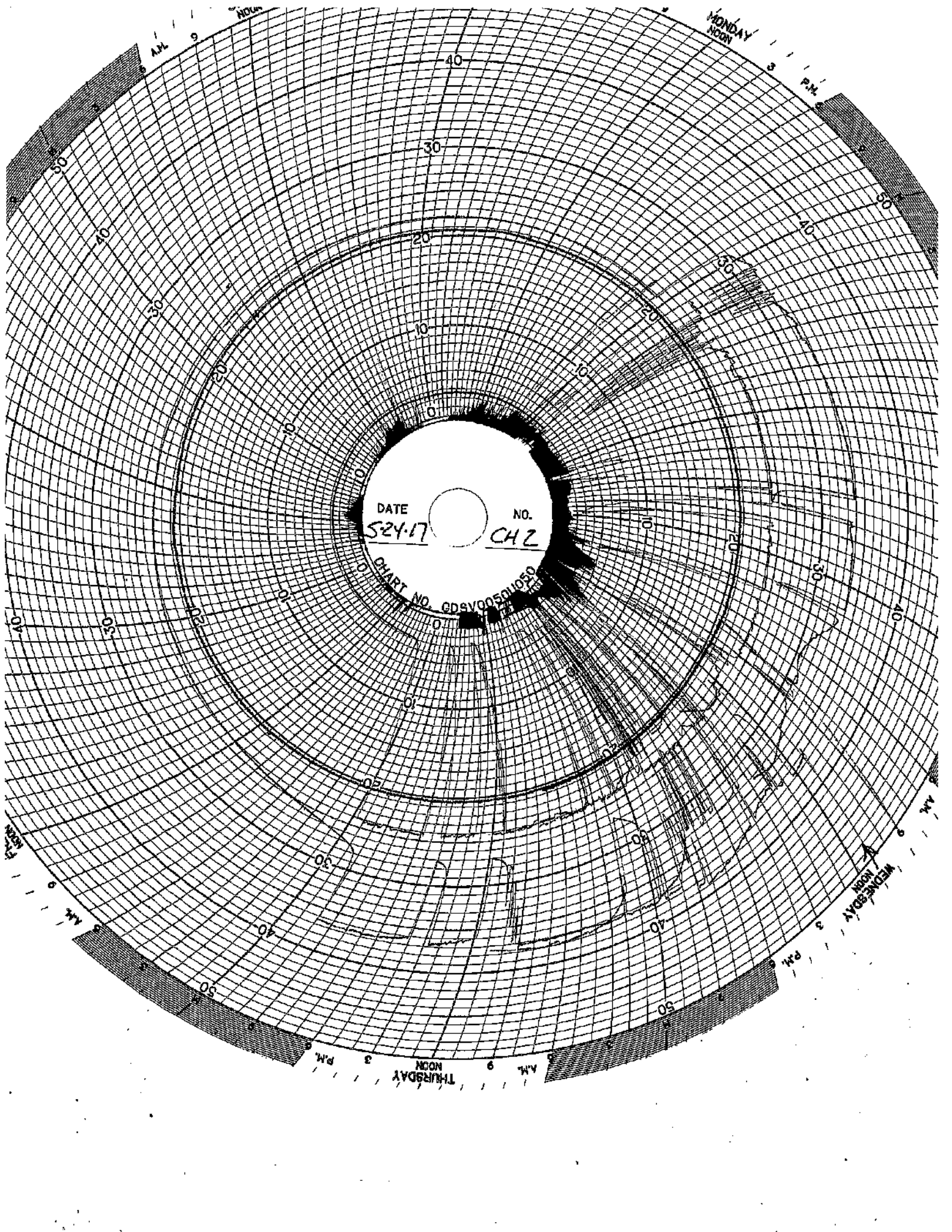
Red Pen - Well 1 Monthly Volume (chart value x 100,000)

Channel #3

Green Pen - Well 2 Monthly Volume (chart value x 100,000)

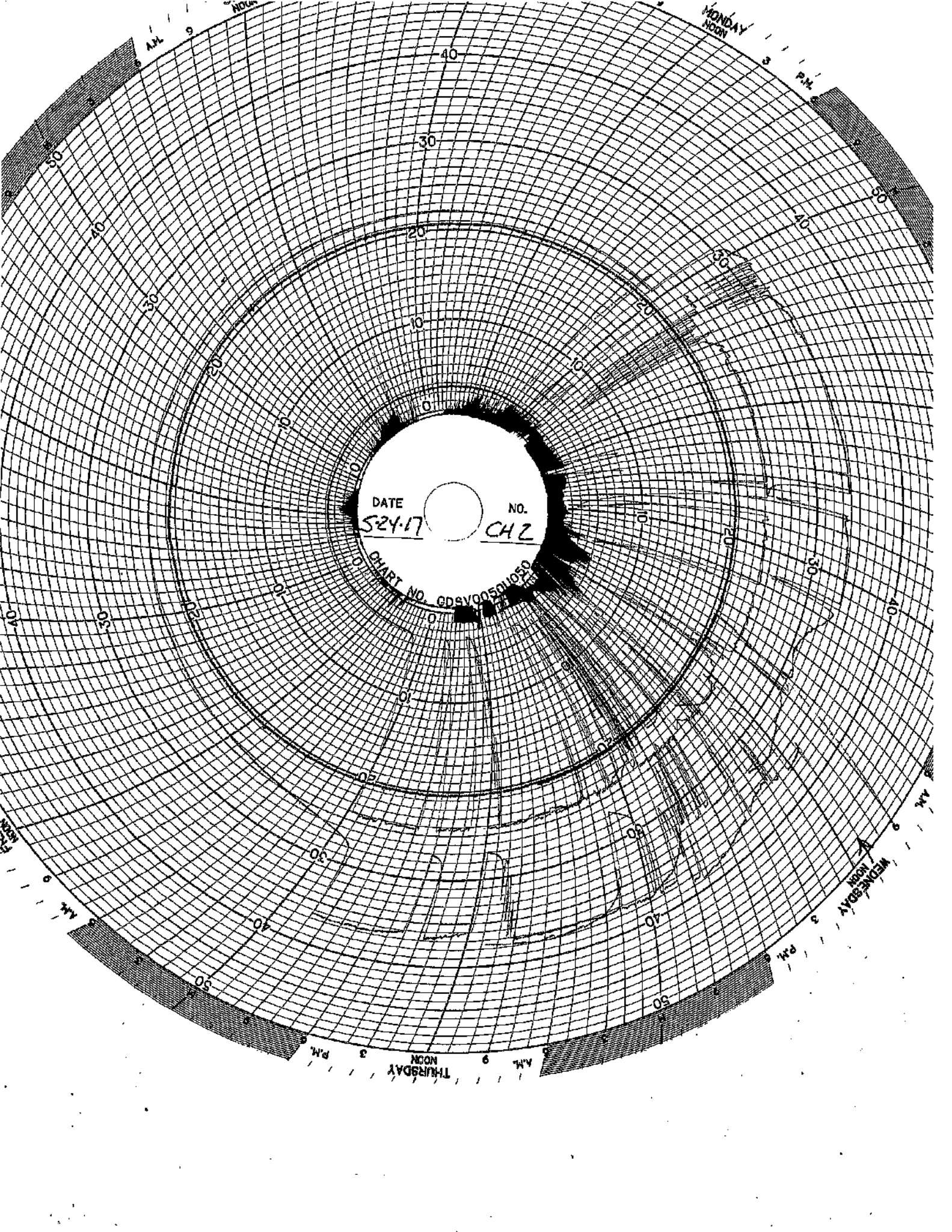
Channel #4

Black Pen - Temperature (chart value x 0)



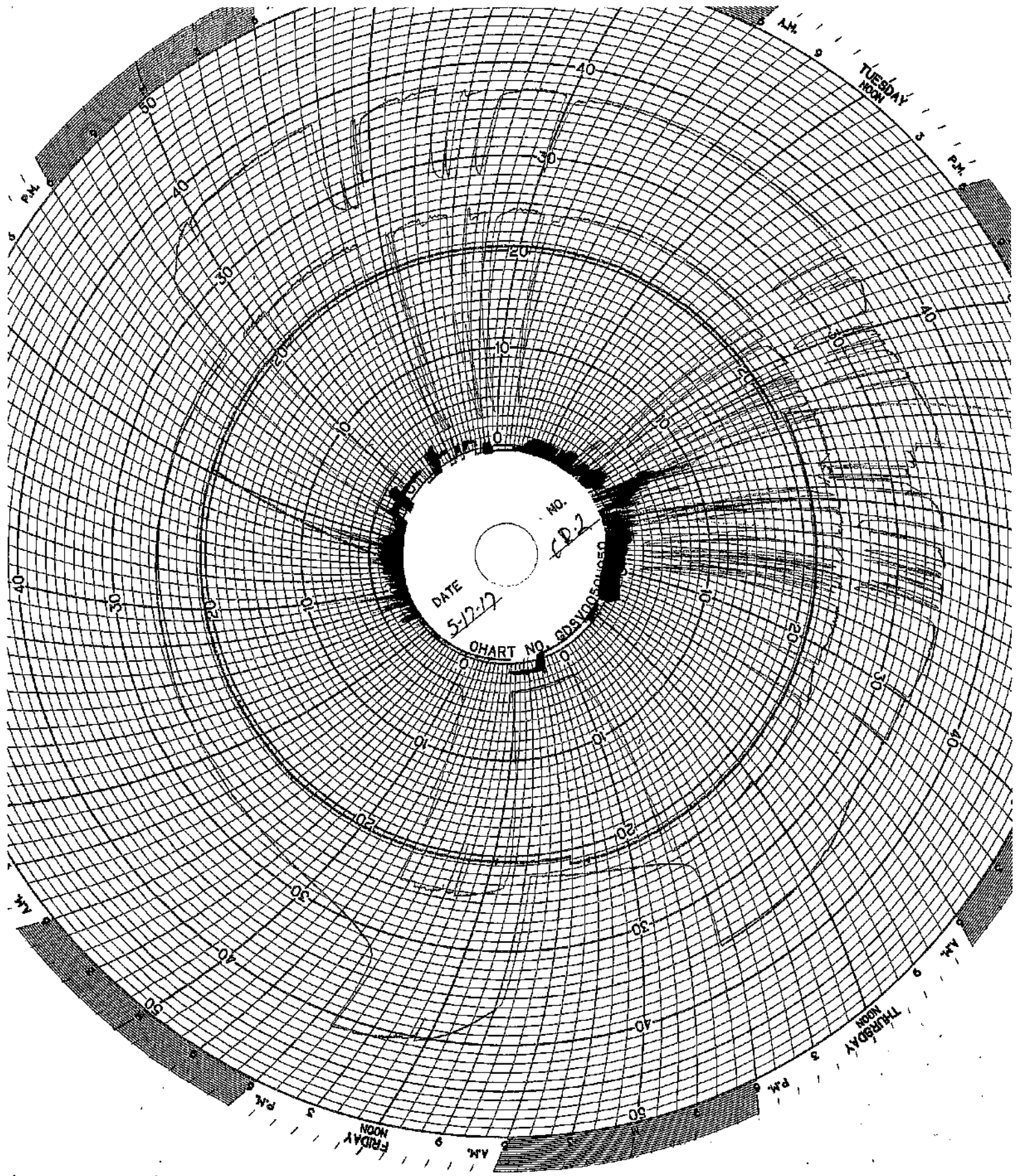
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CHART NO. GDSV00501050



DATE 5-24-17 NO. CHZ

CHART NO. GDSV00501050



DATE 5-12-17
CHART NO. 825110501620
NO. 102

TUESDAY
NOON

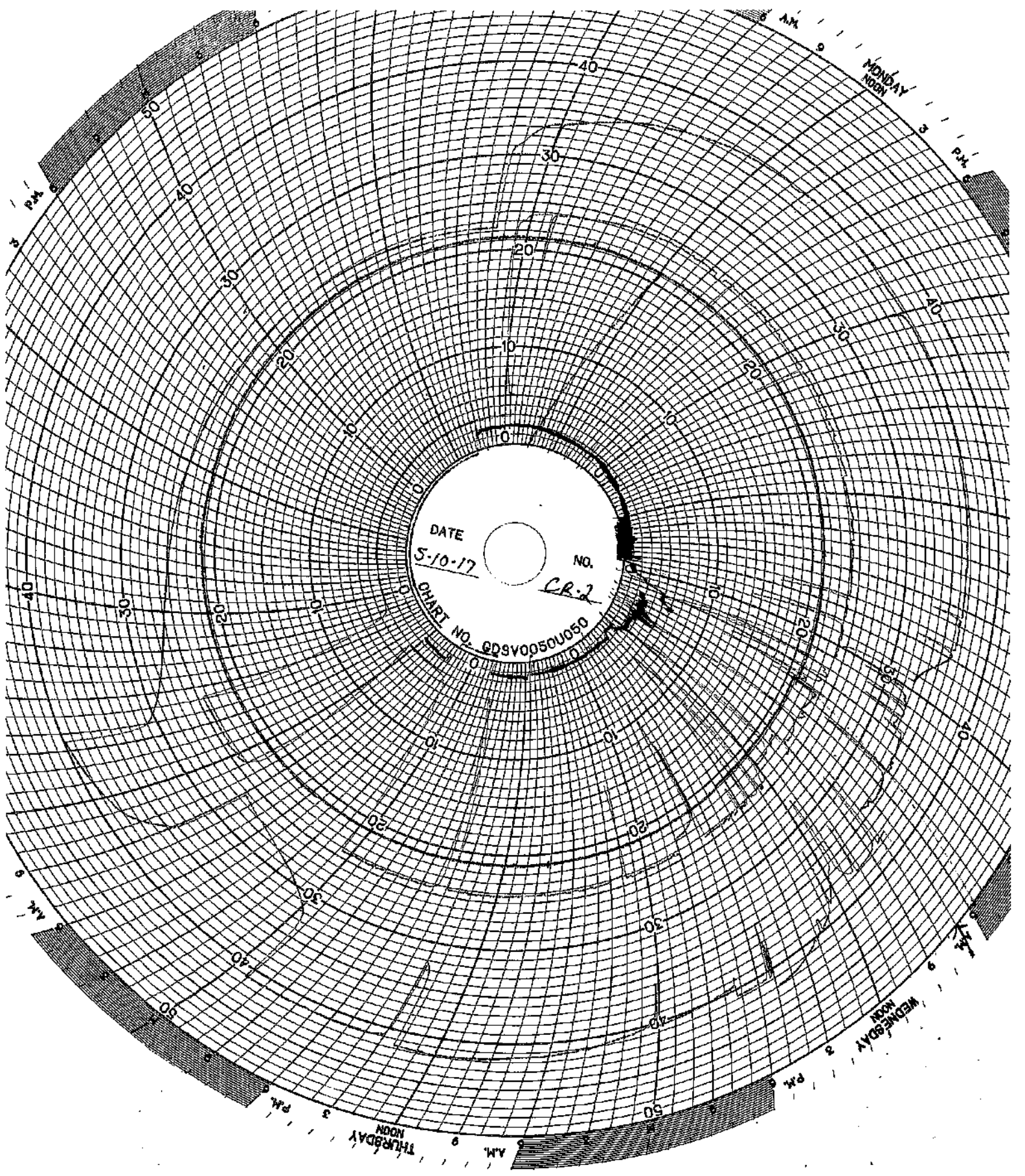
3 PM

THURSDAY
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FRIDAY
NOON

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DATE
5-10-17

NO.
CR-2

CHART NO. 609V0050U050

MONDAY
NOON

WEDNESDAY
NOON

THURSDAY
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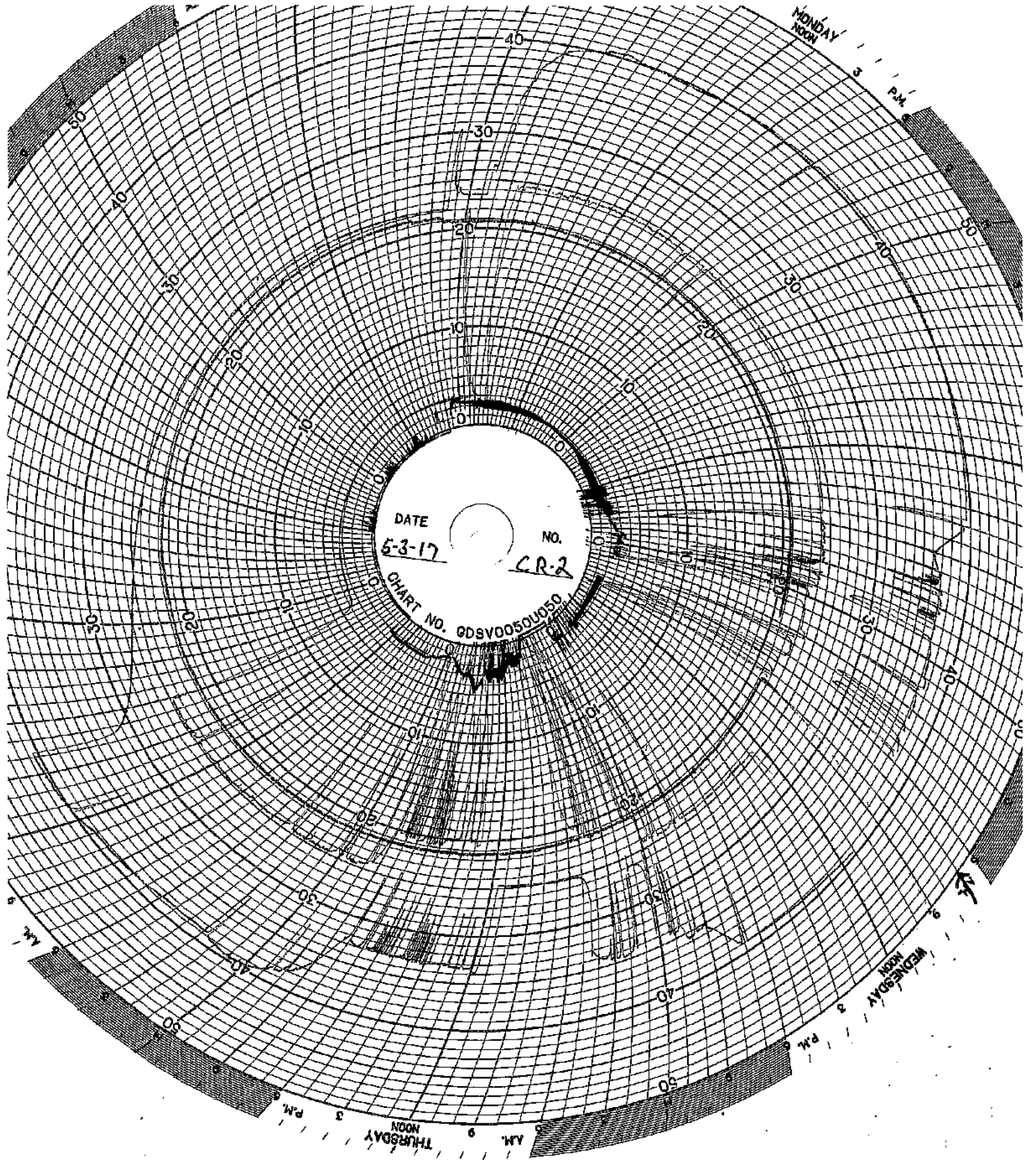
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DATE
5-3-17

NO.
CR-2

CHART NO. QDSV00501050

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0

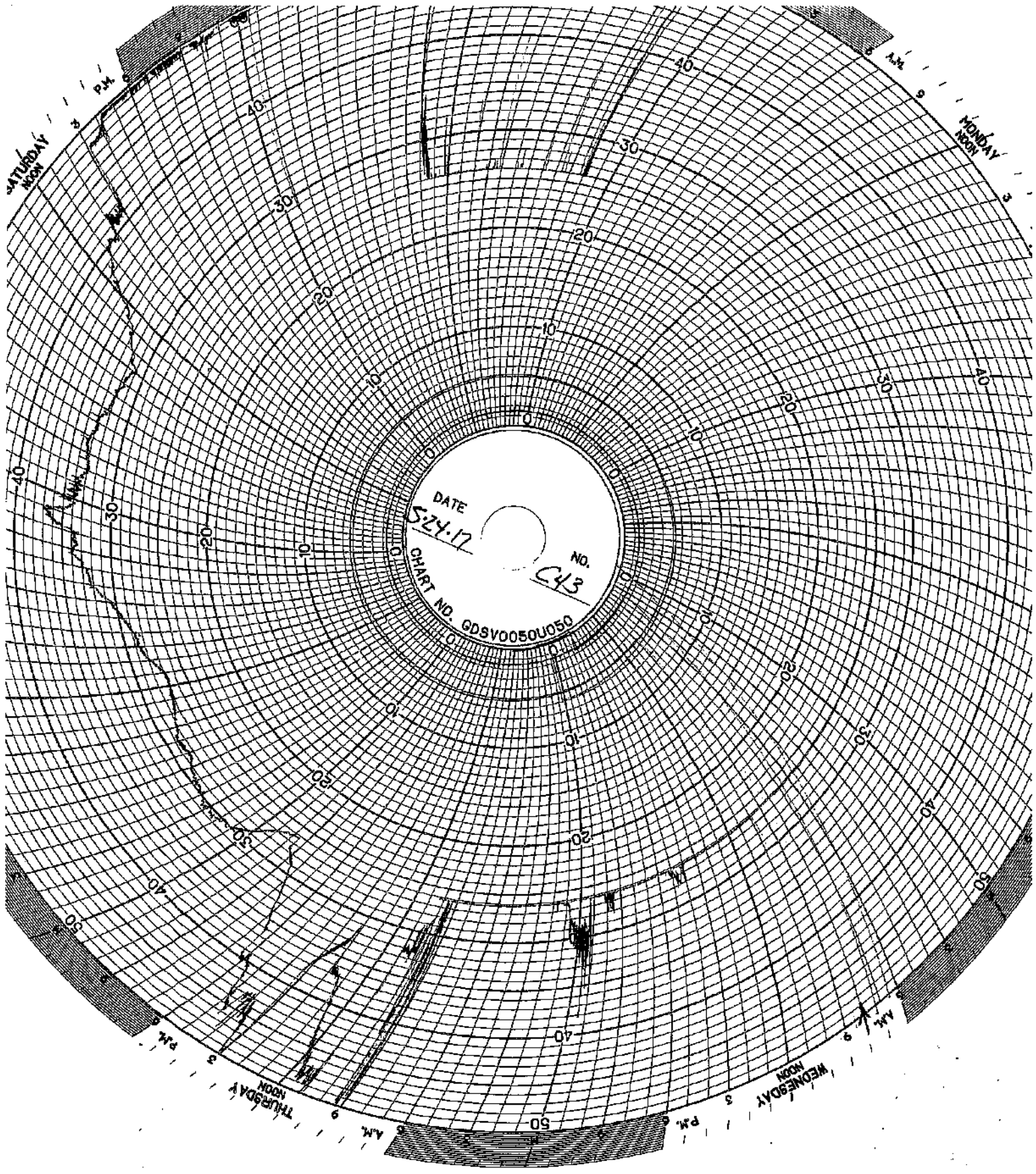
10

20

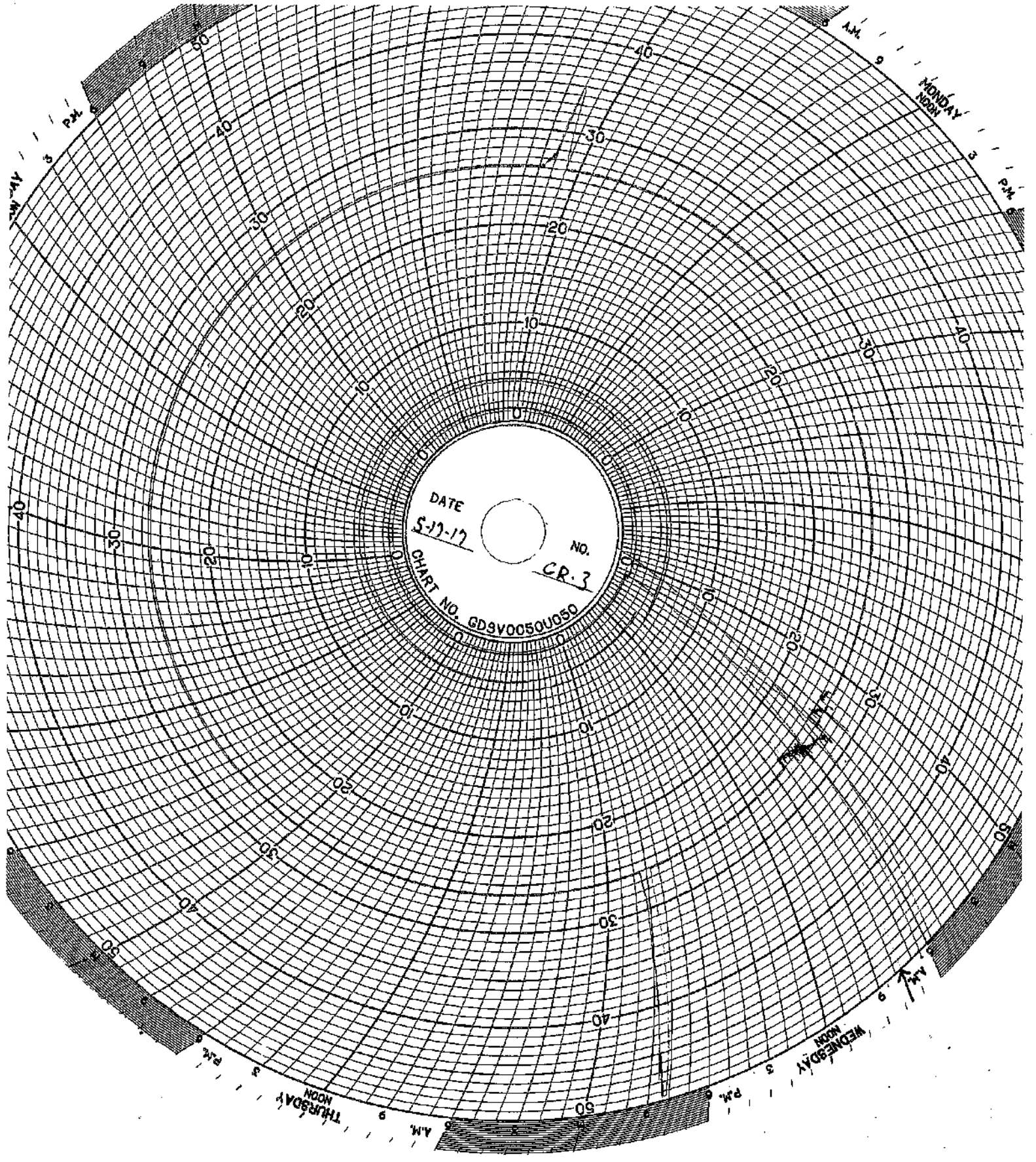
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50



DATE 5-24-17
CHART NO. GDSV0050U050
NO. 043



DATE
5-11-17
CHART NO. GD9V0050U050
NO.
CR-3

MONDAY
NOON

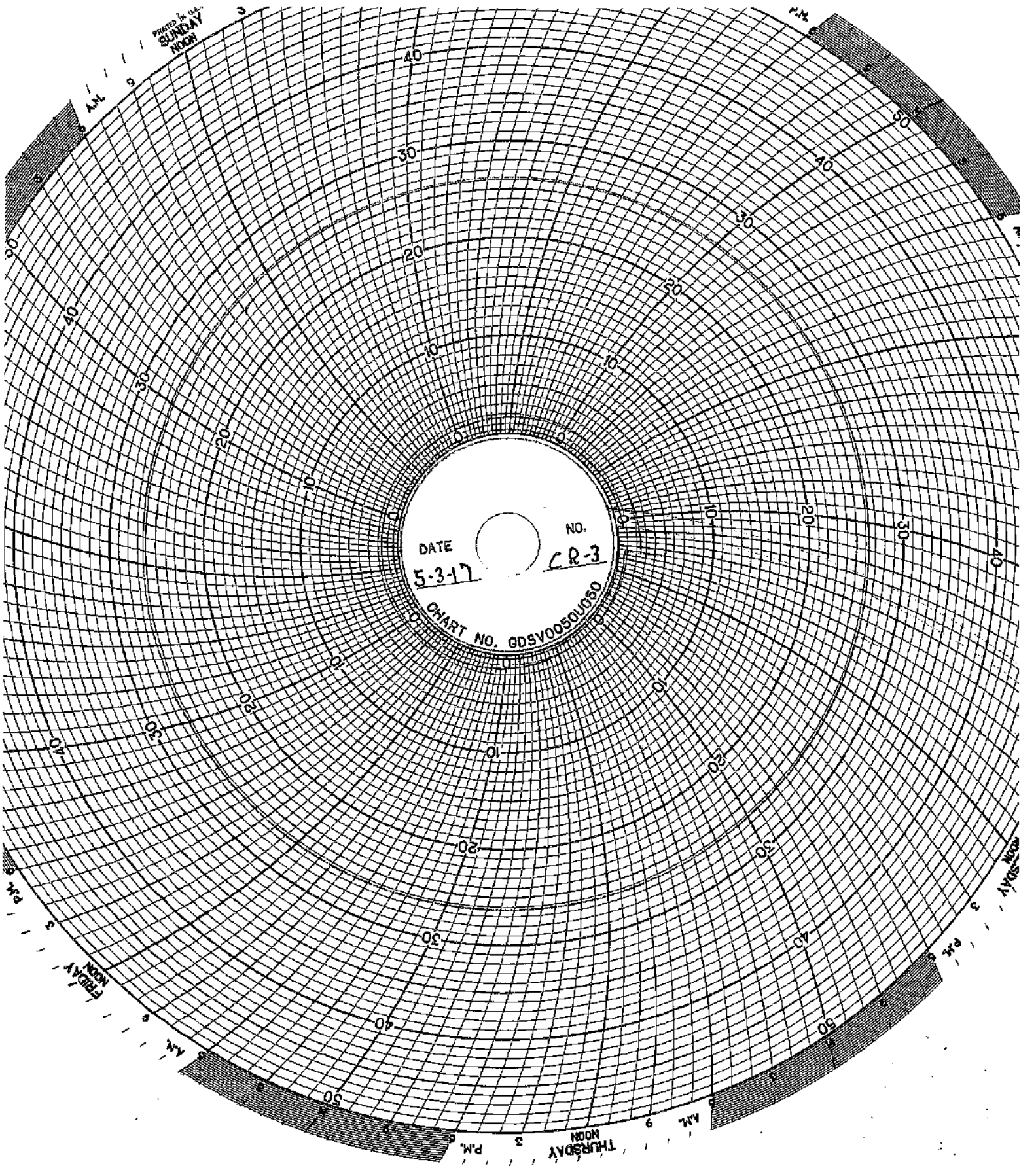
P.M.

WEDNESDAY
NOON

P.M.

THURSDAY
NOON

A.M.



Printed by U.S. SUNDAY NOON

DATE 5-3-17 NO. CR-3
CHART NO. GDSV0050U050

THURSDAY THURSDAY
FRIDAY FRIDAY
SUNDAY SUNDAY

MAINTENANCE LOG

UIC Monthly Maintenance Log

5/3/2017	Injection pump 1	Replaced outlet flange and hose
----------	------------------	---------------------------------

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.

GHESQUIERE PLASTIC TESTING, INC.

20450 HARPER AVENUE
HARPER WOODS, MI 48226
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

	<u>Hardness</u>
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHESQUIERE PLASTIC TESTING, INC.


M. W. Ghesquiere
President

MWG/kni

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TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

20460 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3538
FAX (313) 885-1771

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

Report #1402-78036
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:

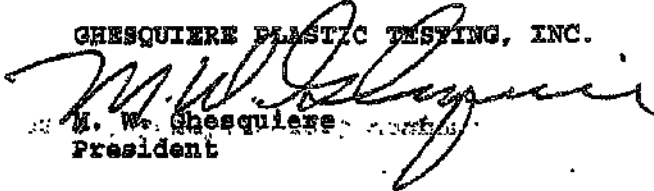
BARCOL HARDNESS

Hardness

Specimen 1: 90

Specimen was returned to the client on February 17, 2014.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm

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TOTAL 1 PAGES

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

	<u>Hardness</u>
Specimen 1	85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm



Testing. Development. Problem Solving.

October 2, 2014

TEST REPORT

PN 118325

PO Attn: John Frost

PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By:

Melissa Martin
Sr. Project Technician

Approved By:

Jim Drummond
Physical & Plastics Testing, Manager



An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02
ISO 9001:2008 Registered

ISO 9001:2008
Registered

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www.ardl.com

2887 Gilchrist Rd. | Akron, Ohio 44305 | answers@ardl.com
Toll Free (800) 830-ARDL | Worldwide (330) 794-6600 | Fax (330) 794-6610



Testing. Development. Problem Solving.

October 2, 2014

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN118325

SUBJECT: Barcol Hardness on one material.
PO# Attn: John Frost

RECEIVED: One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a

Results

Barcol Hardness, Instant


97

Prepared By:


Melissa Martin
Sr. Project Technician

st

Approved By:


Scott W. Yates
Plastics Testing Assistant Manager

www.ardl.com

2887 Gilchrist Rd. | Akron, Ohio 44305 | answers@ardl.com
Toll Free (800) 830-ARDL | Worldwide (330) 794-6600 | Fax (330) 794-6610



AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

• TEST REPORT •

PN 125322

PO 00154

PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By:

Melissa Martin
Sr. Project Technician

Approved By:

Jim Drummond, Sr.
Physical & Plastic Testing, Manager



ACCREDITED
A Testing Lab
Certificate Numbers 255.01 & 255.02

An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02
ISO 9001:2008 Registered

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Registered

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Fax (330) 794-6610 | Worldwide (330) 794-6600



October 22, 2015

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 125322

SUBJECT: Barcol Hardness on one material.

RECEIVED: One small section identified as: Fiberglass Coupon.


BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

Results

Barcol Hardness, Instant

96

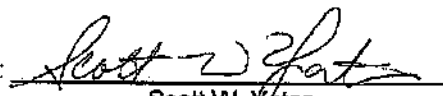
Prepared By:



Melissa Martin
Sr. Project Technician

to

Approved By:



Scott W. Yates
Plastics Testing Assistant Manager

December 12, 2016

TEST REPORT

PN 132662
PO

PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By:


Melissa Martin
Senior Project Technician

Approved By:


Jim Drummond
Physical Testing, Manager

Rev 04/19/16



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ISO 9001:2008 Registered

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December 12, 2016

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 132662


SUBJECT: Barcol Hardness on one (1) material.

RECEIVED: One (1) small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

RESULTS

Barcol Hardness, Instant 96

Prepared By: 
Melissa Martin
Senior Project Technician

Approved By: 
Scott Yates
Plastics Testing, Assistant Manager

wk

ARDL is ISO 17025 accredited by A2LA for the test methods listed on the certificates referenced on page one. NOTE: Non-ISO 17025 accredited test methods are designated with the ^ symbol to differentiate from ISO 17025 accredited methods in the body of the test report.

CORROSION MONITORING COUPONS VISUAL DESCRIPTION

May 11, 2017

Fiberglass Coupon

The coupon is dark orange (rust) in color with similar semi-smooth textures on both sides. Its cut edges appear sanded. The coupon is free of pits, cracks, swelling, wicking and blemishes. There has been minimal affect to this coupon.

Hastelloy Coupon

This coupon is identified as C276 with Serial Number 5. The coupon is silver in color with a lightly sandblasted texture. It is clean and free of pits, cracks, and blemishes. There appears to be no effect on this coupon.

Stainless Steel Coupon

The coupon had experienced substantial corrosion since last month. The coupon is seriously pitted and corroded. Continuous affect takes place with this coupon.

**CORROSION MONITORING PLAN
COUPON SUMMARY**

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (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	
8/12/2014	13.328 g	10.045 g	7.182 g	
9/17/2014	13.321 g	9.997 g	7.090 g	
10/30/2014	13.321 g	9.387 g	7.075 g	
11/21/2014	13.320 g	9.386 g	7.069 g	
12/19/2014	13.321 g	9.315 g	7.084 g	
1/12/2015	13.321 g	9.289 g	7.063 g	
2/23/2015	13.339 g	9.286 g	7.005 g	
3/31/2015	13.339 g	9.286 g	7.005 g	
4/27/2015	13.335 g	9.130 g	6.852 g	
5/21/2015	13.336 g	9.124 g	6.809 g	
6/12/2015	13.334 g	9.126 g	6.819 g	
7/27/2015	13.337 g	9.127 g	6.818 g	
8/26/2015	13.337 g	9.022 g	6.780 g	
9/21/2015	13.336 g	8.987 g	6.792 g	
10/19/2015	13.335 g	8.985 g	6.797 g	
11/16/2015	13.334 g	8.982 g	6.788 g	
12/17/2015	13.334 g	8.933 g	6.791 g	
1/29/2016	13.334 g	8.931 g	6.788 g	New stainless steel coupon
2/16/2016	13.332 g	8.799 g	6.757 g	
3/31/2016	13.339 g	9.286 g	7.005 g	
4/22/2016	13.333 g	8.590 g	6.744 g	
5/31/2015	13.334 g	6.084 g	6.784 g	
6/30/2016	13.328 g	10.942 g	6.793 g	
8/3/2016	13.326 g	10.529 g	6.743 g	
8/29/2016	13.325 g	10.020 g	6.723 g	
10/27/2016	13.325 g	8.765 g	6.708 g	
11/29/2016	13.327 g	8.571 g	6.740 g	
12/12/2016	13.323 g	8.223 g	6.717 g	
1/3/2017	13.325 g	8.059 g	6.712 g	
2/28/2017	13.324 g	7.634 g	6.727 g	
3/24/2017	13.325 g	7.370 g	6.732 g	
4/28/2017	13.325 g	6.736 g	6.736 g	
5/11/2017	13.323 g	7.352 g	6.689 g	

**INJECTION
FINGERPRINTS**

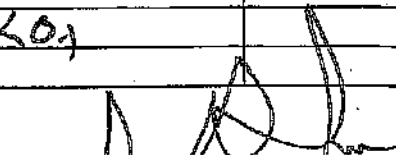
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:23AM 05/01/17
Receiving ID#	T05011701
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

LAB INFORMATION		OIL IN SAMPLES ONLY	
Always complete		Only if applicable	
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.)	6.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.3 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	70°F		
Conductivity	25.2 µS		
% Solids	1.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20%		
Radiation Screen (as needed)			
Lab Signature			

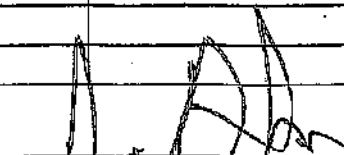
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9:36 AM 05/01/17
Receiving ID#	I 05011702
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	TE

COPY

LAB INFORMATION		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.)	6.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.9 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	36.6 mS		
% Solids	1.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1900 5/1/17
Receiving ID#	T05D11703
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	[Signature]

COPY

LAB INFORMATION		Other Items Only	
All Waste Streams			
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.)	6.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.03	TDS	1.5 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	29.0 mS		
% Solids	1.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

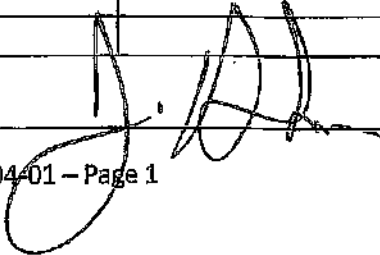
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:08AM 05/02/17
Receiving ID#	I 05021701
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION		IONIC/ANIONS ONLY	
Always Shown			
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.)	6.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.4 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	28.6 mS		
% Solids	1.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

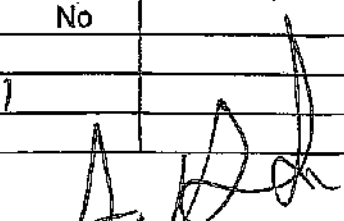
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9:25 AM 09/02/17
Receiving ID#	I 05021702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.R.

COPY

LAB INFORMATION		Oilfield Brines Only	
All waste shipments			
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.)	6.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.7 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	72°F		
Conductivity	34.5 mS		
% Solids	1.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1755 5/2/17
Receiving ID#	105001703
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

LAB INFORMATION		FIELD NOTES 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.)	6.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.5 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	72°F		
Conductivity	30.3 mS		
% Solids	1.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:15 AM 05/03/17
Receiving ID#	EG031701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION (Always Sample)		Oilfield Sites 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.)	6.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.6 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	30.6 mS		
% Solids	1.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:30 5/3/17
Receiving ID#	105031702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

LAB INFORMATION		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.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.7%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	80° F		
Conductivity	33.2 mS		
% Solids	1.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

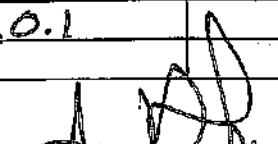
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2030 5/3/17
Receiving ID#	I05031703
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	JH

COPY

LAB INFORMATION		Field Data Only	
Always Shipments			
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.)	0.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.13	TDS	36.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	> 400.0ms		
% Solids	36.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

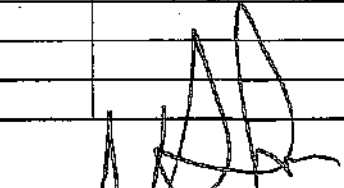
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:05 AM 05/09/17
Receiving ID#	LC5041701
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	TE

COPY

WASTE INFORMATION		CHEMICAL ANALYSIS	
All Waste Streams		Oil and Grease	
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	1.11	TDS	8.3 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	64°F		
Conductivity	165.1 mS		
% Solids	8.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

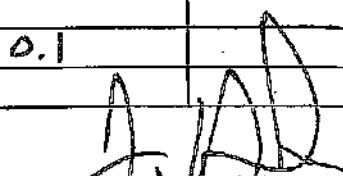
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	@ 13:42 05/04/17
Receiving ID#	T05041702
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H
Sampled by	J.H 7.

COPY

LAB INFORMATION		Other Parameters	
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.)	0.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.13	TDS	30.0 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	64 °F		
Conductivity	> 400.0 mS		
% Solids	30.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

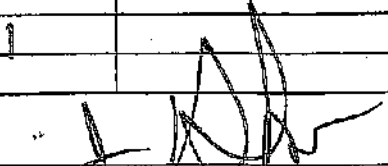
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 1805	5/4/17
Receiving ID#	T 05041703
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	J.H.

COPY

LAB INFORMATION		Oilfield Disposal	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CG Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.11	TDS	29.4 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	64°F		
Conductivity	> 400.0 mS		
% Solids	29.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

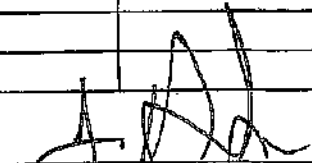
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2245 5/4/17
Receiving ID#	IOS041704
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	JH

COPY

LAB INFORMATION		On all lines only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CG Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.0 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66 °F		
Conductivity	39.7 mS		
% Solids	2.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

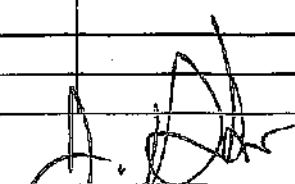
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12105AM 09/03/17
Receiving ID#	E 05051701
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	TE

COPY

LAB INFORMATION		OTHER ANALYSES 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.)	6.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	66°F		
Conductivity	36.6 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

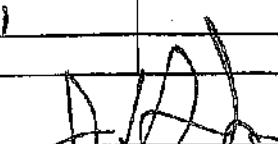
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10:30 AM 05/05/17
Receiving ID#	I 05051702
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	FE

COPY

GENERAL INFORMATION		CHEMICALS 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.)	6.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66 °F		
Conductivity	35.1 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2:18 PM 05/05/17
Receiving ID#	I 05051703
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION		FIELD TESTS ONLY	
All Waste Situations			
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.)	6.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	87 °F		
Conductivity	36.3 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

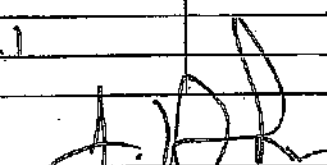
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:11 AM 05/08/12
Receiving ID#	E 05081701
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

LAB INFORMATION		ON ALL BINS 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.)	6.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	64 °F		
Conductivity	36.1 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

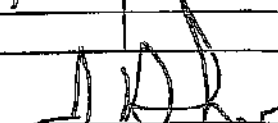
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11:22 AM 05/08/17
Receiving ID#	EG05081702
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TR

COPY

WASTE CHARACTERISTICS		OTHER TESTS ONLY	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CG Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.6 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	74 °F		
Conductivity	31.3 mS		
% Solids	1.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	40.1		
Radiation Screen (as needed)			
Lab Signature			

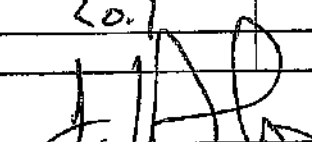
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1735 5/8/17
Receiving ID#	T05081703
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	AT.H.
Sampled by	

COPY

LAB INFORMATION		Chemical Analysis	
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.)	10.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.7 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	72 °F		
Conductivity	33.9 mS		
% Solids	1.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

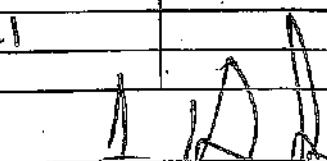
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:10 AM 05/09/17
Receiving ID#	105091701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.B.

COPY

LAB INFORMATION		OTHER TESTS ONLY	
All Waste Shipments		Oil & Grease 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.)	7.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	35.1 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11:41 am 5/19/17
Receiving ID#	105091702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	J.H.

COPY

LAB INFORMATION		Oil Field Bites 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.)	7.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.5 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	74 °F		
Conductivity	28.9 mS		
% Solids	1.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1950 5.19.17
Receiving ID#	105091703
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	

COPY

LAB INFORMATION		Chemical Elements Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CG 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	1.07	TDS	12.6 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	65 °F		
Conductivity	251.1 mS		
% Solids	12.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

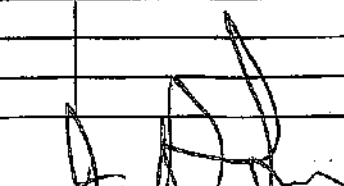
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:20AM 05/10/17
Receiving ID#	I 051017C1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TR

COPY

TEST INFORMATION		ANALYSIS	
All Waste Characteristic		Standard	Result
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.)	1.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	6.4 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65 °F		
Conductivity	128.60 mS		
% Solids	6.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

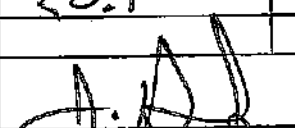
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	5:15 AM 05/10/17
Receiving ID#	505101702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

LAB INFORMATION		Oil & Grease 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	1.11	TDS	13.3 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65 °F		
Conductivity	256.6 mS		
% Solids	13.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

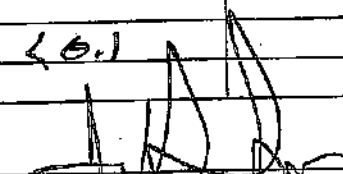
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1130 AM 05/10/17
Receiving ID#	J05101703
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M.
Sampled by	TE

COPY

LAB INFORMATION		Other Bites Only	
All Waste Elements			
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CG Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	36.3 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1500 5/10/17
Receiving ID#	EGT 05101704
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	o
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	[Signature]

COPY

WASTE INFORMATION	Other Elements on
Compatible? (RT#)	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	TDS
Physical Description	Resistivity
Stream Consistency	Sulfate
Oil in Sample	
Temperature	
Conductivity	
% Solids	
Turbidity	
Color (visual)	
TSS (%)	
Radiation Screen (as needed)	
Lab Signature	[Signature]

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2300 5/10/17
Receiving ID#	I-05101705
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

LAB INFORMATION		Other Elements Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Wastes Only)?		Calcium	
TOC (ppm)(CG Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.9 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	35.9 mS		
% Solids	1.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:10AM 05/11/17
Receiving ID#	EG05111701
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	JH
Sampled by	TR

COPY

LAB INFORMATION		Other Elements	
Always complete			
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.)	7.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	65 °F		
Conductivity	35.2 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

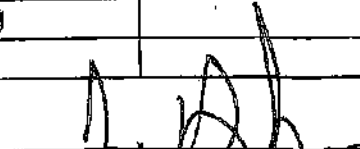
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11:15 AM 05/11/17
Receiving ID#	E0511702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

LAB INFORMATION		Other Parameters Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CG Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.9 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	90 °F		
Conductivity	37.4 mS		
% Solids	1.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

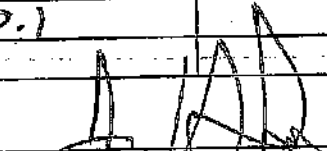
ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1830 5/11/17
Receiving ID#	I 05111703
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.A.
Sampled by	J.A.

03

COPY

LAB INFORMATION		Field Data Only	
Always Submit			
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.)	6.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	83 °F		
Conductivity	35.4 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

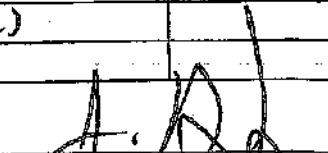
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	N/A 05/2/17
Receiving ID#	EGT0512/201
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	JH

COPY

WASTE OBSERVATION		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.)	6.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	10.1 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66 °F		
Conductivity	200.9 mS		
% Solids	10.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8:50 PM 05/14/17
Receiving ID#	505141701
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	[Signature]

COPY

LAB INFORMATION		Oils & Greases 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.)	6.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	9.9 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66 °F		
Conductivity	201.2 mS		
% Solids	9.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

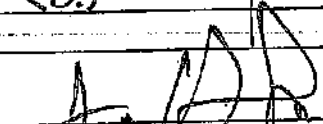
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:00AM 05/15/17
Receiving ID#	I 05151701
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION		Other Elements Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CG Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	9.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	66 °F		
Conductivity	196.0 mS		
% Solids	9.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	20:30 5/15/17
Receiving ID#	T05151702
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DAK

COPY

LAB INFORMATION		FIELD DATA 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.)	6.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.9 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	75 °F		
Conductivity	42.8 mS		
% Solids	2.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

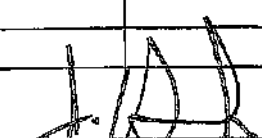
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9:00 PM 05/15/17
Receiving ID#	505131703
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	TE

COPY

LAB INFORMATION		FIELD DATA	
All Waste Shipments		On Site Data	
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.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.2 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	69 °F		
Conductivity	42.6 mS		
% Solids	2.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

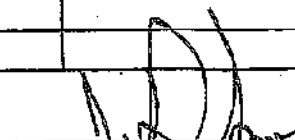
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:05AM 05/16/17
Receiving ID#	TC05161901
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

LAB INFORMATION		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.)	0.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.14	TDS	15.3 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	75 °F		
Conductivity	305.6 mS		
% Solids	15.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	802 AN 05/16/17
Receiving ID#	I 05161702
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.K.

COPY

LAB INFORMATION	Oilfield Use Only
Compatible? (RT#)	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	TDS
Physical Description	Resistivity
Stream Consistency	Sulfate
Oil in Sample	
Temperature	
Conductivity	
% Solids	
Turbidity	
Color (visual)	
TSS (%)	
Radiation Screen (as needed)	
Lab Signature	

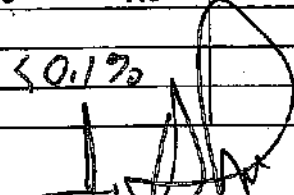
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:05 AM 5/17/17
Receiving ID#	T05171701
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION		Oil & Grease Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CG Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.14	TDS	15.3 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	75 °F		
Conductivity	305.6 mS		
% Solids	15.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1 %		
Radiation Screen (as needed)			
Lab Signature			

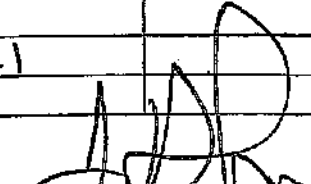
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7:02 Am 5/17/17
Receiving ID#	505171702
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION		OTHER TESTS 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.)	0.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.13	TDS	32.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	73 °F		
Conductivity	> 400.0 mS		
% Solids	32.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

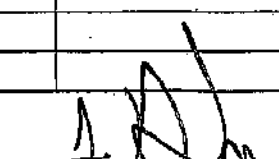
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:01 5/17/17
Receiving ID#	J 05171703
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION		OTHER INFORMATION	
ALL WASTE SAMPLES			
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.)	7.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.2 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	72 °F		
Conductivity	42.9 mS		
% Solids	4.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	2.2		
Radiation Screen (as needed)			
Lab Signature			

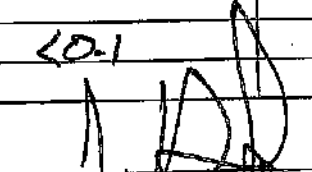
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3:40p 05/17/17
Receiving ID#	EGT05171704
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	JKF

COPY

LAB INFORMATION		Oil & Grease Only	
Waste Streams			
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.)	8.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.5 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	79 °F		
Conductivity	49.7 mS		
% Solids	2.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	10.1		
Radiation Screen (as needed)			
Lab Signature			

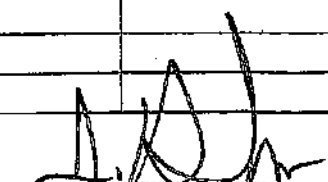
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10:00pm 5/17/17
Receiving ID#	109171705
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION		Oil & P. Res. 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.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.2 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	76 °F		
Conductivity	44.6 mS		
% Solids	2.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

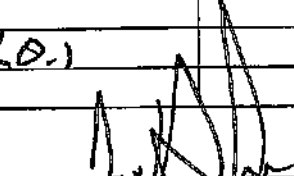
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1205 Am 5/18/17
Receiving ID#	I05181701
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION		Oilfield/Bines 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.)	6.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.1 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	76 °F		
Conductivity	42.2 mS		
% Solids	2.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

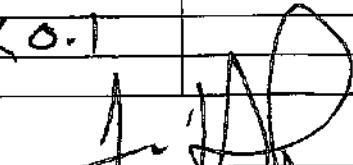
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1:25 pm 5/18/17
Receiving ID#	105181702
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION		Critical Items 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.)	6.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.0
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	75°F		
Conductivity	42.0 mS		
% Solids	2.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

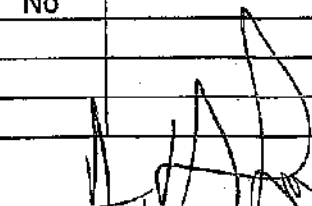
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9:01 AM 05/19/17
Receiving ID#	505191701
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JAH
Sampled by	FE

COPY

LAB INFORMATION		Oil and Grease Only	
All Waste Streams			
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.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.9 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	82 °F		
Conductivity	37.7 mS		
% Solids	1.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

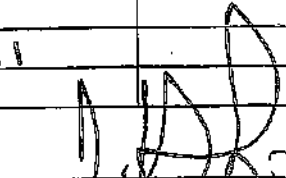
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9/20/11 05/21/17
Receiving ID#	105211701
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	T.R.

COPY

LAB INFORMATION		OTHER FILLS DATA	
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.)	7.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	68 °F		
Conductivity	35.9 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	40.1		
Radiation Screen (as needed)			
Lab Signature			


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:05AM 05/22/17
Receiving ID#	IC5221701
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

COPY

LAB INFORMATION		ORIGINAL PHOSPHATE 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.)	7.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67 °F		
Conductivity	36.5 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

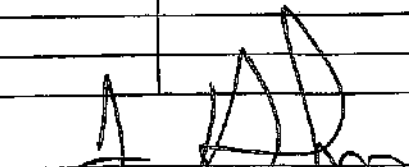
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	05/22/17
Receiving ID#	6:50P I0522102
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	JKF

COPY

WASTE INFORMATION		ANALYSIS RESULTS	
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.)	7.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.03	TDS	1.9%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	70 °F		
Conductivity	37.8 mS		
% Solids	1.9 2.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	0.5		
Radiation Screen (as needed)			
Lab Signature			


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:09pm 05/23/17
Receiving ID#	IL05231701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Marquise B

COPY

LAB INFORMATION		Other Elements	
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.)	2.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.03	TDS	2.1 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	70 °F		
Conductivity	41.7		
% Solids	2.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	0.1		
Radiation Screen (as needed)			
Lab Signature			

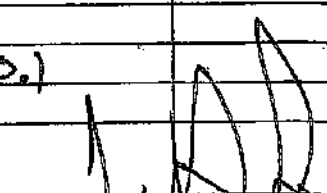
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8:20pm 05/23/17
Receiving ID#	JOS231702
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	M.B.

COPY

LAB INFORMATION		Field Data Only	
All Waste Streams			
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.)	2.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.03	TDS	2.3 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	71 °F		
Conductivity	46.4 mS		
% Solids	2.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

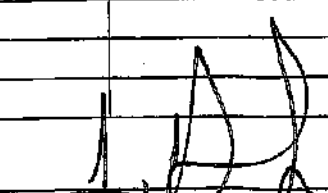
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:12 am 05/24/17
Receiving ID#	10529761
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	MB

COPY

WASTE INFORMATION		CHEMICALS ONLY	
Al Waste Elements			
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.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	7.2%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	71 °F		
Conductivity	146.8 mS		
% Solids	7.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

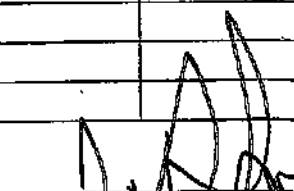
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	N/A 05/24/17
Receiving ID#	IE05241702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION		Other Parameters 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.)	8.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.03	TDS	2.4 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	69°F		
Conductivity	48.5 mS		
% Solids	11.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	9.0		
Radiation Screen (as needed)			
Lab Signature			


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4:30 PM 05/24/17
Receiving ID#	IO5241703
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB INFORMATION		CIRCULARS ONLY	
All Waste Shipments			
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.)	8.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	2.4 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	69 °F		
Conductivity	47.8 mS		
% Solids	2.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

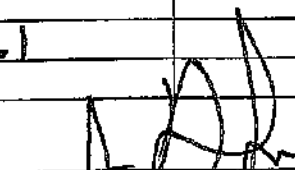
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:58 am 05 AS / 17
Receiving ID#	LD525701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	G.H.
Sampled by	MB

COPY

LAB INFORMATION		Other Parameters	
All Waste Shipments		Oil & Grease Only	
Compatible? (RT#)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	7.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.03	TDS	2.3 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	69 °F		
Conductivity	45.0 mS		
% Solids	2.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	0.1		
Radiation Screen (as needed)			
Lab Signature			

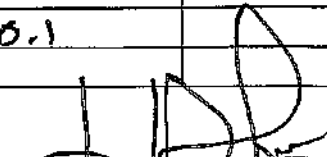
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11:25 am 5/25/17
Receiving ID#	105251702
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	M.B.

COPY

LAB INFORMATION		OTHER TESTS 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.)	7.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.5
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	69°F		
Conductivity	43.0 µS		
% Solids	2.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

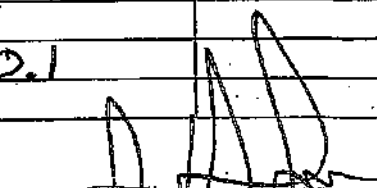
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10:05 AM 05/29/17
Receiving ID#	EGT 05291701
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	JH
Sampled by	TE

COPY

LAB INFORMATION		Oil and Bites 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.)	7.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.9 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	75 °F		
Conductivity	38.7 mS		
% Solids	2.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	0.1		
Radiation Screen (as needed)			
Lab Signature			

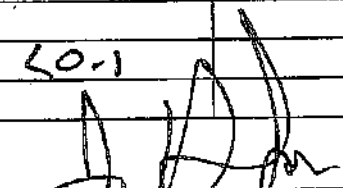
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1:00 AM 05/30/17
Receiving ID#	105301701
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	TR

COPY

LAB INFORMATION		Oilfield Sites 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.)	8.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.5 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	72 °F		
Conductivity	48.8 mS		
% Solids	2.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	50.1		
Radiation Screen (as needed)			
Lab Signature			

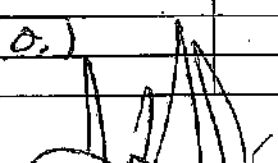
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9450079 05/30/17
Receiving ID#	I.05301702
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	T.C.

COPY

LAB INFORMATION		OIL & BLENDS	
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.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.1 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	70°F		
Conductivity	41.6 mS		
% Solids	2.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

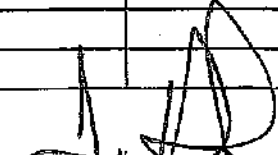
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	5:23 AM 05/31/17
Receiving ID#	505311201
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TF

COPY

LAB INFORMATION		OTHER TESTS ONLY	
All Waste Shipments		Oil Refineries 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	1.10	TDS	28.0%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	69 °F		
Conductivity	> 400.0 mS		
% Solids	28.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11:15 am 05/31/17
Receiving ID#	I 05311702
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	MB

COPY

LAB INFORMATION		ON SITE TESTS ONLY	
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.09	TDS	18.7 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	73 °F		
Conductivity	372.10 mS		
% Solids	18.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

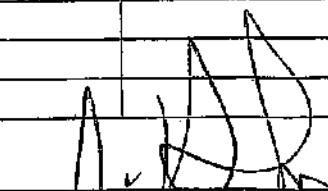
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1900 05/31/17
Receiving ID#	JOS311703
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.K.F.

COPY

WASTE INFORMATION		Oil and Grease 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.)	5.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	86 °F		
Conductivity	35.3 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

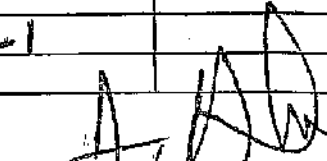
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	N/A 05/31/17
Receiving ID#	50531704
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

LAB INFORMATION		On field Bins only	
Always a Sample			
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.)	7.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.8 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	71 °F		
Conductivity	35.9 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	10.1		
Radiation Screen (as needed)			
Lab Signature			

**WASTE STREAMS
CHARACTERIZATIONS**

GENERATOR INFORMATION



WASTE INFORMATION

Name of Waste/Common Chemical Name:

Ammonium Nitrate Solution (ANSol)

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

Untreated ammonium nitrate solution (ANSol) is a by-product of the explosive manufacturing process at Holston Army Ammunition Plant (HAAP). ANSol is approximately 60% ammonium nitrate, 10% methylenediamine nitrate, 6% dimethylenediamine nitrate, 1% bisamyl ammonium nitrate, 3% combined PEX and PAK, and 10% water. Due to the temperature dependent, physical properties of ANSol, special pre-approval steps are required prior to disposal. In order for ANSol not to crystallize below 65°F, it is diluted to 52.5 to 70% water. This dilute ANSol is also filtered to 5 micron to facilitate solids removal.

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: D007

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Dark Orange</u>	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other <u>1.0-1.5</u>	pH <u>3.0-8.0</u> <u>acceptable</u> <u>05/15/17</u>
---	---	---	---	---

pH: NA ≤ 2 2-4 4-8 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 - 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
Water	75	52.5	Dimethylenediamine Nitrate	1	0
Ammonium Nitrate	36	25	Cyclohexanemethylenediamine Nitrate	0.5	0
Non-FRI Chemicals	-	-	Cyanide	0.5	0
Methylenediamine Nitrate	10	0			
Dimethylenediamine Nitrate	3.5	0			

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	ppm	Present	ppm				
PCB	<input checked="" type="checkbox"/> _____	Aromatic Amine	<input checked="" type="checkbox"/> _____	Arsenic (As)	D004	<input type="checkbox"/> < 5	ppm
Dioxins	<input checked="" type="checkbox"/> _____	Festioides	<input checked="" type="checkbox"/> _____	Barium (Ba)	D005	<input type="checkbox"/> < 100	ppm
Cyanides Reactive	<input checked="" type="checkbox"/> _____	Rodentioides	<input checked="" type="checkbox"/> _____	Cadmium (Cd)	D006	<input type="checkbox"/> < 1	ppm
Cyanides Total	<input checked="" type="checkbox"/> _____	Fungioides	<input checked="" type="checkbox"/> _____	Chromium (Cr)	D007	<input checked="" type="checkbox"/> < 3	ppm
Sulfides Reactive	<input checked="" type="checkbox"/> _____			Lead (Pb)	D008	<input type="checkbox"/> < 5	ppm
Sulfides Total	<input checked="" type="checkbox"/> _____			Mercury (Hg)	D009	<input type="checkbox"/> < 0.2	ppm
				Selenium (Se)	D010	<input type="checkbox"/> < 1	ppm
				Silver (Ag)	D011	<input type="checkbox"/> < 5	ppm

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds _____
- DOT Shipping Name EG, NADES, WASTE HAZARDOUS WASTE, LIQUID, N.O.S., G, III, D007 _____ Hazard Class _____ UN/NA _____
 PG _____ ERG _____ Hazardous Constituents for "n.o.s." _____
- Method of Shipment: Bulk Tanker Van truck Rail Car Drums Totes
- Number of Units to Ship Now: 4-10/year _____ 6. Anticipated Volume / Units per Year: _____ or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

GENERATOR'S CHAIN OF CUSTODY RECORDING 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.

Sample and chain of custody sent separately.

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

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

ANG-77 (ANSOL)

01120

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According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Revision Date: 2/18/2016 Date of Issue: 05/05/2015

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: ANG-77 (ANSOL)

Formula: NH_4NO_3 (Ammonium Nitrate), $\text{CH}_3\text{NH}_2\text{NO}_2$ (Methylamine Nitrate)

Synonyms: Aqueous AN/MAN Solution (75-90% Solids)

Holston SDS Number: 5726

1.2. Intended Use of the Product

Use of the substance/mixture: For professional use only.

1.3. Name, Address, and Telephone of the Responsible Party

Company

ORDNANCE SYSTEMS INC [KINGSPORT]

Holston Army Ammunition Plant

4509 West Stone Drive

Kingsport, TN 37660

E-mail contact information: OSIREACHInfo@baesystems.com

1.4. Emergency Telephone Number

Emergency Number

: For Emergency Call CHEMTREC® Day or Night, Within USA and Canada: 1-800-424-9300, Outside USA and Canada: +1 703-741-5970 (collect calls accepted), For more information about this SDS, call OSI Safety (423) 578-6000 or (423) 578-6318

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Ox. Liq. 3 H272

Skin Corr. 1A H314

Eye Dam. 1 H318

STOT SE 1 H370

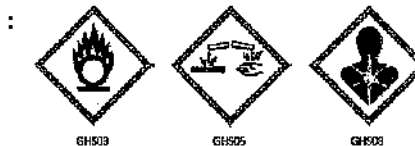
STOT RE 2 H373

Full text of H-phrases: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H272 - May intensify fire; oxidizer.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H370 - Causes damage to organs.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements (GHS-US)

: P210 - Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking.
P220 - Keep/Store away from combustible material, oxidizable materials, and incompatible materials.
P221 - Take any precaution to avoid mixing with combustible material, oxidizable materials, and incompatible materials.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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Chronic Symptoms: Chronic local and systemic effects are not fully known. Inhalation and ingestion can result in systemic poisoning, usually affecting the bone marrow (blood-cell-producing system) and the liver.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray.

Unsuitable Extinguishing Media: Dry chemical, carbon dioxide, or regular foam.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: May intensify fire; oxidizer. Will burn if exposed to heat, and in addition, will accelerate the burning of other combustibles, resulting in more rapid spread of fire.

Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Smothering, contact with organic material, or combustible material may cause an explosive situation.

Reactivity: May cause or intensify fire; oxidizer. May accelerate the burning of other combustible materials. Smothering, contact with organic material, or combustible material may cause an explosive situation.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: Do not add water to molten material as this may cause spattering. Do not allow run-off from firefighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapor, mist, or spray. Do not get in eyes, on skin, or on clothing. Keep away from combustible material.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill. Do not take up in combustible material such as saw dust or cellulosic material.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic fumes. Smothering, contact with organic material, or combustible material may cause an explosive situation. Do not puncture or incinerate container.

Precautions for Safe Handling: Take any precaution to avoid mixing with combustibles. Handle in accordance with good industrial hygiene and safety procedures. Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from combustible materials, extremely high or low temperatures, direct sunlight, ignition sources, incompatible materials.

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Incompatible Products: strong acids. Strong bases. Strong oxidizers. Halogens (F, Cl, Br, I). Chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. Organic materials. Combustible materials.

Incompatible Materials: Heat sources. Combustible material.

7.3. Specific End Use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Cyclonite (121-82-4)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1.5 mg/m ³
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	3 mg/m ³

8.2. Exposure Controls

Appropriate Engineering Controls

: Proper grounding procedures to avoid static electricity should be followed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Product to be handled in a closed system and under strictly controlled conditions. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing

: For explosive-handling workers, caps and coveralls for full body (arms and legs) protection are recommended. Cotton coveralls, underwear, socks and conductive shoes are recommended to avoid human static discharge.

Hand Protection

: Wear chemically resistant protective gloves.

Eye Protection

: Chemical safety goggles.

Skin and Body Protection

: Wear suitable protective clothing. Wear long sleeves.

Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Environmental Exposure Controls

: Do not allow the product to be released into the environment.

Consumer Exposure Controls

: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Brown thickened slurry
Odor	: Amine type odor
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Precipitation Point	: No data available
Boiling Point	: 120 °C (248 °F)
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: No data available

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Relative Density	: No data available
Specific Gravity	: 1.350
Solubility	: 100G/100CC @ 25 °C
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
Molecular Weight	: 80.04 (Ammonium Nitrate), 94.08 (Methylamine Nitrate)

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. **Reactivity:** May cause or intensify fire; oxidizer. May accelerate the burning of other combustible materials. Smothering, contact with organic material, or combustible material may cause an explosive situation.

10.2. **Chemical Stability:** May intensify fire; oxidizer.

10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

10.4. **Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Overheating. Open flame. Combustible materials. Sources of ignition. Incompatible materials.

10.5. **Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers. Halogens. Chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides.

10.6. **Hazardous Decomposition Products:** Carbon oxides (CO, CO₂). Nitrogen oxides. Toxic vapors. Ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

Ammonium nitrate (6484-52-2)	
LD50 Oral Rat	2217 mg/kg
LC50 Inhalation Rat	> 88.8 mg/l/4h
Cyclonite (121-82-4)	
LD50 Oral Rat	71 mg/kg
Cyclotetramethylenetetranitramine (2691-41-0)	
LD50 Oral Rat	1670 mg/kg
LD50 Dermal Rat	982 mg/kg (Species: New Zealand White)

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Causes damage to organs.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation. Excessive exposure may cause central nervous system effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

Symptoms/Injuries After Skin Contact: Redness. Pain. Serious skin burns. Blisters.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Harmful if swallowed. Weakness. Dizziness. Headache. Nausea. Convulsions.

Unconsciousness.

Chronic Symptoms: Chronic local and systemic effects are not fully known. Inhalation and ingestion can result in systemic poisoning, usually affecting the bone marrow (blood-cell-producing system) and the liver.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

Ecology - Water : Harmful to aquatic life with long lasting effects.

Cyclonite (121-82-4)	
LC50 Fish 1	11.14 - 14.97 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

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Cyclotetramethylenetetranitramine (2691-41-0)	
LC50 Fish 1	8.8 - 26 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC 50 Fish 2	> 32 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2. Persistence and Degradability No additional information available

12.3. Bioaccumulative Potential

Ammonium nitrate (6484-52-2)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	-3.1 (at 25 °C)
Cyclonite (121-82-4)	
Log Pow	0.87 (@ 23 °C/73.4 °F)

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional information: Clean up even minor leaks or spills if possible without unnecessary risk.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT

Proper Shipping Name : OXIDIZING LIQUID, N.O.S. (Ammonium Nitrate, Methylamine Nitrate)
Hazard Class : 5.1
Identification Number : UN3139
Label Codes : 5.1
Packing Group : II
ERG Number : 140



14.2. In Accordance with IMDG

Proper Shipping Name : OXIDIZING LIQUID, N.O.S. (Ammonium Nitrate, Methylamine Nitrate)
Hazard Class : 5.1
Identification Number : UN3139
Packing Group : II
Label Codes : 5.1
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-Q



14.3. In Accordance with IATA

Proper Shipping Name : OXIDIZING LIQUID, N.O.S. (Ammonium Nitrate, Methylamine Nitrate)
Packing Group : III
Identification Number : UN3139
Hazard Class : 5.1
Label Codes : 5.1
ERG Code (IATA) : 5L



SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

ANG-77 (ANSOL)	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Sudden release of pressure hazard
Ammonium nitrate (6484-52-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Methanamine, nitrate (22113-87-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Cyclonite (121-82-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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Cyclotetramethylenetetranitramine (2691-41-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Sudden release of pressure hazard

15.2 US State Regulations

Ammonium nitrate (6484-52-2)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List
Cyclonite (121-82-4)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Cyclotetramethylenetetranitramine (2691-41-0)
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date	: 05/05/2015
Other information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Expl. 1.1	Explosive Category 1.1
Expl. 1.5	Explosive Category 1.5
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Ox. Liq. 3	Oxidizing liquids Category 3
Ox. Sol. 3	Oxidizing solids Category 3
Skin Corr. 1A	Skin corrosion/irritation Category 1A
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
H201	Explosive; mass explosion hazard
H205	May mass explode in fire
H272	May intensify fire; oxidizer
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

ANG-77 (ANSOL)

Safety Data Sheet

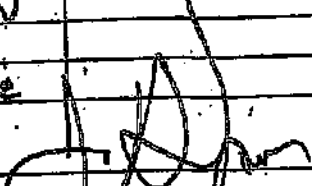
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

Date	3/12/17
Receiving ID#	ANSOL
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	CLINT

Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium
TOC (ppm)(CC Waste Only)?	N/A	Total Iron
Flash Point (°F)	> 140	Magnesium
pH (S.U.)	6.3	Sodium Chloride
Cyanides? (mg/L)	< 30	Bicarbonate
Sulfides? (ppm)	< 200	Carbonate
Specific Gravity	1.17	TDS
Physical Description	liquid	Resistivity
Stream Consistency	<input checked="" type="radio"/> Yes <input type="radio"/> No	Sulfate
Oil in Sample	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Temperature	72°F	
Conductivity	345.7 mS	
% Solids	30.6	
Turbidity	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Color (visual)	Brown	
TSS (%)	50.1	
Radiation Screen (as needed)	Negative	
Lab Signature		

01125

Generator's Waste Profile and Service Agreement

In order to properly transport and manage your waste stream, please complete the following:

SECTION 1: GENERAL INFORMATION

Generator Information	Customer Information	Billing Information
-----------------------	----------------------	---------------------

SECTION 2: WASTE INFORMATION

Common Name of Waste: Contaminated Salt Water

Process Generating Waste: Leak of propylene glycol that went into a storage tank

Waste Volume Produced Annually: 25000

Shipping Increments: One Time Weekly Monthly Quarterly Yearly Other

Check Any Hazardous Characteristics That Apply: Reactive Corrosive Toxic Flammable Listed

SECTION 3: USED / WASTE OIL

Does your waste stream contain oil? Yes No

Is this oil considered to be a "used oil" as determined by 40CFR 260.10? Yes No

(If yes, then please complete used oil certification sheet.)

Attach analytical and check the appropriate box below for any parameters for which your oils have been tested:

PCBs TCLP (Volatiles/Semivolatiles) Total Halogens Total Metals

SECTION 4: PHYSICAL AND CHEMICAL PROPERTIES

acceptable
P
650917

Is this waste a nonhazardous liquid industrial by-product?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO																
What is the Color?	<input type="checkbox"/> White <input type="checkbox"/> Grey <input type="checkbox"/> Black <input type="checkbox"/> Clear <input type="checkbox"/> (Clear to green)																
Describe the Odor.	<input type="checkbox"/> Strong <input type="checkbox"/> Mild <input checked="" type="checkbox"/> None																
Does it Pass Paint Filter Test	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO																
Physical State at 70° F	<input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Slurry <input type="checkbox"/> Other																
Density (weight/volume)	8 pounds / gallon																
Specific Gravity	1																
pH:	7																
Flash Point (closed cup)	>200F																
Viscosity at 70° F	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low																
Percent Composition	_____ 100 _____ % Water _____ % Oil _____ % Rag _____ % Solids																
Solids Composition:	<input type="checkbox"/> Suspended <input type="checkbox"/> Settable <input type="checkbox"/> Both																
Chemical Composition: <i>List all major constituents, include herbicides, pesticides, carcinogens, pathogens and other hazardous constituents.</i>																	
<table border="1"> <thead> <tr> <th>Chemical</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Water</td> <td>99%</td> <td>100%</td> </tr> <tr> <td>Propylene Glycol</td> <td>.1%</td> <td>.5%</td> </tr> <tr> <td>-0-VOCs</td> <td>%</td> <td>%</td> </tr> <tr> <td></td> <td>%</td> <td>%</td> </tr> </tbody> </table>			Chemical	Minimum	Maximum	Water	99%	100%	Propylene Glycol	.1%	.5%	-0-VOCs	%	%		%	%
Chemical	Minimum	Maximum															
Water	99%	100%															
Propylene Glycol	.1%	.5%															
-0-VOCs	%	%															
	%	%															

SECTION 5. TCLP AND TESTING CERTIFICATION

Please attach analytical results to this profile and check either "YES" indicating concentrations above the regulatory level or "NO" verifying the constituent is not present above regulatory level. *All constituents must have either a "YES" or "NO" checked.*

Check the method used: Total TCLP

METALS mg/L (ppm)			
Metal	Level > than	Yes	No
D004 Arsenic	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D005 Barium	100.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D006 Cadmium	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D007 Chromium	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D008 Lead	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D009 Mercury	0.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D010 Selenium	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D011 Silver	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>

ORGANICS mg/L (ppm)			
Material	Level > than	Yes	No
D018 Benzene	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D019 Carbon Tetrachloride	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D021 Chlorobenzene	100.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D022 Chloroform	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D028 1, 2-Dichloroethane	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D029 1, 1-Dichloroethylene	0.7	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D035 Methyl Ethyl Ketone	200.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D039 Tetrachloroethylene	0.7	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D040 Trichloroethylene	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D043 Vinyl Chloride	0.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>

ACID EXTRACTABLES mg/L (ppm)			
Material	Level > than	Yes	No
D023 o-Cresol	200	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D024 m-Cresol	200	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D025 p-Cresol	200	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D026 Cresol	200	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D037 Pentachlorophenol	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D041 2, 4, 5-Trichlorophenol	400	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D042 2, 4, 6-Trichlorophenol	2.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>

BASE NEUTRAL EXTRACTABLES mg/L (ppm)			
Material	Level > than	Yes	No
D027 1, 4-Dichlorobenzene	7.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D030 2, 4-Dinitrotoluene	0.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D032 Hexachlorobenzene	0.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D033 Hexachlorobutadiene	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D034 Hexachloroethane	3.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D036 Nitrobenzene	2.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D038 Pyridine	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>

HERBICIDES and PESTICIDES mg/L (ppm)			
Material	Level > than	Yes	No
D012 Endrin	0.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D013 Lindane	0.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D014 Methoxychlor	10.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D015 Toxaphene	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D016 2, 4-D	10.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D017 2, 4, 5-TP (Silvex)	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D020 Chlordane	0.03	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D031 Heptachlor	0.008	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SECTION 6 SHIPPING INFORMATION

Is this waste a D.O.T. Hazardous Material?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
By-Product Reporting Code:	<input type="checkbox"/> 017L – Crankcase Oil <input type="checkbox"/> 019L – Coolants and Water Soluble Oil <input checked="" type="checkbox"/> 021L – Other Oil <input type="checkbox"/> 029L – Other Wastes <input type="checkbox"/> _____
Proper Shipping Name:	Non-Hazardous Waste
Method of Shipment:	<input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Drum <input type="checkbox"/> Tote
Additional Handling / Comments:	
Waste Receipt Classification:	<input type="checkbox"/> Organic Waste <input type="checkbox"/> Oily Waste <input type="checkbox"/> Metal Derived Waste

Section 7 Terms and Conditions of Waste Service

1. Waste Disposal. Subject to the terms and conditions contained herein and those in the Proposal and Approval Notification Letter, Advanced Resource Recovery, (hereinafter "ARR" or "Company"), and the Service Provider and/or Generator, (hereinafter collectively "Customer"), agree to be legally bound hereby and that ARR agrees to accept at its facility (the "Facility") Industrial Waste (hereinafter referred to as "Industrial Waste" or "Waste") delivered by Customer, and which is acceptable to ARR as herein provided.

2. The Agreement. The entire agreement of the parties for the disposal of Industrial Waste (the "Agreement") shall consist of these terms and conditions, and any application, permit, approval or other documents provided by the Company that may be applicable to such Waste. Waste accepted at the Facility by Company will constitute Customer's acceptance of the Proposal and Approval Notification's terms and conditions as well as the terms and conditions herein. Each Waste Approval's terms and conditions will supersede the terms and conditions of any prior Agreement between the parties.

3. Waste Accepted at Facility. Customer warrants that the Waste described in the Waste Characterization Profile that is delivered to Company at its Facility hereunder will not contain any quantity of hazardous materials or substances, radioactive materials or substances or toxic wastes

or substances as defined by applicable federal, state and/or local laws or regulations. Any waste which does not meet this requirement shall hereinafter be referred to as "Unacceptable Waste." The Customer shall in all matters relating to the collection, transportation and disposal of the Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same. The word "Facility" shall mean the Company's disposal facility located at 27140 Princeton Ave., Inkster, MI 48141.

4. Industrial Wastes. Customer warrants that the Waste delivered to Company hereunder will not contain any waste that is not specifically described on the Waste Characterization Profile which is incorporated herein and which is subsequently approved by the Company and will meet the material description as set forth in the application and otherwise in all significant respects. The parties may incorporate additional Industrial Waste as part of this Agreement if prior to delivery of such Waste to Company, Customer has provided a Waste Characterization Profile Application for such Waste and Company has approved disposal of such Waste within the limitations and conditions contained in Company's written notice of approval of Industrial Waste disposal. Title to all Waste handed or disposed of by Company shall at all times remain with Customer.

5. Rights of Refusal/Rejection. Company has the right to refuse or reject after acceptance any load of wastes delivered to the facility if the Company believes the Customer has breached (or is breaching) its warranties or agreements hereunder. If Customer delivers wastes in breach of any warranty or agreements herein, Company may in its sole discretion, either remove and dispose of that waste and charge Customer for the costs or require Customer to promptly remove the waste.

6. Charges and Payment. Customer agrees to pay the Company's rates as written in the Proposal and Approval Notification Letter, which may be modified from time to time upon thirty (30) days written notice to the Customer. Payment shall be made by Customer within thirty (30) days after receipt of invoice from Company. In the event that any amount is overdue, the Company may terminate this Agreement. Customer agrees to pay service charge of 1.5% per month, or the maximum interest rate permitted by law whichever is less.

7. Term. This Agreement shall continue in effect until terminated by Company or Customer, with or without cause, upon prior notice by either party and representations and warranties regarding the waste delivered and the indemnities set forth herein shall survive termination of this Agreement.

8. Indemnity. Customer agrees to indemnify, save harmless, and defend Company, its Corporate affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto (including costs of defense, settlement, and reasonable attorney's fees), which it may hereafter incur, become responsible for, or pay out as a result of death or bodily injuries to any person, destruction or damage to any property, contamination of or adverse effects on the environment, or any violation of governmental laws, regulations, or orders caused, in whole or in part by the Customer's breach of any warranty, term or provision of this Agreement, or any act, omission, willful misconduct or negligence of the Customer, its employees, or subcontractors in the performance of this Agreement.

9. Default. The occurrence of any of the following events shall also constitute an event of default by the Customer and shall give the Company the right to immediately terminate this Agreement. (a) A petition for reorganization or bankruptcy filed by or against the Customer; (b) Failure by Customer to pay any amount due to Company (c) Any breach by Customer of any of its obligations pursuant to the Agreement. The parties covenant and agree that the Company's removal and acceptance of the Customer's Waste constitutes work on and an improvement to the Customer's real property. Accordingly, Customer grants to Company the right to file any and all documents permitted by law or otherwise on Customer's real property to secure the monies owed to Company by Customer for services performed.

10. Attorneys' Fees. In the event of a breach by Customer of the Agreement, the Customer shall pay all attorneys' fee, collection fees and costs of Company incident to any action brought to enforce the Agreement.

11. Assignment. Customer may not assign, transfer or otherwise vest in any other company, entity or person, any of its rights or obligations under the Agreement without the prior written consent of Company.

12. Miscellaneous. The Agreement shall be governed by and constructed in accordance with the laws of the state of Michigan in which the Facility is located. The price and terms of this proposal are confidential and are not to be disclosed to any other persons or entities. Customer agrees to take all precautions to insure that its officers, employees and agents maintain the confidentiality of this information and do not disclose the price and terms of this proposal. Service Provider is defined as any company working on behalf of a Generator.

13. Notices. All notices herein shall be considered as having been given upon being placed in the mail, certified, postage prepaid, addressed to the Company or Customer at the address set forth in the Waste Characterization Profile.

SECTION 8: GENERATOR CERTIFICATION and WASTE SERVICE AGREEMENT

I certify that I am authorized to sign below and all information is complete, factual (including attached information), is an accurate representation of the known and suspected hazards and of waste generator regulations pertaining to the waste described herein and agree to the terms and conditions of waste services in Section 7. Based on our knowledge of the process generating this specific waste stream, the material is not classified as a TSCA regulated waste.



Used Oil Certification

Advanced Resource Recovery, L.L.C. is required under Federal Law 40CFR 279.53 to keep on file the following information pertaining to used oil waste streams.

Generator Name

EPA ID#

Contact Person

Please mark with an "X" in the appropriate box below, the statement best describing your used oil waste stream:

- The oil in our waste stream is below 1,000 ppm total halogens and therefore is not regulated. This oil also does not exceed regulated levels of individual halogenated constituents including PCB's. *(If this box is marked, please attach the PCB analysis for this waste stream.)*
- The oil in our waste stream exceeds 1,000 ppm halogens and is exempt from hazardous presumption because the process uses petroleum products containing non-hazardous chlorinated substances. *(If this box is marked, please attach either the Material Safety Data Sheet (MSDS) demonstrating chlorinated paraffin content or a F-Series Solvent-Scan demonstrating the oil has not been mixed with chlorinated solvents.)*

The undersigned hereby certifies the marked paragraph above and any attached information is true and accurate, that the used oil stream has not been mixed with PCB's and PCB's do not exist at the generator's facility. The undersigned has executed this Certification with full and complete power and authority to do so, as of the day and year written below.

Generator:

Advanced Resource Recovery, L.L.C.
27140 Princeton Ave. PO Box 330 Inkster, MI 48141
tel. (313) 724-8600 fax (313) 724-8612

ENVIRONMENTAL GEOTECHNOLOGIES, LLC
 28470 Orin Dr, Royalia, MI 48174. Telephone 734.946 1000. Fax 734.946 1002

Generator Waste Profile
Profile # 01130

GENERATOR

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Facility: _____ Phone: () _____ Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Spar Chemicals (Tanks 1, 2)

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

Generator Flooring Tanks Solution

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
2. Regulated by RCRA? Yes No (PDEs, etc.)
3. List ALL Applicable Waste Codes: D002 D005

PHYSICAL CHARACTERISTICS OF WASTE

Color <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other (See text)	Suspended Solids <input checked="" type="checkbox"/> 0-1% <input type="checkbox"/> 2-5% <input type="checkbox"/> 1-3% <input type="checkbox"/> >5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 <input checked="" type="checkbox"/> Exact / Other (See text)	<i>Accepted</i> <u>05/10/17</u>
--	---	---	--	------------------------------------

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: _____ PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Water</u>	<u>99</u>	<u>40</u>			
<u>Spar Chemicals (See text)</u>	<u>1</u>	<u>0</u>			
<u>Solvents</u>	<u>0</u>	<u>0</u>			
<u>Solids</u>	<u>0</u>	<u>0</u>			

See Attached Analyses

15-50-00-00

Metals: Indicate if this waste contains any of the following metals, if Generator knowledge is available back up

Lab Analysis Generator Knowledge

TOLP TOTAL

	Not Present	Concentration	Not Present	Concentration	Asbestos (As)	DD04	4	6	ppm	ppm
PCB	<input type="checkbox"/>	ppm	Arsenic (As)	<input type="checkbox"/>	ppm	4400			ppm	ppm
Dioxins	<input type="checkbox"/>	ppm	Barium (Ba)	<input type="checkbox"/>	ppm				ppm	ppm
Cyanides Reactive	<input type="checkbox"/>	ppm	Cadmium (Cd)	<input type="checkbox"/>	ppm				ppm	ppm
Cyanides Total	<input type="checkbox"/>	ppm	Chromium (Cr)	<input type="checkbox"/>	ppm				ppm	ppm
Sulfides Reactive	<input type="checkbox"/>	ppm	Lead (Pb)	<input type="checkbox"/>	ppm				ppm	ppm
Sulfides Total	<input type="checkbox"/>	ppm	Mercury (Hg)	<input type="checkbox"/>	ppm				ppm	ppm
			Selenium (Se)	<input type="checkbox"/>	ppm				ppm	ppm
			Silver (Ag)	<input type="checkbox"/>	ppm				ppm	ppm

TOLP Organics Data - Data above regulatory limits Present Not Present

IS WASTE ANY OF THE FOLLOWING?

At least One Box Must Be Checked.

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds _____
- DOT Shipping Name 66, UN3216, Waste Resin Liquid, base, inorganic solids, (Sodium Hydroxide, Calcium) Hazard Class 9 UN3216
- PG II EPC 154 Hazardous Constituents for "h.o.s." Calcium, sodium hydroxide
- Method of shipment: Bulk Tanker Van truck Rail Car Drums Totes
- Number of Units to Ship Now: _____ B. Anticipated Volume / Units per Year: 240000 or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: Please collect a representative quantity 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 I. 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.

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

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, L.L.C.

RECEIVING & APPROVAL FORM

Date	5/16	S 1 10 1 17
Receiving ID#		B
Manifest#	Line:	
Land Ban Cert Included	Yes	No
[REDACTED]		
Time in		
Time out		
Received by		
Sampled by		

Compatible? (RT# 5)	<input checked="" type="radio"/> Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	>1400F	Magnesium	
pH (S.U.)	12.7	Sodium Chloride	
Cyanides? (mg/L)	0.30	Bicarbonate	
Sulfides? (ppm)	0.200	Carbonate	
Specific Gravity	1.08	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	<input checked="" type="radio"/> Yes No	Sulfate	
Oil In Sample	Yes <input checked="" type="radio"/> No		
Temperature	70 °F		
Conductivity	70		
% Solids	7%		
Turbidity	Yes <input checked="" type="radio"/> No		
Color (visual)	pale yellow		
TSS (%)	0.1		
Radiation Screen (as needed)	negative		
Lab Signature	[Signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM


Date	5 / 10 / 17
Receiving ID#	B
Manifest#	Line:
Land Bag Cert included	Yes No
[REDACTED]	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

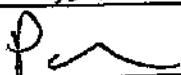
	Yes	No	Barium
Compatible? (RT# 5)	<input checked="" type="radio"/>		Calcium
PCBs (ppm)(Oily Waste Only)?	N/A		Total Iron
TOC (ppm)(CC Waste Only)?	N/A		Magnesium
Flash Point (°F)	> 140°F		Sodium Chloride
pH (S.U.)	12.5		Bicarbonate
Cyanides? (mg/L)	230		Carbonate
Sulfides? (ppm)	200		TDS
Specific Gravity	1.08		Resistivity
Physical Description	<input checked="" type="radio"/>	<input type="radio"/>	Sulfate
Stream Consistency	Yes	<input checked="" type="radio"/>	
Oil in Sample	70°F		
Temperature	70		
Conductivity	570		
% Solids	Yes	No	
Turbidity	bright yellow		
Color (visual)	LI		
TSS (%)	negate		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

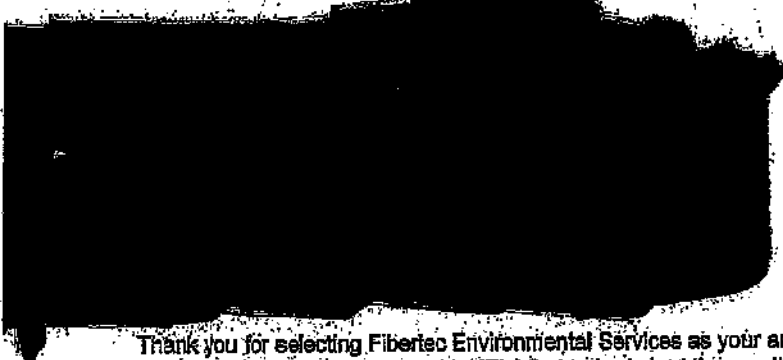
Date	5/16	5 / 16 / 17
Receiving ID#		B
Manifest#	Line:	
Land Ben. Cert. included	Yes	No
		
Transporter		
Time in		
Time out		
Received by		
Sampled by		

Compatible? (RT# 5)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	>1400F	Magnesium	
pH (S.U.)	12.7	Sodium Chloride	
Cyanides? (mg/L)	230	Bicarbonate	
Sulfides? (ppm)	2200	Carbonate	
Specific Gravity	1.08	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	<input checked="" type="radio"/> Yes <input type="radio"/> No	Sulfate	
Oil in Sample	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Temperature	70 °F		
Conductivity	70		
% Solids	7%		
Turbidity	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Color (visual)	pale yellow		
TSS (%)	21		
Radiation Screen (as needed)	negative		
Lab Signature			



Thursday, March 19, 2015

Fibertec Project Number: 66849
Project Identification: Cadmium/CN Waste Solution /
Submittal Date: 03/12/2015



Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DP8/arp

Enclosures

1914 Holloway Drive
17768 E. Grand River
8880 S. Mackinaw Trail

Holt, MI 48842
Brighton, MI 48116
Cadillac, MI 49601

T: (517) 699-0345
T: (810) 220-3300
T: (231) 775-8368

F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584



Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable * : Parameter not included in NELAC Scope of Analysis.

Cyanide, Total (ASTM D7811-08) Aliquot ID: 68849-001 Matrix: Aqueous

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Int.
						P. Date	P. Batch	A. Date	A. Batch	

pH, Electrometric (EPA 9040C) Aliquot ID: 68849-001 Matrix: Aqueous

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Int.
						P. Date	P. Batch	A. Date	A. Batch	

Reactive Cyanide (Waste Characterization) (EPA HCN) Aliquot ID: 68849-001 Matrix: Aqueous

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Int.
						P. Date	P. Batch	A. Date	A. Batch	

1814 Holloway Drive
11768 E. Grand River
8660 S. Mackhew Trail

Holt, MI 48842
Brighton, MI 48116
Cadillac, MI 48601

T: (617) 689-0345
T: (810) 220-3300
T: (231) 775-8368

F: (617) 689-0388
F: (810) 220-3311
F: (231) 775-8584

Definitions/Qualifiers:

- A: Spike recovery or precision unusable due to dilution.
- B: The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- *: Value reported is outside QA limits

Exception Summary:

- E : This flag identifies compounds whose response exceed the response of the highest standard in the initial calibration range of the instrument for that specific analysis.



Accreditation Number(s):

T104704518-16-3 (TX)

1914 Holloway Drive
11766 E. Grand River
8660 S. Meckinaw Trail

Holt, MI 48842
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Analytical Laboratory
1714 Holloway Drive
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Analytical Laboratory
8440 S. Mackbeew Trail
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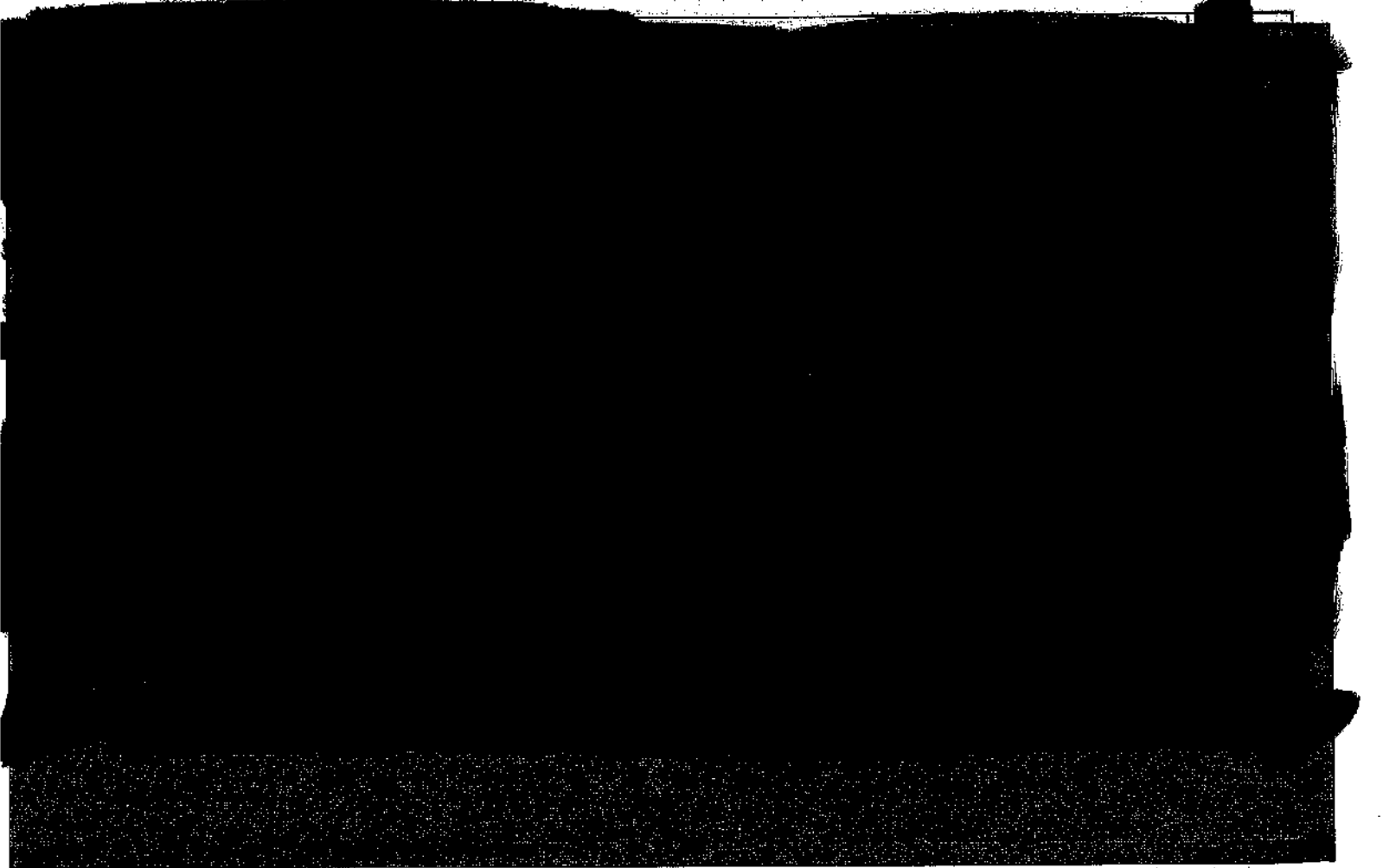
Industrial Hygiene Services, Inc.
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Fax: 517 699 0382
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Geoprobe
11786 E. Grand River
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Chain of Custody #

134397

PAGE 1 of 1





Environmental GEO-Technologies, LLC

May 11, 2017

**United States Environmental Protection Agency
Region 5, WU-16J
77 West Jackson Blvd.
Chicago, Illinois 60604-3590
ATTN: UIC Branch, DI Section**

Re: Written Report, EGT Injection Parameters Exceedance, Well #1 Annulus Pressure and Annulus/Tubing Differential (in conformance with MI-163-1W-C010, Part III.A, page 1 of 3)

Ladies & Gentlemen:

Environmental Geo-Technologies, LLC ("EGT") is writing this report to inform you that two injection parameters, Annulus Pressure and Annulus/Tubing Differential were both very briefly exceeded simultaneously on May 8, 2017.


EGT experienced a valve actuator failure on the annulus system of injection Well #1, causing an exceedance of the minimum annulus pressure, and, the minimum differential pressure simultaneously. This actuator failure and pressure exceedances occurred on May 8th at 12:15 am where the valve automatically opened but did not close as designed. This caused all pressure to bleed back to the holding tank. There was an EGT Deep Well Operator on site when this occurred and he removed the actuator and manually operated the valve to restore pressure to the system by 12:29 am. This event was called into Mr. Allan Batka with a voice mail at about 3 pm the same day (05.08.17).

This written report is hereby timely submitted [within five (5) working days of the permittee becoming aware of the circumstance(s)] and in conformance with EGT's UIC Injection Permit # MI-163-1W-C010, Part 1.E.12.d.3 for the occurrence that occurred on 05.08.17 that was verbally reported to Mr. Allan Batka on 05.08.17.

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.
Vice President

cc: J. Frost (EGT), P. Sullivan (EGT)

rjp051117/EGTEPAWell#1WrittenReport051117