

June 30, 2016

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 thirty-first 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 also hereby timely submits its thirteenth Injection Fluid Analyses (for May, 2016) 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 in April.

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), T. Athans (EGT), P.Sullivan (EGT)

att.

rjp063016/EGTEPAMonthlyReport-May, 2016

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2016CURRENT REPORTING MONTH MAYDate (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	249,660	0	249,660
Since facility first injected			5,803,768
MI-163-1W-C011, Well #2-12			
Current Month	373,779	0	373,779
Since facility first injected			2,598,969
		Lifetime Combined	8,402,737

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 30

30 lifetime number of months of injection × 43,830 minutes/month
 = 1,314,900 minutes of injection

Lifetime combined injected volume 8,402,737 ÷ 1,314,900 minutes of injection
 = 6.4 gpm average injection rate

WELL 1 DATA

Circle Chart Index

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

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen – Well 1 Annulus Pressure

Channel #3

Green Pen – Well 1 Flow Rate

Channel #4

Black Pen – Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen – Well 2 Injection Pressure

Channel #2

Red Pen – Well 2 Annulus Pressure

Channel #3

Green Pen – Well 2 Flow Rate

Channel #4

Black Pen – Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen – Injection pH Well 1 & 2

Channel #2

Red Pen – Well 1 Monthly Volume

Channel #3

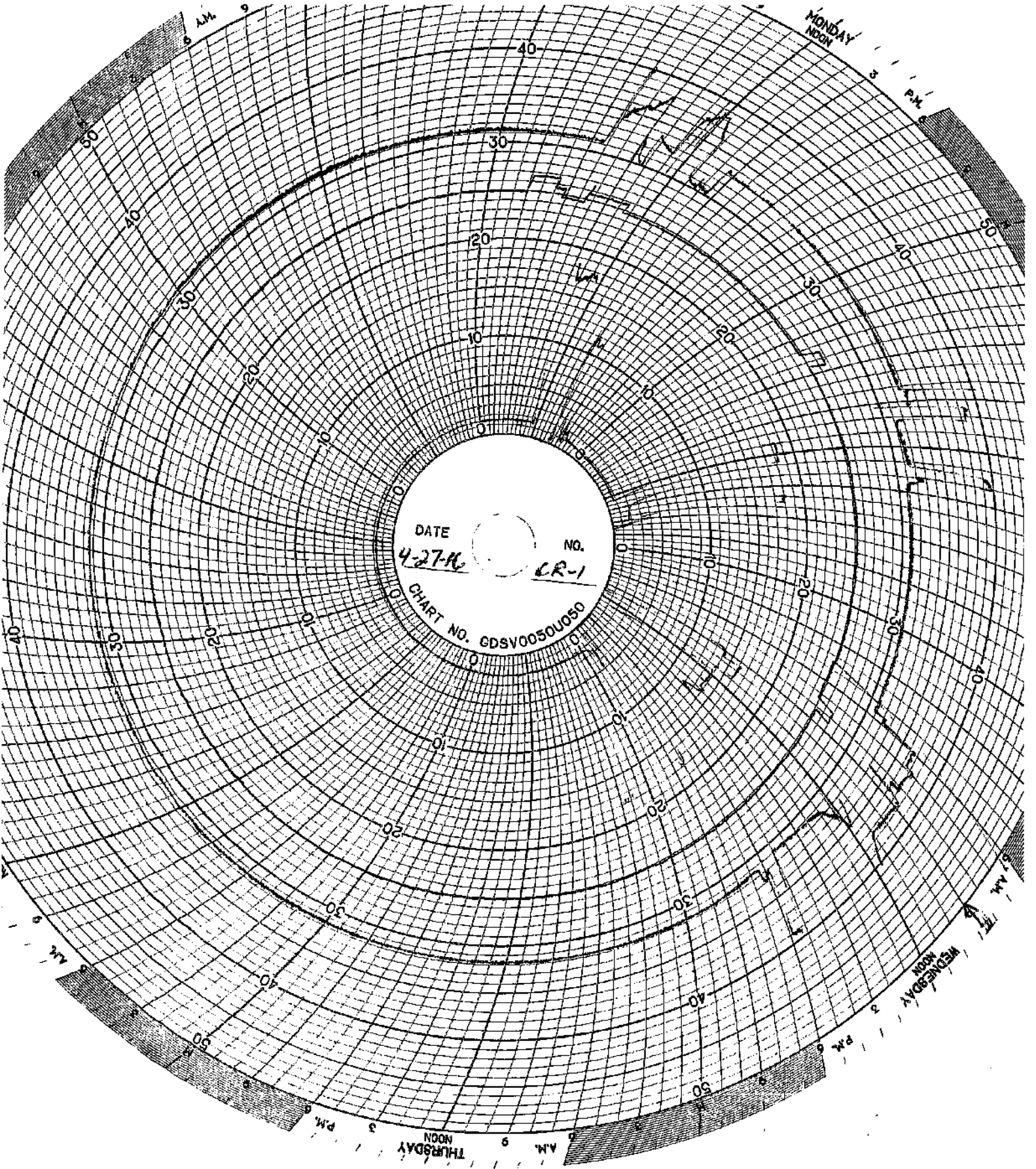
Green Pen – Well 2 Monthly Volume

Channel #4

Black Pen - Temperature

WELL 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)
5/1/2016	50.2	52.1	25.1	25.4	938.2	939.7	-0.5	-0.4	0.5	1.7	887.4	888.4
5/2/2016	-9.8	559.1	24.9	27.0	899.9	1201.2	-1.0	0.7	21.8	192.2	483.8	1100.1
5/3/2016	-8.9	554.0	24.9	27.0	876.6	1200.0	-0.9	-0.3	13.4	156.6	432.5	957.5
5/4/2016	-9.0	540.9	25.2	25.5	913.8	1175.4	-0.9	0.0	22.3	158.4	608.9	930.4
5/5/2016	19.1	593.6	25.0	25.6	925.0	1190.0	-0.8	-0.2	17.6	156.5	575.9	914.0
5/6/2016	-10.1	588.8	25.0	27.4	829.1	1200.1	-0.9	0.1	33.2	176.5	372.0	987.5
5/7/2016	-9.9	-9.9	25.1	25.4	940.4	944.0	0.1	0.2	0.0	0.0	950.3	953.8
5/8/2016	-9.9	-9.9	25.0	25.4	939.5	942.0	0.2	0.3	0.0	0.0	949.4	951.9
5/9/2016	-10.0	525.6	25.0	27.3	883.0	1202.2	0.3	0.7	13.4	202.5	424.2	1106.3
5/10/2016	-10.0	354.4	24.7	27.0	899.1	1200.1	0.0	0.8	14.9	241.4	620.7	1118.1
5/11/2016	-10.0	567.8	24.7	27.4	871.0	1200.1	-5.6	8.6	23.5	204.4	408.1	1047.9
5/12/2016	25.1	547.8	25.3	25.7	927.2	1184.5	-0.6	8.6	5.5	145.9	611.9	905.9
5/13/2016	21.5	25.4	25.4	25.8	918.3	927.2	-0.6	0.6	2.7	6.9	896.3	902.2
5/14/2016	19.7	21.8	25.4	25.7	914.1	918.4	0.6	0.7	1.3	3.0	893.8	896.9
5/15/2016	18.6	20.3	25.2	25.6	911.2	914.1	0.7	0.7	0.8	2.0	892.0	894.4
5/16/2016	-1.8	629.6	25.0	27.1	866.7	1199.9	0.0	1.0	7.8	249.7	376.4	1000.2
5/17/2016	-1.3	-0.4	25.0	25.4	919.3	924.2	-0.2	0.4	0.0	0.0	920.1	925.2
5/18/2016	-1.3	-0.3	25.1	25.5	915.5	919.6	0.3	0.5	0.0	0.0	916.2	920.7
5/19/2016	-1.3	-0.4	25.1	25.5	914.0	916.5	0.0	0.6	0.0	0.0	914.5	917.6
5/20/2016	-1.3	-0.3	25.1	25.5	912.4	915.0	-0.4	0.3	0.0	0.0	913.0	916.2
5/21/2016	-1.3	-0.4	25.0	25.6	909.9	912.4	-0.4	-0.4	0.0	0.0	910.4	913.6
5/22/2016	-1.3	-0.4	24.8	25.6	907.9	909.9	-0.4	-0.2	0.0	0.0	908.5	911.0
5/23/2016	-1.4	-0.3	25.1	25.7	906.6	909.9	-0.5	1.0	0.0	0.0	907.1	911.2
5/24/2016	-1.5	-0.5	25.2	25.7	906.5	910.4	0.0	0.4	0.0	0.0	907.1	911.7
5/25/2016	-1.5	-0.5	25.0	25.6	906.1	909.2	0.1	0.7	0.0	0.0	906.7	910.7
5/26/2016	-1.5	-0.6	25.0	25.1	905.1	908.7	0.1	0.4	0.0	0.0	905.8	910.2
5/27/2016	-1.5	-0.6	25.1	25.1	904.3	907.2	0.2	0.6	0.0	37.8	905.2	908.7
5/28/2016	-1.5	-0.6	25.1	25.7	901.3	904.4	-0.3	0.7	0.0	0.0	902.2	905.6
5/29/2016	-1.5	-0.5	24.7	25.7	900.0	1005.8	-0.4	0.5	0.0	0.0	900.8	1006.7
5/30/2016	-1.5	-0.5	24.6	25.0	993.0	997.8	-0.3	0.6	0.0	0.0	993.7	999.0
5/31/2016	-1.4	-0.5	24.6	25.0	989.8	993.1	-0.3	0.9	0.0	0.0	990.6	994.3



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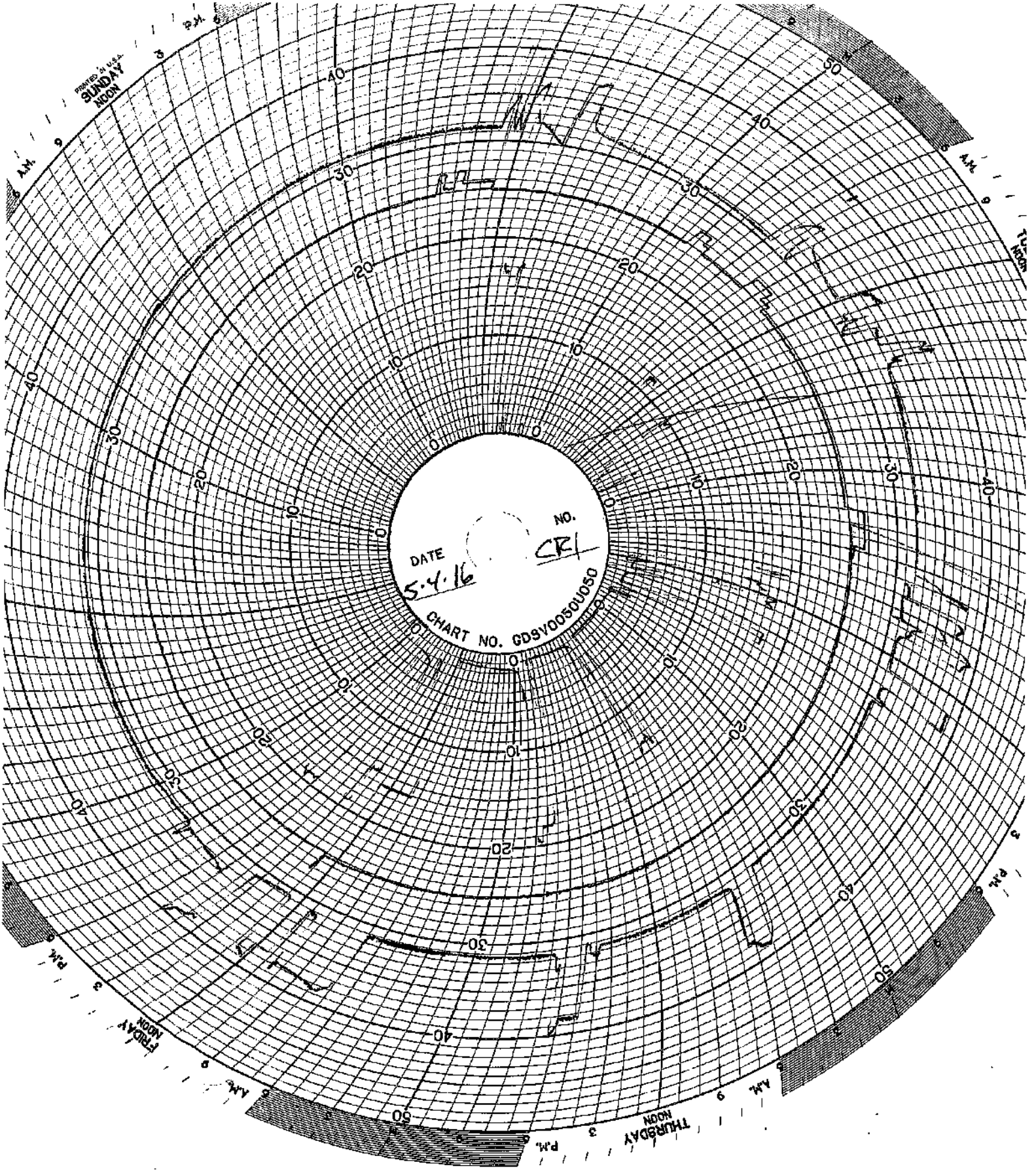
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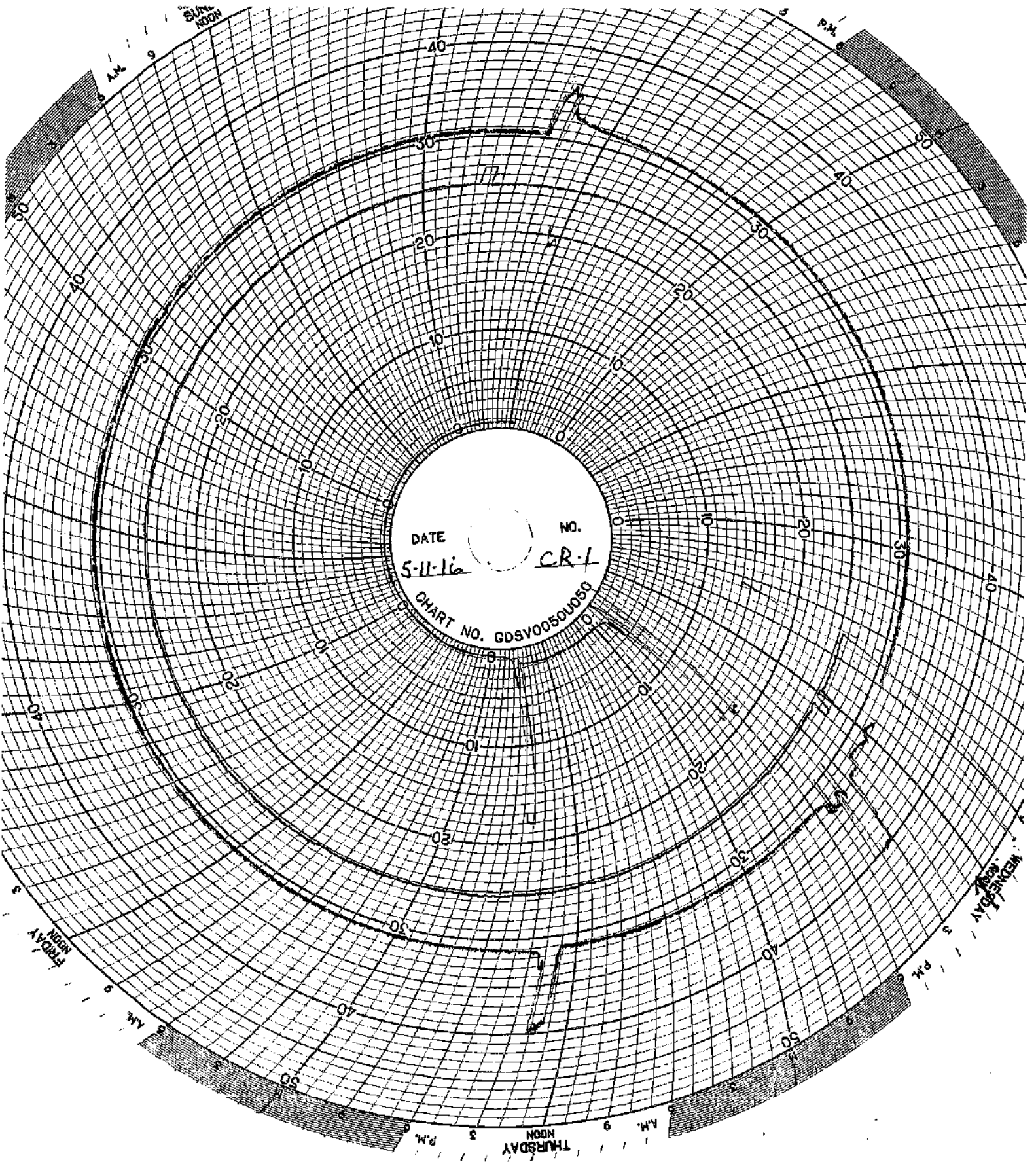
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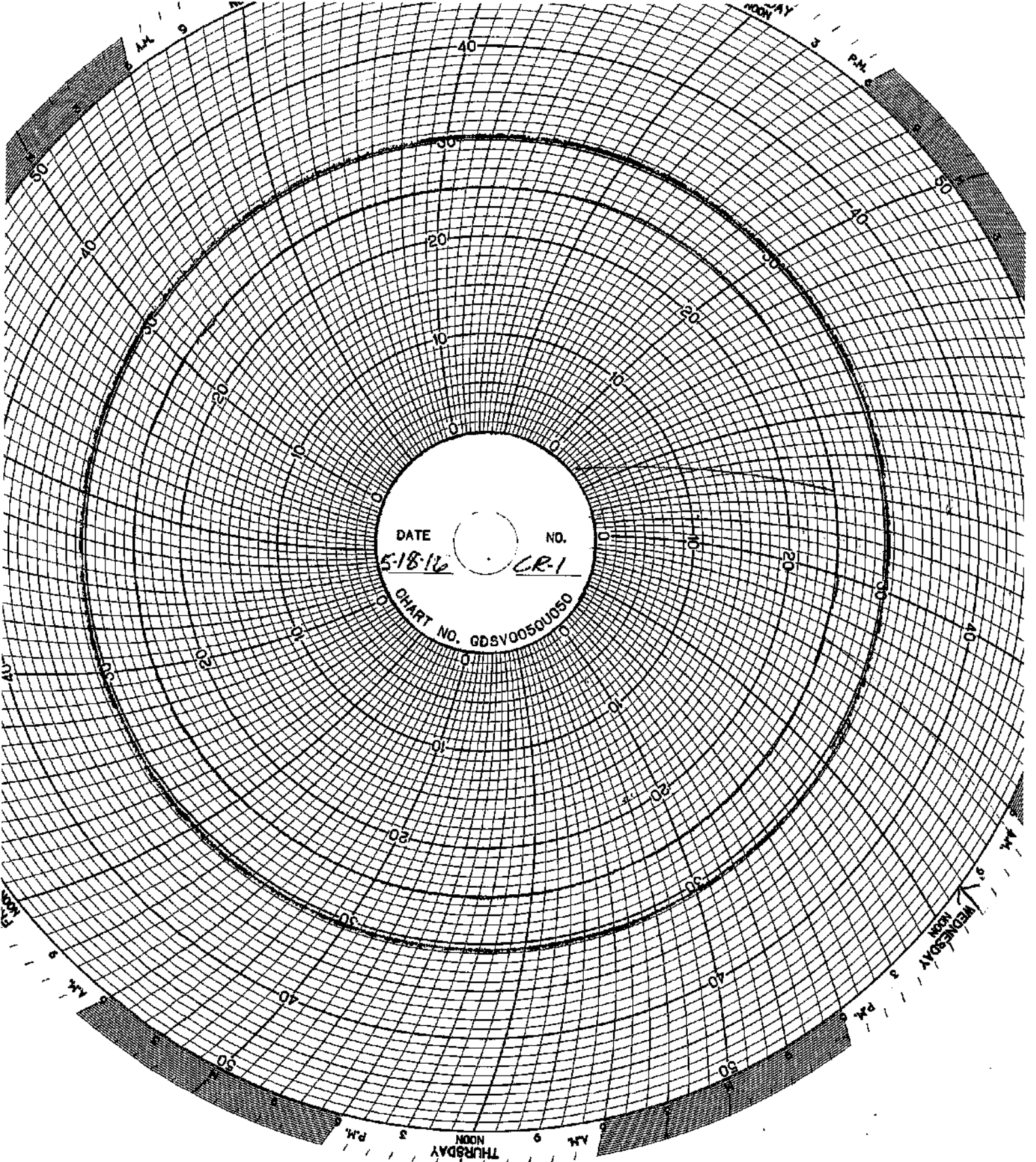
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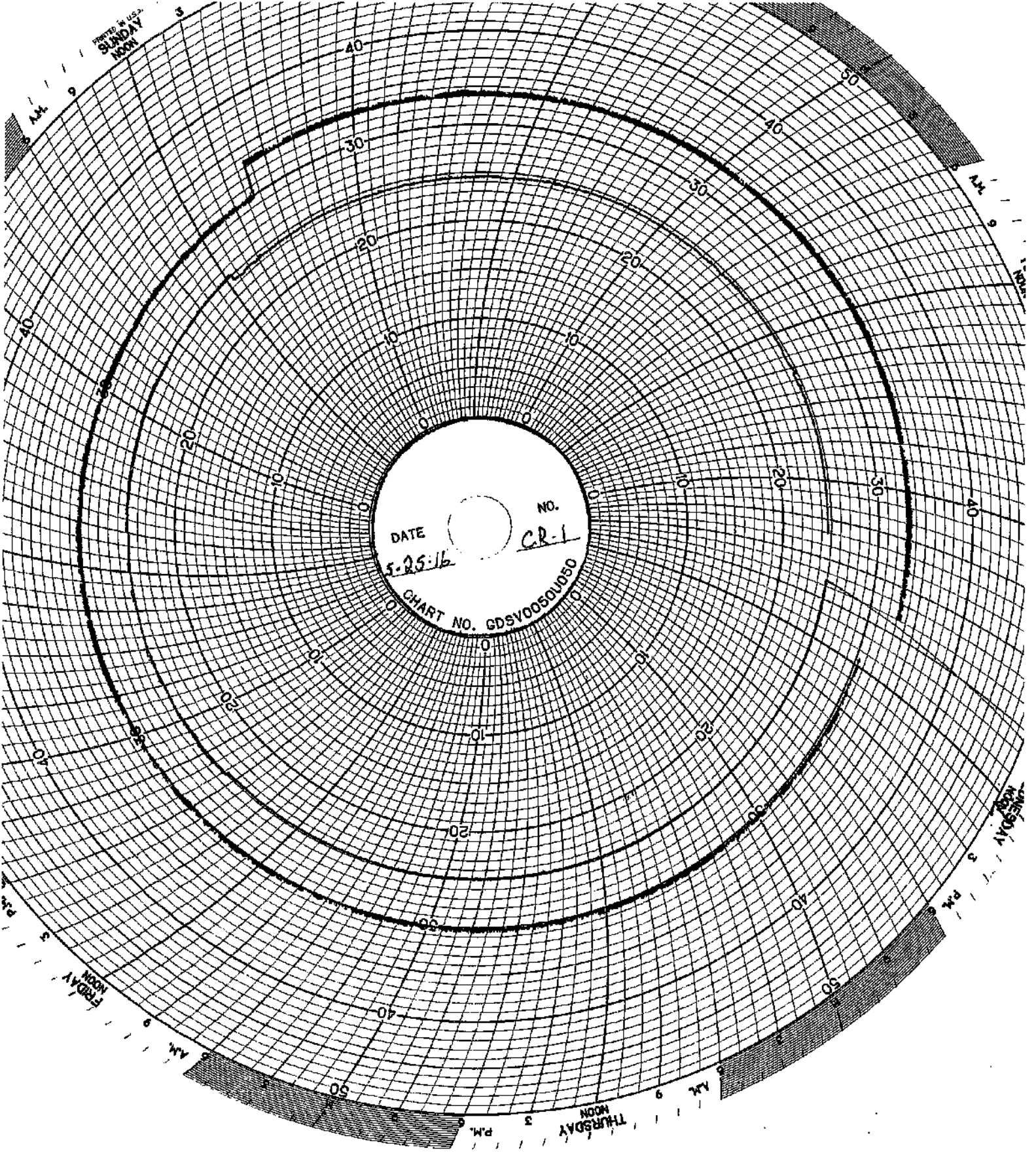
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PRINTED IN U.S.A.
SUNDAY
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DATE

5-25-16

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CR-1

CHART NO. GDSY0050UD50

FRIDAY
NOON

THURSDAY
NOON

MONDAY
3 AM

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 Differentail Pressure (PSIG)	Max Differentail Pressure (PSIG)
5/1/2016	48.3	49.7	17.0	17.1	387.9	394.7	-0.5	-0.4	0.0	0.0	339.5	345.1
5/2/2016	-10.0	560.5	14.2	17.1	386.2	1201.8	-1.0	0.7	11.5	99.4	338.1	1046.4
5/3/2016	-8.7	554.8	14.2	18.6	348.3	1184.7	-0.9	-0.3	6.6	98.4	328.9	945.7
5/4/2016	-8.7	542.3	14.2	18.6	300.0	1100.3	-0.9	0.0	11.5	97.4	285.1	842.1
5/5/2016	16.6	594.0	14.3	17.9	323.2	1129.1	-0.8	-0.2	9.2	97.7	295.3	889.0
5/6/2016	39.4	46.2	16.7	17.4	332.4	357.2	-0.9	0.1	0.0	11.6	288.6	312.3
5/7/2016	37.4	43.7	16.4	17.3	325.4	333.0	0.1	0.2	0.0	0.5	288.0	289.3
5/8/2016	35.0	37.5	16.4	17.2	322.3	326.1	0.2	0.3	0.0	0.0	287.2	288.7
5/9/2016	-10.0	528.6	13.9	19.5	276.0	1202.1	0.3	0.7	44.4	400.0	285.5	1022.9
5/10/2016	-10.0	355.7	13.9	19.1	300.1	1200.1	0.0	0.8	18.7	186.1	310.0	1007.9
5/11/2016	-10.0	570.7	14.3	18.5	267.5	1198.1	-5.6	8.6	15.3	126.2	267.4	1001.3
5/12/2016	-1.9	549.2	13.8	17.2	300.0	1192.3	-0.6	8.6	2.5	90.5	155.7	978.8
5/13/2016	-1.9	-1.7	13.1	18.0	87.8	1006.1	-0.6	0.6	0.0	0.0	89.6	1007.9
5/14/2016	-1.9	-1.7	16.0	16.1	340.0	348.3	0.6	0.7	0.0	0.0	341.7	350.1
5/15/2016	-1.9	-1.7	16.0	16.1	335.2	340.5	0.7	0.7	0.0	0.0	336.9	342.3
5/16/2016	-2.1	195.3	14.9	17.0	291.7	654.4	0.0	1.0	0.2	48.6	183.3	562.6
5/17/2016	-10.0	750.8	14.1	17.6	300.1	1178.9	-0.2	0.4	16.0	168.7	282.6	903.2
5/18/2016	-10.0	-10.0	15.4	16.3	343.7	380.4	0.3	0.5	0.0	0.0	353.6	390.4
5/19/2016	-10.0	666.1	14.2	17.1	301.8	1162.9	0.0	0.6	11.5	185.5	311.2	898.8
5/20/2016	-9.9	685.6	13.9	17.0	314.7	1147.5	-0.4	0.3	12.7	155.3	285.8	832.8
5/21/2016	-0.3	1.7	15.6	16.5	300.2	408.5	-0.4	-0.4	0.0	0.0	299.7	407.1
5/22/2016	-1.0	-0.2	15.3	16.2	385.2	393.1	-0.4	-0.2	0.0	0.0	386.1	393.4
5/23/2016	-4.6	692.2	13.8	15.7	383.2	1203.6	-0.5	1.0	22.0	155.7	298.3	949.4
5/24/2016	-10.0	737.0	13.8	16.7	387.9	1199.9	0.0	0.4	26.9	172.1	300.2	920.5
5/25/2016	-10.0	718.2	14.1	17.7	299.9	1177.6	0.1	0.7	25.9	168.4	157.9	875.2
5/26/2016	-10.0	694.9	13.5	17.8	299.9	1199.8	0.1	0.4	58.4	392.9	284.0	878.9
5/27/2016	-10.0	639.3	14.0	18.2	299.8	1199.7	0.2	0.6	19.4	167.3	202.9	832.2
5/28/2016	11.4	23.1	15.4	16.3	299.8	407.3	-0.3	0.7	0.0	0.0	282.3	385.2
5/29/2016	9.4	11.5	15.3	16.2	341.6	353.0	-0.4	0.5	0.0	0.0	332.2	341.6
5/30/2016	8.2	9.5	15.3	16.2	335.9	342.2	-0.3	0.6	0.0	0.0	327.6	332.8
5/31/2016	-1.5	620.9	13.7	16.7	300.0	1200.0	-0.3	0.9	11.3	147.3	234.5	795.7

Circle Chart Index

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

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen – Well 1 Annulus Pressure

Channel #3

Green Pen – Well 1 Flow Rate

Channel #4

Black Pen – Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen – Well 2 Injection Pressure

Channel #2

Red Pen – Well 2 Annulus Pressure

Channel #3

Green Pen – Well 2 Flow Rate

Channel #4

Black Pen – Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen – Injection pH Well 1 & 2

Channel #2

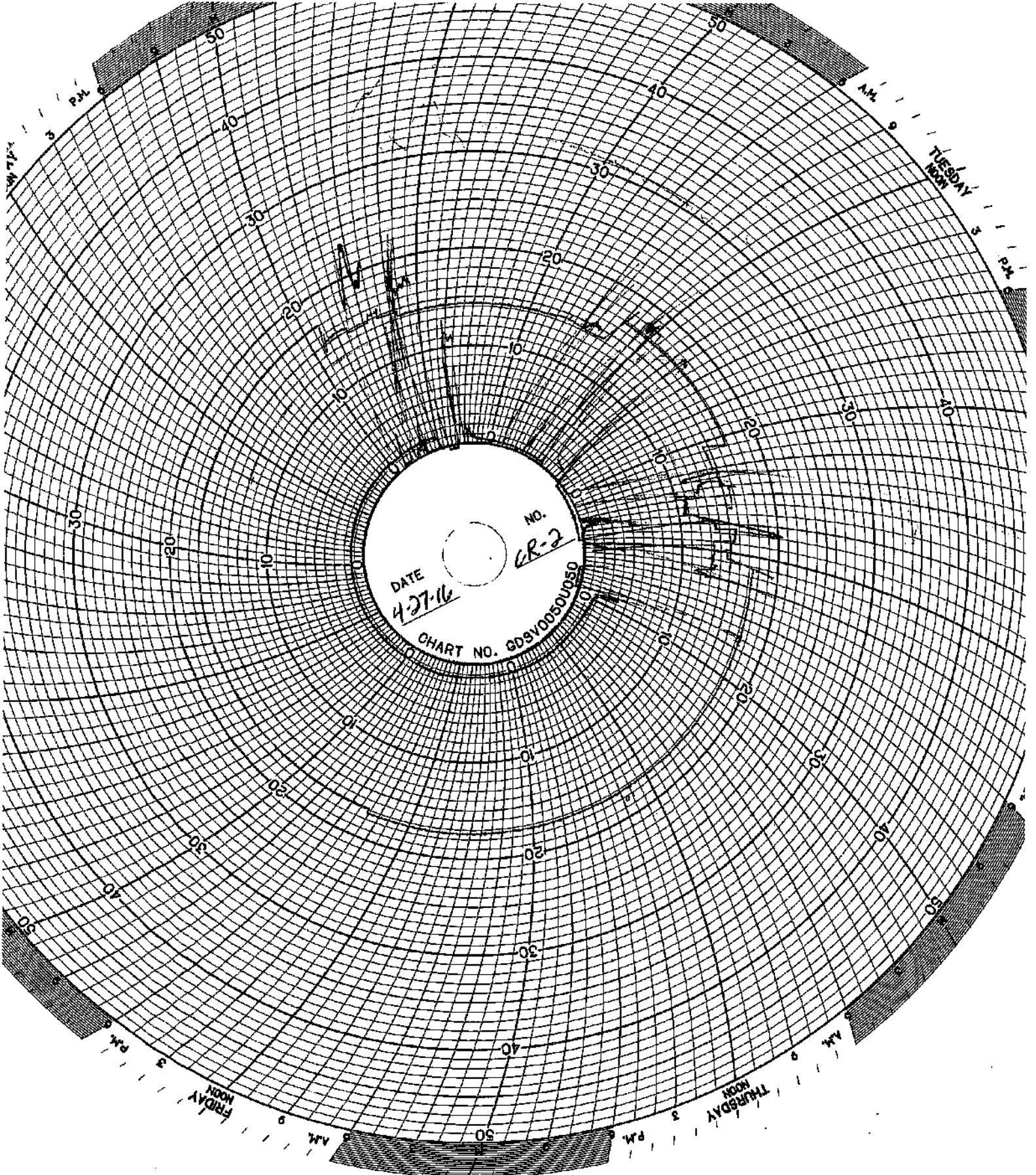
Red Pen – Well 1 Monthly Volume

Channel #3

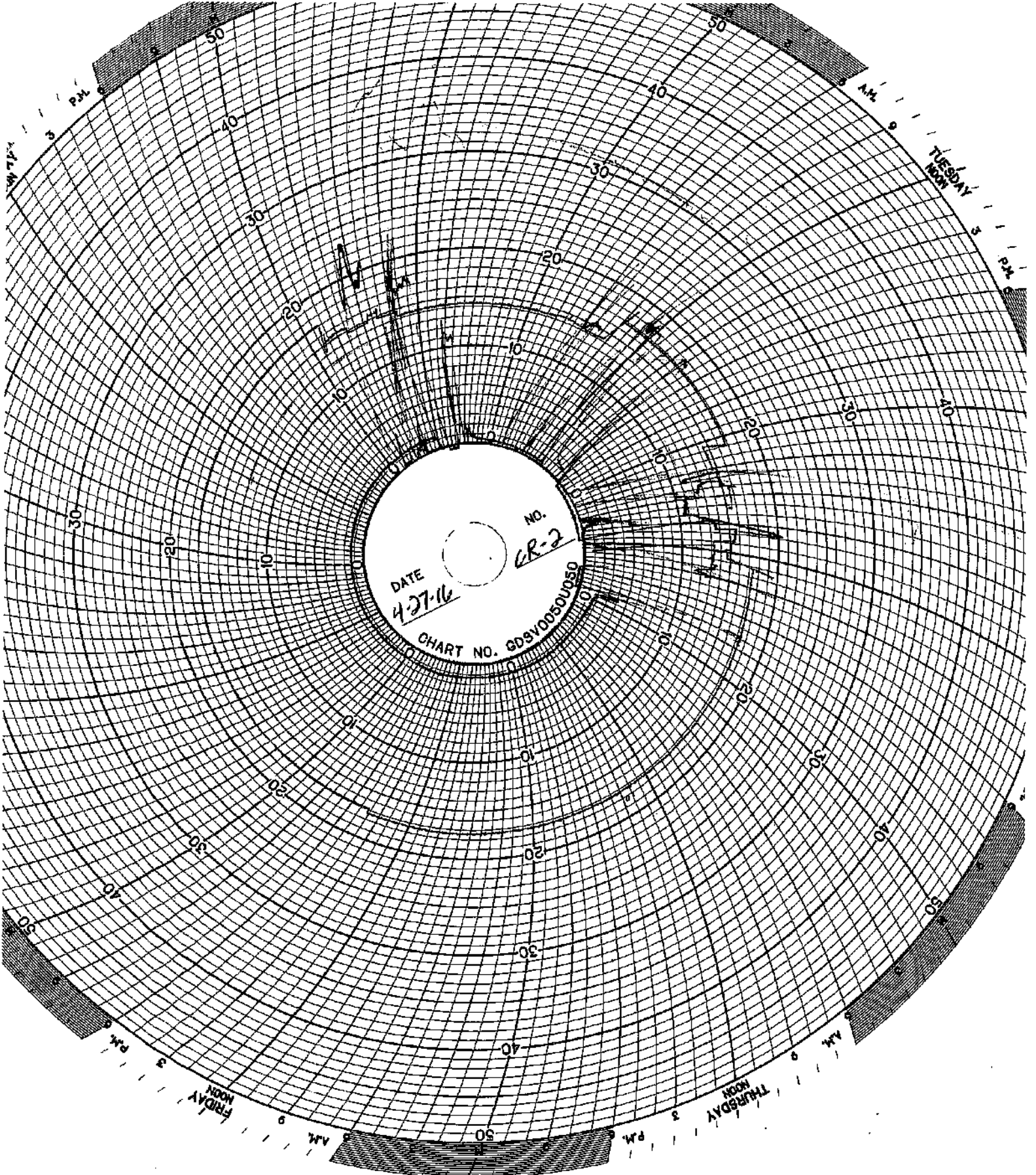
Green Pen – Well 2 Monthly Volume

Channel #4

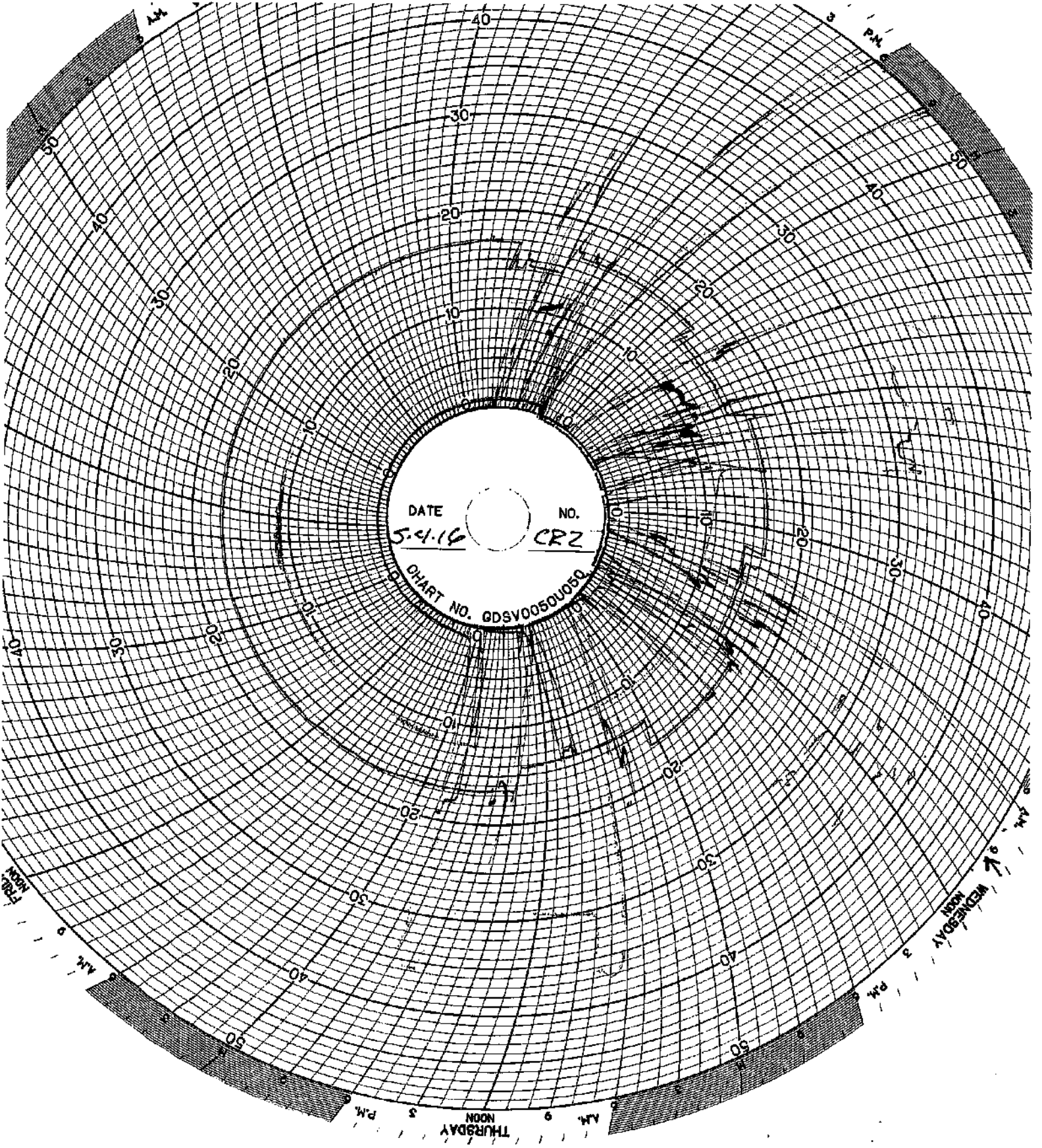
Black Pen - Temperature



DATE 4-27-16
No. CR-2
CHART NO. 608V0050U050



DATE 4-27-16
No. CR-2
CHART NO. 608V0050U050



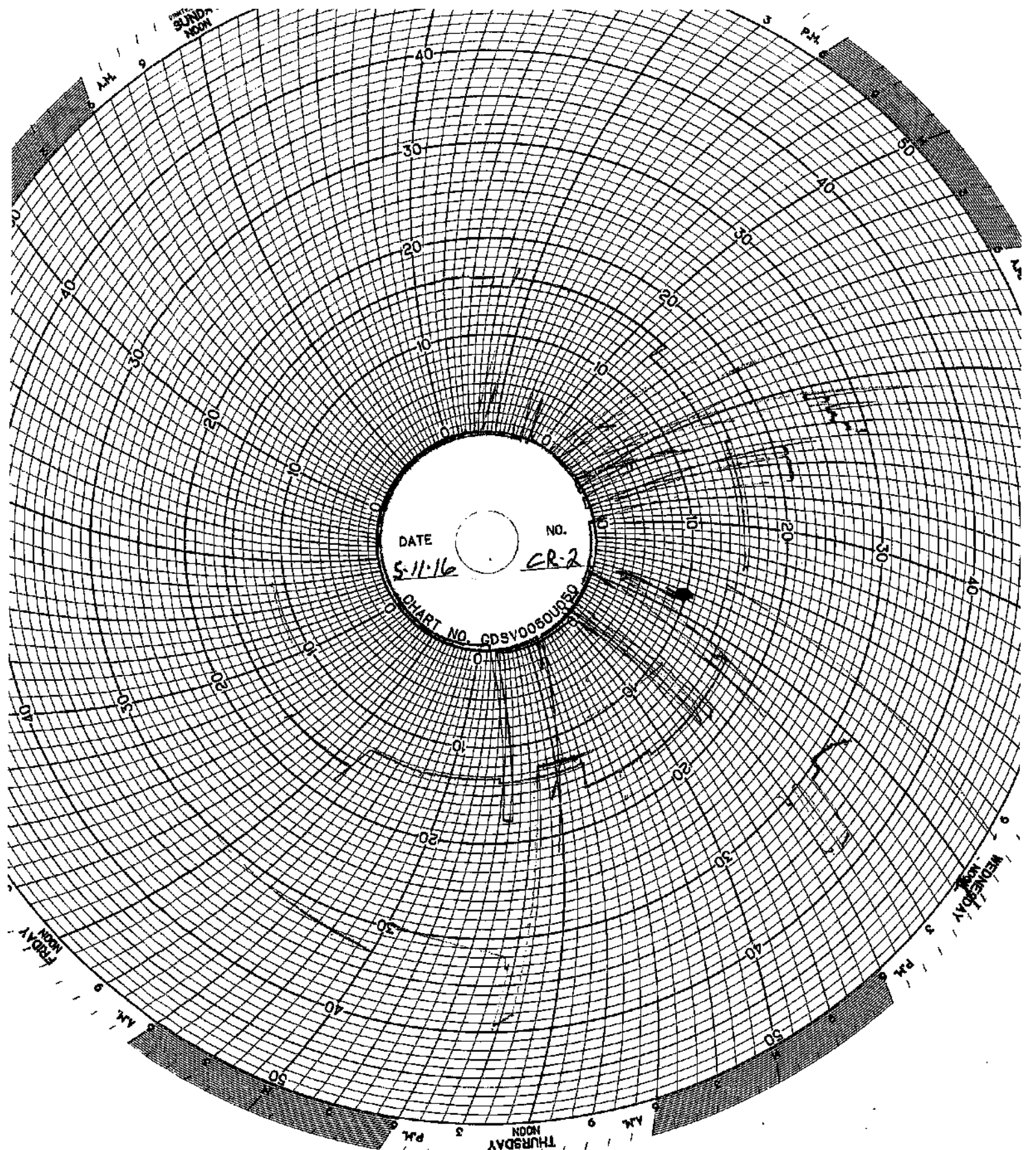
DATE 5-4-14 NO. CR2

CHART NO. GDSV0050U050

THURSDAY 9 AM 3 PM NOON

WEDNESDAY 9 AM 3 PM NOON

DATE: 5-11-16
NOON



DATE

NO.

5-11-16

CR-2

CHART NO. GDSV0060UR50

9 AM

9 PM

9 AM

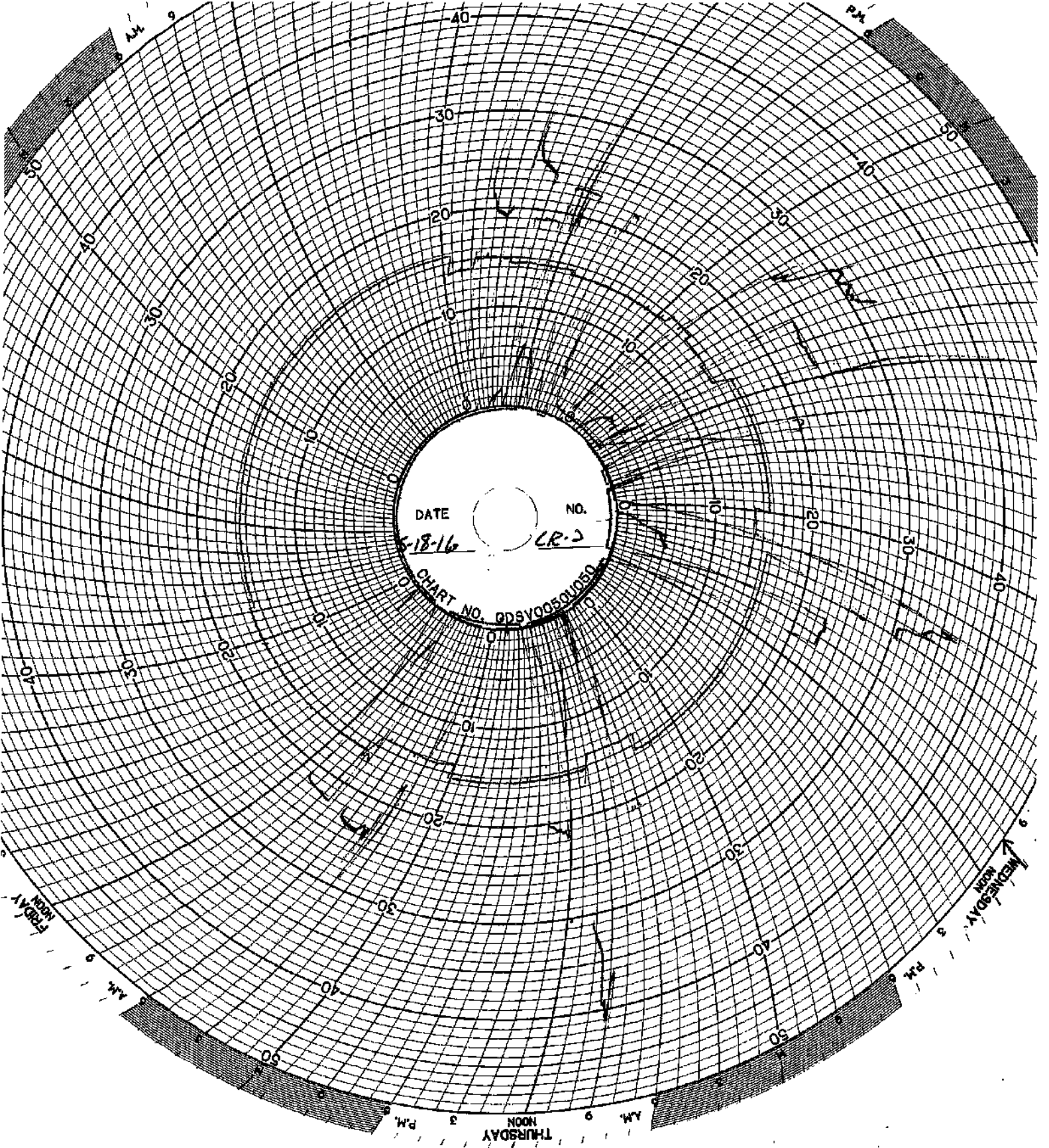
9 PM

THURSDAY

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DATE

NO.

4-18-16

CR-2

CHART NO. QDSV06501050

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NOON

AM

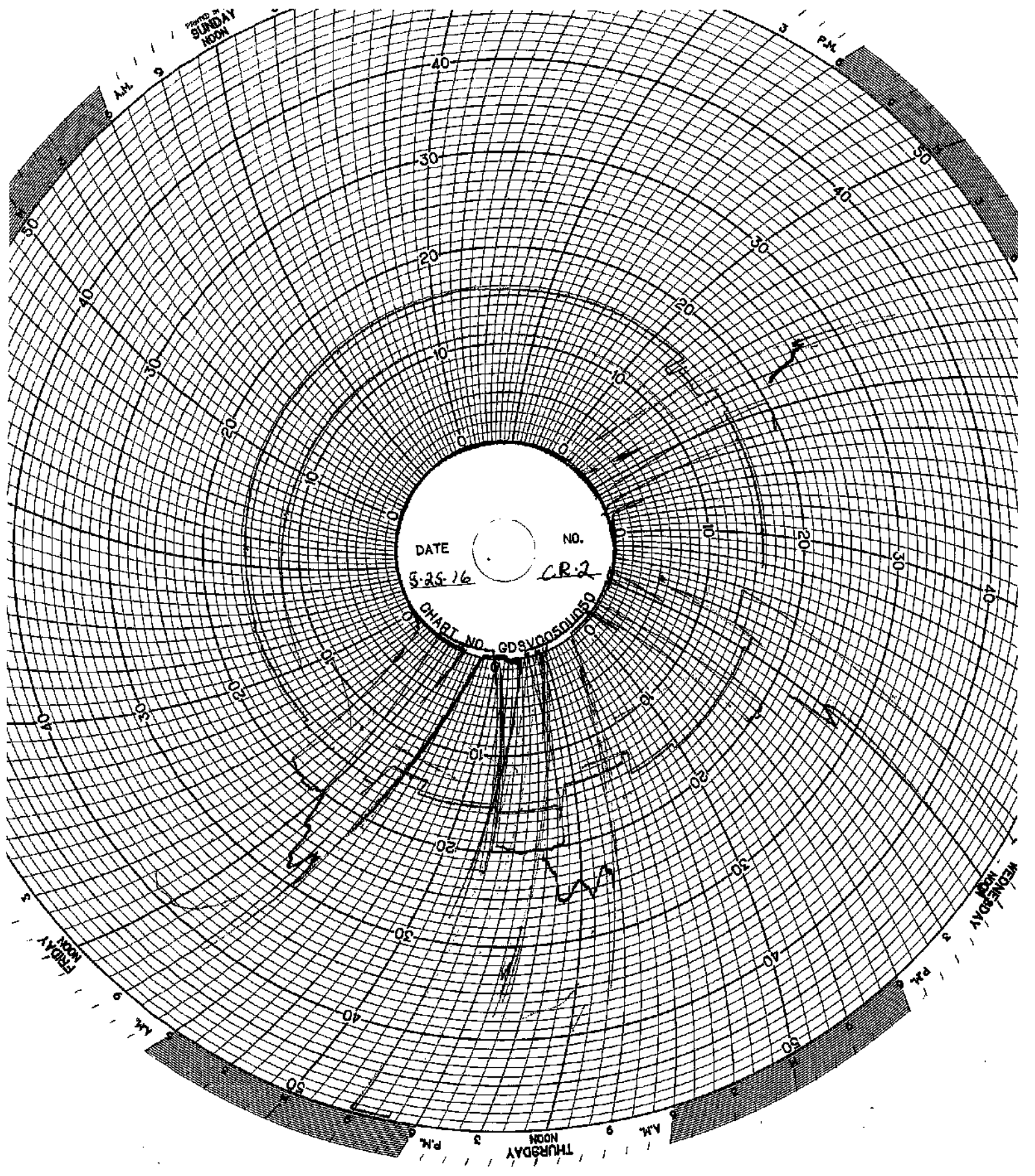
PM

WEDNESDAY
NOON

PM

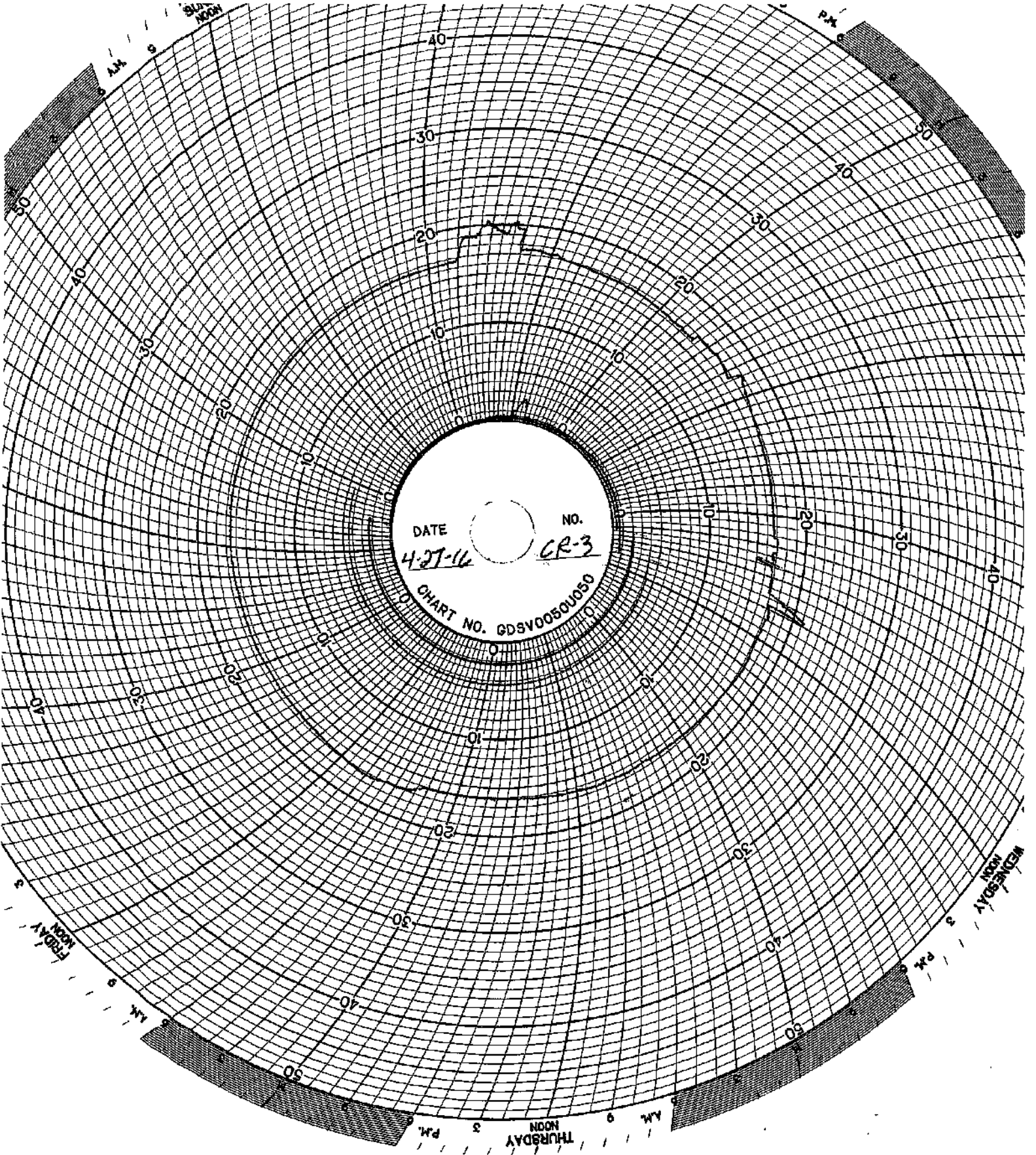
AM

PRINTED BY
SUNDAY
NOON



DATE 5-25-16 NO. CR-2
CHART NO. GDSV00501050

THURSDAY
NOON
P.M.
A.M.
FRIDAY
SATURDAY
SUNDAY
NOON
P.M.
A.M.



DATE 4-27-46 NO. CR-3
CHART NO. GDSV0050U050

PRINTED IN U.S.A.
SUNDAY
NOON

P.M.

40

30

20

10

0

-10

-20

-30

-40

-50

50

40

30

20

10

0

-10

-20

-30

-40

-50

A.M.

40

30

20

10

0

-10

-20

-30

-40

-50

-60

-70

-80

-90

-100

-110

-120

-130

-140

-150

DATE

5-4-16

NO.

CR3

CHART NO. 0D8V0050U050

FRIDAY
NOON

A.M.

50

40

30

20

10

0

-10

P.M.

THURSDAY

NOON

50

40

30

20

10

0

-10

-20

-30

-40

-50

-60

-70

-80

-90

-100

-110

-120

-130

-140

-150

FRIDAY
NOON

A.M.

50

40

30

20

10

0

-10

-20

-30

-40

-50

-60

-70

-80

-90

-100

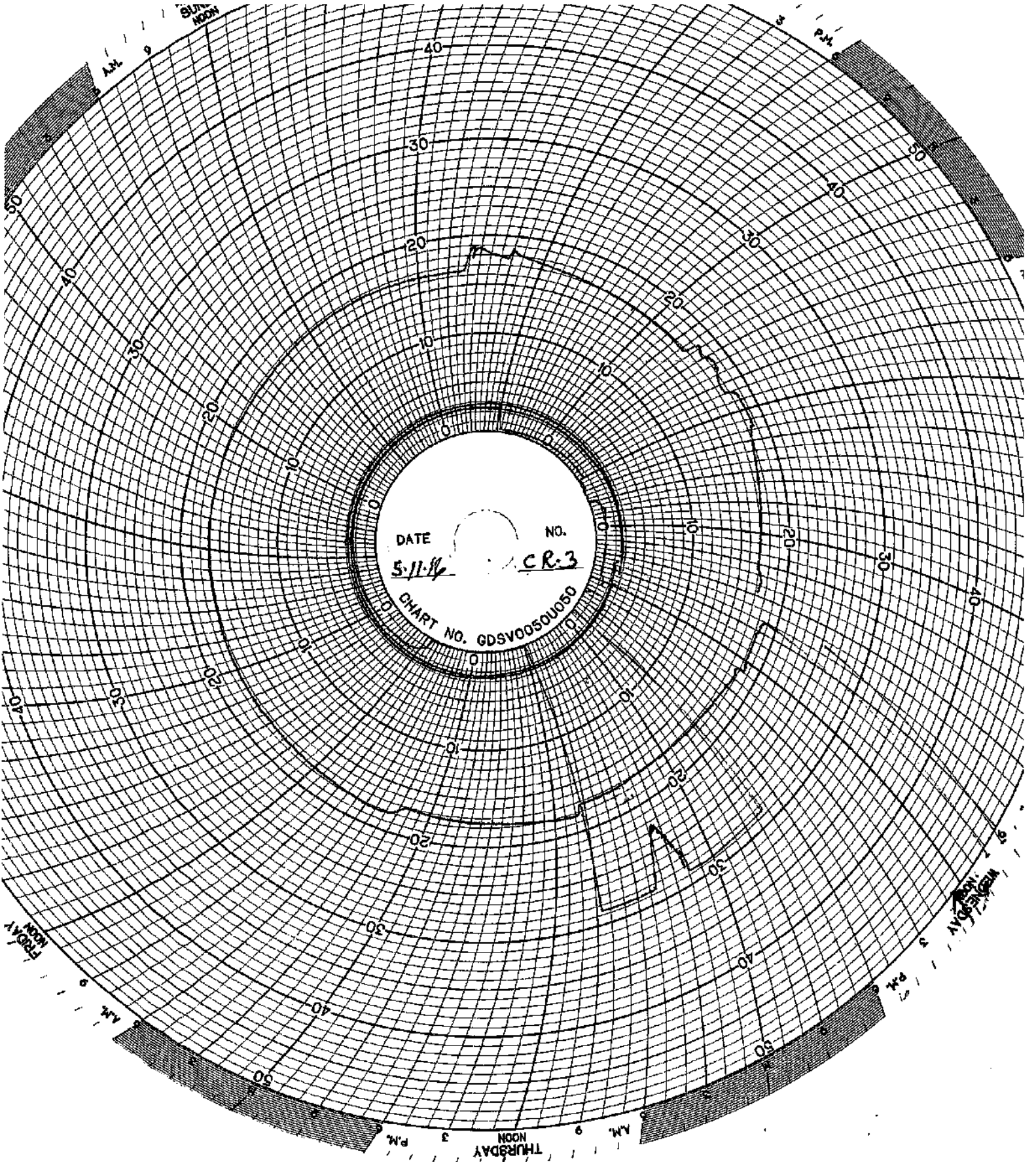
-110

-120

-130

-140

-150



SUN
NOON

P.M.

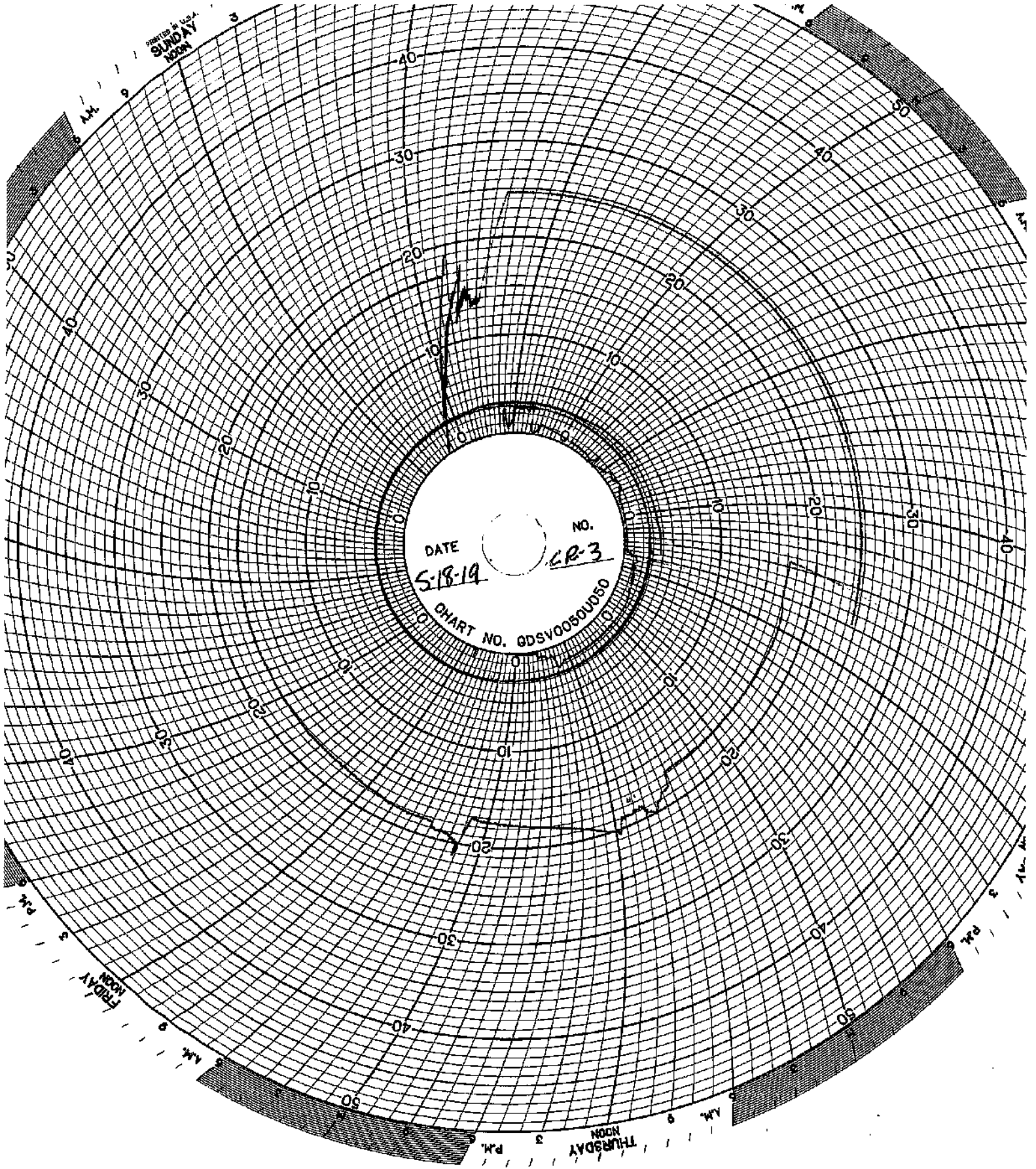
FRIDAY

THURSDAY

THURSDAY
NOON

P.M.

PRINTED IN U.S.A.
SUNDAY
NOON



DATE

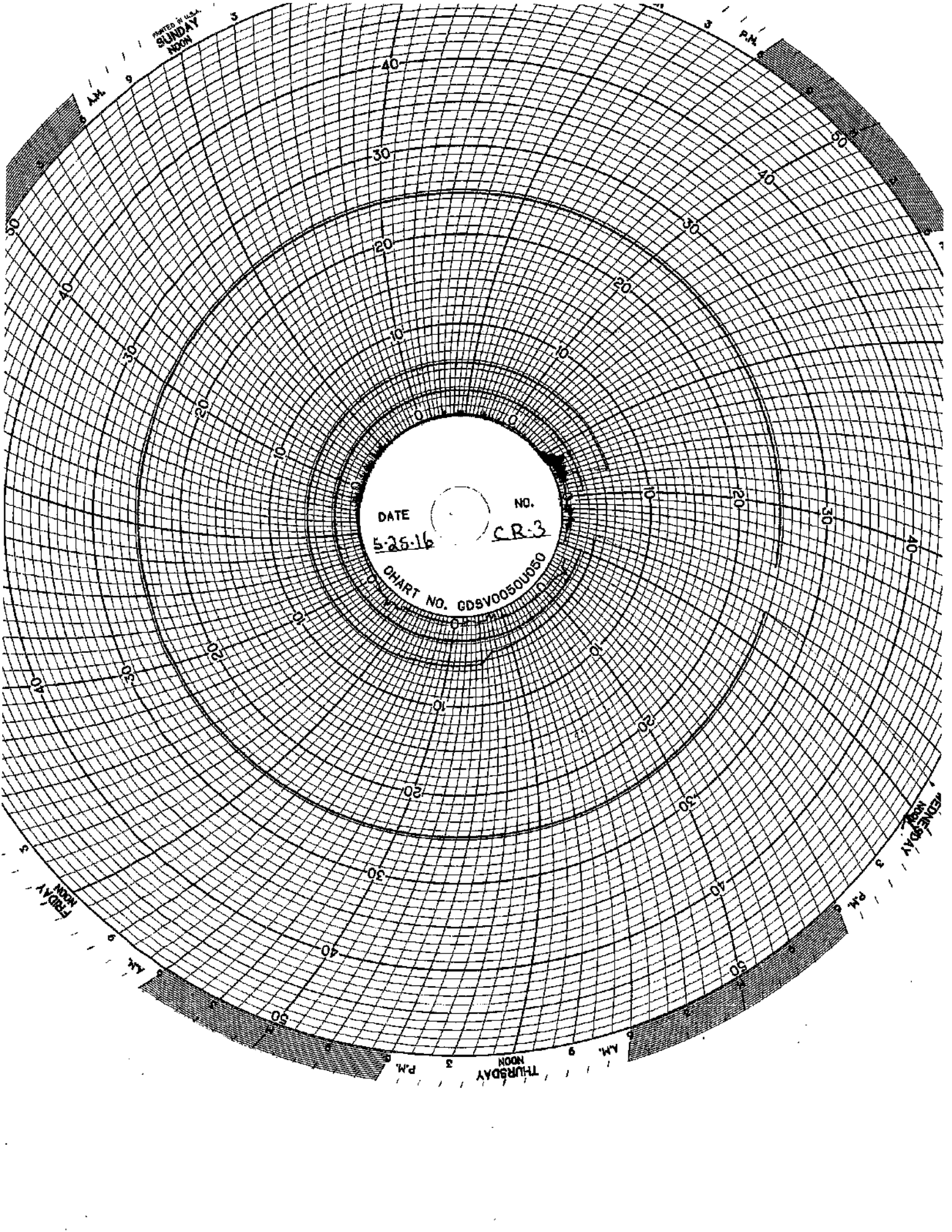
5-18-19

NO.

CR-3

CHART NO. QDSV0050U50

PRINTED IN U.S.A.
SUNDAY
NOON



DATE

5-25-16

NO.

CR-3

CHART NO. GDSV0050J050

MONDAY

TUESDAY

THURSDAY

AM

PM

PM

AM

NOON

MAINTENANCE LOG

UIC Monthly Maintenance Log

5/4/2016	Well 1	Repair annulus line at the pressure transducer
5/17/2016	Wellhead 2	Replaced the lower valve on wellhead 2

CORROSION MONITORING

CORROSION MONITORING COUPONS BASELINE VISUAL DESCRIPTION

November 4, 2013

Fiberglass

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

Hastelloy

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

Stainless Steel

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

CORROSION MONITORING COUPONS VISUAL DESCRIPTION

May 31, 2016

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 little but some 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 is silver in color with a heavy pock-marked and corroded surface.

**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	
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	

Fibergrass Coupon
May 31, 2016 / 6.784 grams

Hastelby Coupon - C276 / 5
May 31, 2016 / 13.334 grams

Stainless Steel Coupon - 316L / C15621
May 31, 2016 / 6.084 grams



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



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



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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.

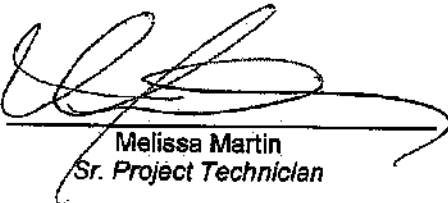
BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

Results

Barcol Hardness, Instant

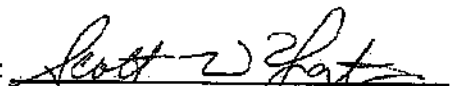
96

Prepared By:



Melissa Martin
Sr. Project Technician

Approved By:



Scott W. Yates
Plastics Testing Assistant Manager

tc

GHESQUIERE PLASTIC TESTING, INC.

20460 HARPER AVENUE
HARPER WOODS, MI 48226
PHONE (313) 885-3635
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. C. #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

DWG/kni

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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: 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 ID: 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:

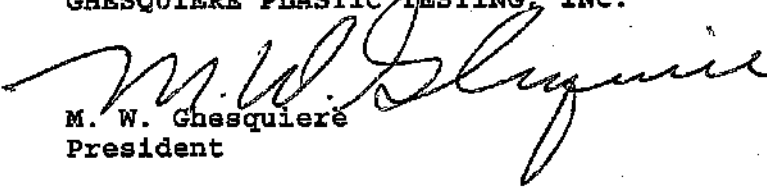
The following determination was made based upon the above test:

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:

Missy 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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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

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

**INJECTION
FINGERPRINTS**

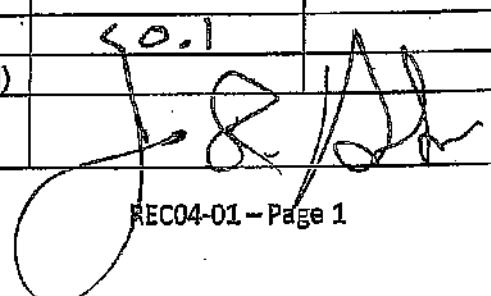
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/2/16
Receiving ID#	105021601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	FB

COPY

Compatible? (RT#)	(Yes No	Barium	
PCEs (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	1.20	TDS	7.82
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	156.4 mS		
% Solids	7.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radation Screen (as needed)			
Lab Signature			

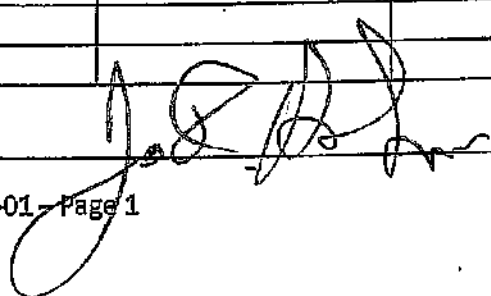
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/2/16
Receiving ID#	IO502 4602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	ML

COPY

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.)	0.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.20	TDS	9.5%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	190.7 mS		
% Solids	9.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/2/16
Receiving ID#	T05021603
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		CLIENTS 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.)	0.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.25	TDS	23.27
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	74°F		
Conductivity	> 400.0 μS		
% Solids	23.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

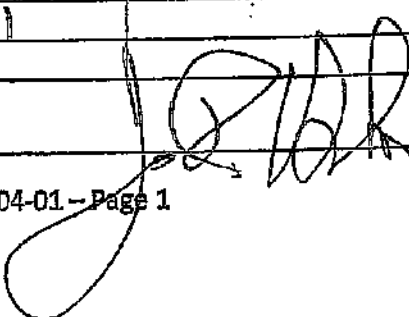
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/3/16
Receiving ID#	105031601
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

PHYSICAL/ANALYTICAL CHARACTERISTICS		CHEMISTRY	
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.)	1.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	452
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	90.0 mS		
% Solids	4.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/8/16	
Receiving ID#	105031602	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	J.H.	
Sampled by		

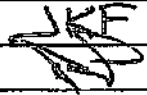
COPY

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.)	1.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	4.92
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	63°F		
Conductivity	98.4 mS		
% Solids	4.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

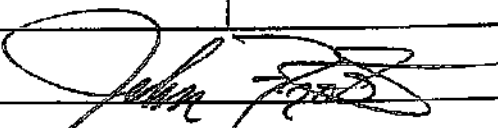
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5.4.16	
Receiving ID#	T05041601	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by		
Sampled by		

COPY

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140° F	Magnesium	
pH (S.U.)	1.56	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.1	TDS	3.8%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	63.4		
Conductivity	79. mS		
% Solids	3.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

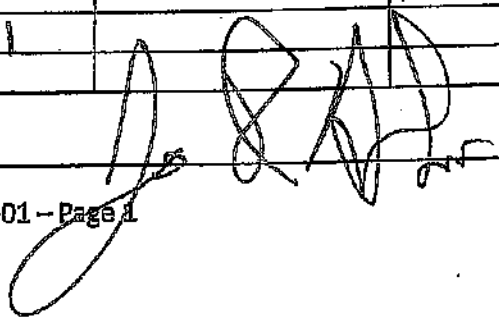
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/4/16
Receiving ID#	T.05041602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	EP

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	3.27
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	64.6 mS		
% Solids	3.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

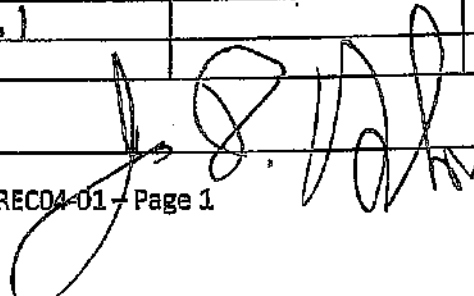
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/4/16	
Receiving ID#	E05041603	
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

FINGERPRINT		ANALYSIS	
Compatible? (RT#)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Barium	
PCEs (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	5.57
Physical Description		Resistivity	
Stream Consistency	Yes <input type="checkbox"/> No <input type="checkbox"/>	Sulfate	
Oil in Sample	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Temperature	64°F		
Conductivity	110.0mS		
% Solids	5.5		
Turbidity	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Color (visual)			
TSS (%)	0.1		
Radiation Screen (as needed)			
Lab Signature			

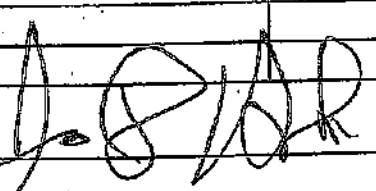
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	5/5/16
Receiving ID#	105051601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	S.H.

COPY

TEST PARAMETERS		CHEMICAL ANALYSIS	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oil Waste Only)?		Calcium	
TOC (ppm)(GC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.21	TDS	9.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	188.1 mS		
% Solids	9.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/5/16	
Receiving ID#	E05651602	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time In		
Time out		
Received by	J.H.	
Sampled by	D.A.	

COPY

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oil Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	3.7
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	73.9 μS		
% Solids	3.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

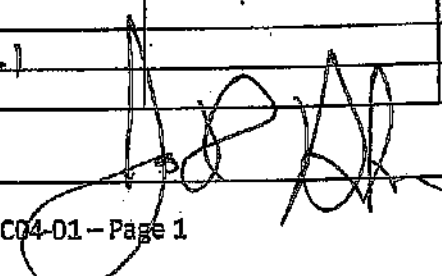
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/6/16
Receiving ID#	105061601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	ML

COPY

ANALYSIS INFORMATION		CHEMICAL ANALYSIS	
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.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	5.79
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	67°F		
Conductivity	114.0 mS		
% Solids	5.7		
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	5/6/16
Receiving ID#	T 05041672
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

PARAMETER		CONCENTRATION	
Compatible? (RT#)	(Yes) No	Barium	
PCEs (ppm)(Oil Waste Only)?		Calcium	
TOC (ppm)(CG 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	1.08	TDS	617
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	121.2 mS		
% Solids	6.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

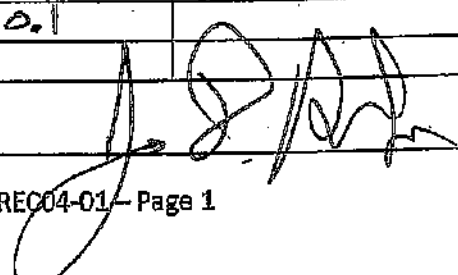
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

Date	5/6/16
Receiving ID#	705061603
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	JH
Sampled by	JH

COPY

ANALYSIS RESULTS		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.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	5.72
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	65°F		
Conductivity	115.0 mS		
% Solids	5.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

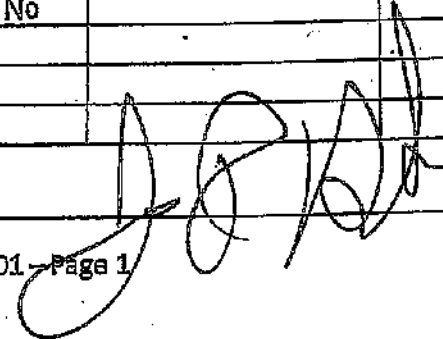
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/9/16
Receiving ID#	1050911601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H
Sampled by	ML

COPY

FINGERPRINT		CHEMICAL DATA	
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCEs (ppm)(Oil Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.21	TDS	11.6%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	73°F		
Conductivity	232.6 μS		
% Solids	11.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/9/16
Receiving ID#	106091602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	[Signature]

COPY

LEAD		COPPER	
Compatible? (RT#)	Yes <input checked="" type="checkbox"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CG Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.25	TDS	11.6.7.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	73°F		
Conductivity	232.7 mS		
% Solids	11.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

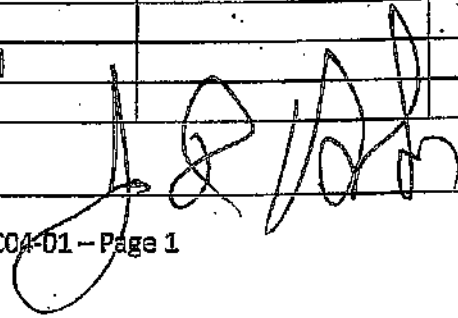
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/10/16	
Receiving ID#	T05101601	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time In		
Time out		
Received by	J.H.	
Sampled by	ML	

COPY

TEST RESULTS		CLIENT DATA	
Compatible? (RT#)	Yes No	Barium	
PCEs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.27	TDS	10.6.2
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	74°F		
Conductivity	212.6mS		
% Solids	10.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/10/16
Receiving ID#	I05101602
Manifest# Line:	
Landfill Cert included	Yes No
ECR Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H
Sampled by	[Signature]

COPY

ANALYSIS		PHYSICAL	
Compatible? (RT#)	(Yes) No	Barium	
PCEs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	<0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.25	TDS	9.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	71°F		
Conductivity	196.4ms		
% Solids	9.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

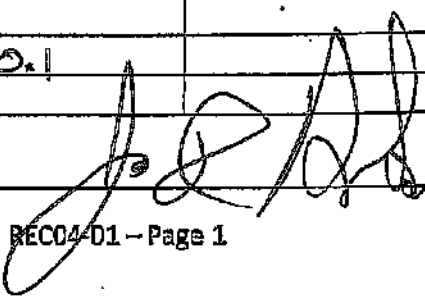
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/10/16
Receiving ID#	705101603
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	24
Sampled by	24

COPY

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.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.23	TDS	9.77
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	72°F		
Conductivity	193.2 mS		
% Solids	9.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

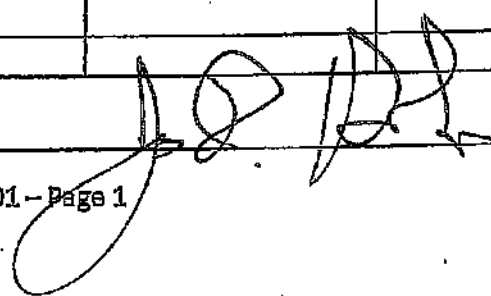
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/11/16	
Receiving ID#	T0511601	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time In		
Time out		
Received by	J.H.	
Sampled by	ML	

COPY

ANIONIC		CATIONIC	
Compatible? (RT#)	(Yes) No	Barium	
PCEs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CG Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.25	TDS	892
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	72°F		
Conductivity	179.1 nS		
% Solids	8.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

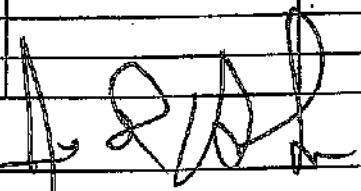
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/11/16
Receiving ID#	10511602
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	BP

COPY

PHYSICAL & CHEMICAL		ANALYSIS	
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.)	0.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.14	TDS	7.67
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	69°F		
Conductivity	153.0 mS		
% Solids	7.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/11/16	
Receiving ID#	E05111603	
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

TEST RESULTS		CHEMICALS	
Compatible? (RT#)	Yes	No	Barium
PCBs (ppm)(Only 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	1.11		TDS
Physical Description			Resistivity
Stream Consistency	Yes	No	Sulfate
Oil In Sample	Yes	No	
Temperature	68°F		
Conductivity	133.2 mS		
% Solids	6.7		
Turbidity	Yes	No	
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

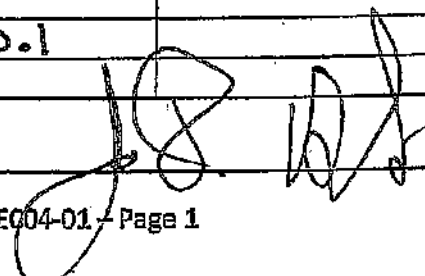
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	05-11-16
Receiving ID#	IOS111604
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	GK

COPY

PHYSICAL PROPERTIES		CHEMICAL PROPERTIES	
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCEs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Wastes 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	6.3%
Physical Description		Resistivity	
Stream Consistency	<input type="radio"/> Yes <input type="radio"/> No	Sulfate	
Oil In Sample	<input type="radio"/> Yes <input type="radio"/> No		
Temperature	68°F		
Conductivity	126.4 mS		
% Solids	6.3		
Turbidity	<input type="radio"/> Yes <input type="radio"/> No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/12/16
Receiving ID#	T05121601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

Compatible? (RT#)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Barium	
PCEs (ppm)(Only Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.09	TDS	5.37
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	106.5mS		
% Solids	5.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/16/16
Receiving ID#	105161601
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

ANALYSIS		RESULTS	
Compatible? (RT#)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Barium	
PCEs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	
pH (S.U.)	20.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.29	TDS	13.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	268.4 mS		
% Solids	13.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

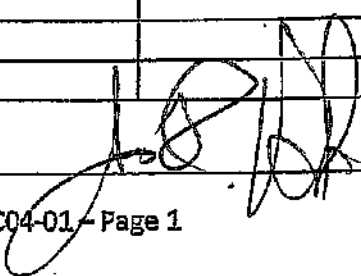
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/17/16	
Receiving ID#	E05171601	
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time In		
Time out		
Received by	JTH	
Sampled by	JTH	

COPY

ANALYSIS INFORMATION		ANALYSIS RESULTS	
Compatible? (RT#)	Yes No	Barium	
PCEs (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	1.14	TDS	837
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	166.5mS		
% Solids	8.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

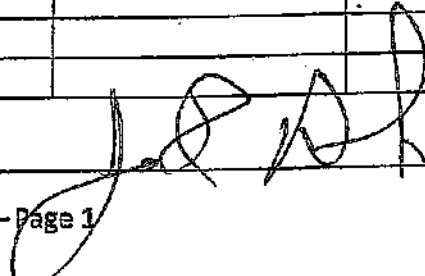
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5-17-16
Receiving ID#	LOS11602
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

Compatible? (RT#)	Yes No	Barium	
PCEs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.18	TDS	9.77
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	193.0 μS		
% Solids	9.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

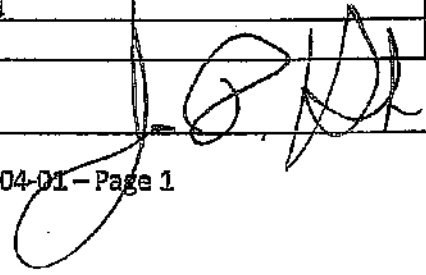
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/19/16	
Receiving ID#	J05191601	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time In		
Time out		
Received by	J.T.	
Sampled by	ML	

COPY

LABORATORY TESTS		ELEMENTS	
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.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.25	TDS	12.59
Physical Description		Resistivity	
Stream Consistency	Yes <input type="radio"/> No <input type="radio"/>	Sulfate	
Oil In Sample	Yes <input type="radio"/> No <input type="radio"/>		
Temperature	68°F		
Conductivity	250.7 mS		
% Solids	12.5		
Turbidity	Yes <input type="radio"/> No <input type="radio"/>		
Color (Visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

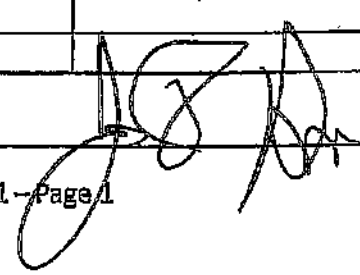
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/20/16	
Receiving ID#	105201601	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	J.H.	
Sampled by	ML	

COPY

Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCEs (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	1.12	TDS	6.79
Physical Description		Resistivity	
Stream Consistency	<input type="radio"/> Yes <input type="radio"/> No	Sulfate	
Oil In Sample	<input type="radio"/> Yes <input type="radio"/> No		
Temperature	69°F		
Conductivity	132.7 nS		
% Solids	6.7		
Turbidity	<input type="radio"/> Yes <input type="radio"/> No		
Color (visual)			
TSS (%)	LD.1		
Radiation Screen (as needed)			
Lab Signature			

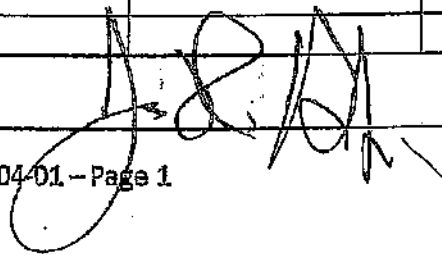
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ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

Date	5/23/06
Receiving ID#	159231601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	ML

COPY

WATER QUALITY		CHEMICALS	
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCEs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	
pH (S.U.)	1.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	5.07
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	99.3 μS		
% Solids	5.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

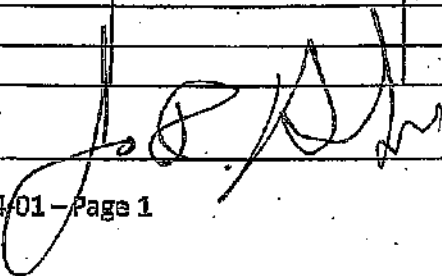
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	3/23/16	
Receiving ID#	505231602	
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time In		
Time out		
Received by	S.H.	
Sampled by	ML	

COPY

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.)	1.7		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.13		TDS	4.4%
Physical Description			Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	74°F			
Conductivity	87.8ms			
% Solids	4.4			
Turbidity	Yes	No		
Color (visual)				
TSS (%)	< 0.1			
Radiation Screen (as needed)				
Lab Signature				

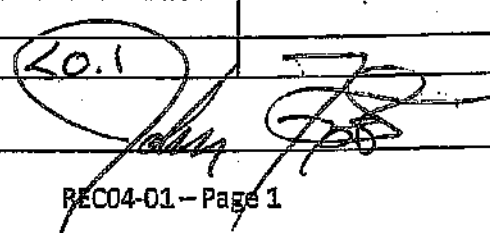
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

DATE/TIME INFORMATION	
Date	5/24/16
Receiving ID#	105241601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JKF
Sampled by	ML

COPY

TEST INFORMATION		CLIENT INFORMATION	
Compatible? (RT#)	(Yes) No	Barium	
PCEs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	1.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.1	TDS	14.3
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	73		
Conductivity	95		
% Solids	14.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)			
Radiation Screen (as needed)	20.1		
Lab Signature			

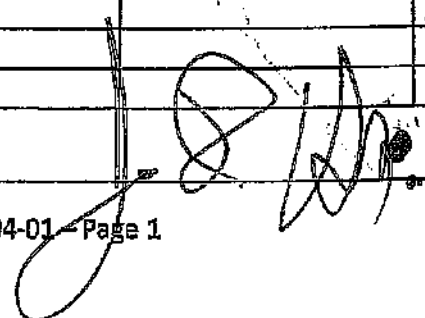
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/24/16	
Receiving ID#	E05241602	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	J.M.	
Sampled by	ML	

COPY

Compatible? (RT#)	Yes	No	Barium	
PCEs (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	1.13		TDS	6.19
Physical Description			Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	73°F			
Conductivity	122.2 uS			
% Solids	6.1			
Turbidity	Yes	No		
Color (visual)				
TSS (%)	6.1			
Radiation Screen (as needed)				
Lab Signature				

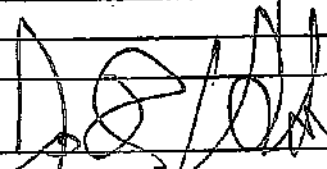
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/25/16	
Receiving ID#	T05251601	
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time In		
Time out		
Received by	J.B.	
Sampled by	P.B.	

COPY

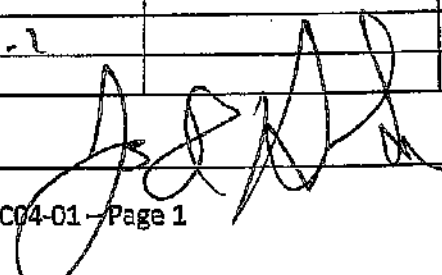
PHYSICAL/ CHEMICAL		PHYSICAL/ CHEMICAL	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	
pH (S.U.)	0.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.16	TDS	8.79
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	75°F		
Conductivity	174.4 μS		
% Solids	8.7		
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	5/25/16
Receiving ID#	10525/602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

TEST RESULTS		CONTAMINANTS	
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.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	8.2
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	72°F		
Conductivity	115.2 mS		
% Solids	8.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

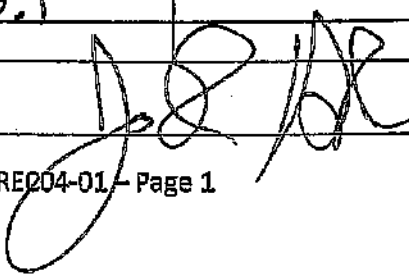
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	5/24/16
Receiving ID#	105241603
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	PP

COPY

ANALYSIS INFORMATION		COMPOSITION	
Compatible? (RT#)	Yes No	Barium	
PCEs (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	1.15	TDS	8.2.7.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	74°F		
Conductivity	165.2 mS		
% Solids	8.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

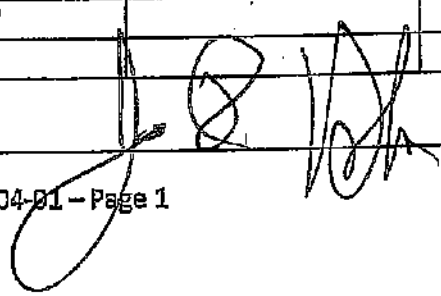
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/26/16	
Receiving ID#	105261601	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	J.H.	
Sampled by	ML	

COPY

PHYSICAL PROPERTIES		CHEMICAL PROPERTIES	
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Only 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	5.97
Physical Description		Resistivity	
Stream Consistency	Yes <input type="radio"/> No <input type="radio"/>	Sulfate	
Oil in Sample	Yes <input type="radio"/> No <input type="radio"/>		
Temperature	72°F		
Conductivity	117.0 mS		
% Solids	5.9		
Turbidity	Yes <input type="radio"/> No <input type="radio"/>		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

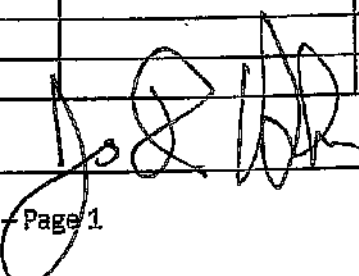
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/26/16
Receiving ID#	I 05261602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H
Sampled by	ML

COPY

PHYSICAL & CHEMICAL		PHYSICAL & CHEMICAL	
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.)	0.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.12	TDS	7.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	74°F		
Conductivity	147.2 mS		
% Solids	7.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	0.1		
Radiation Screen (as needed)			
Lab Signature			

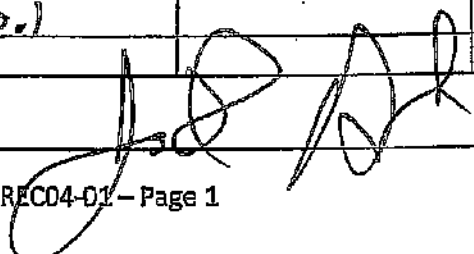
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5-26-16
Receiving ID#	I05261603
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

LEACHING WATER		SOLUBLE SOLIDS	
Compatible? (RT#)	(Yes) No	Barium	
PCEs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.16	TDS	8.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	75°F		
Conductivity	169.4 μS		
% Solids	8.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

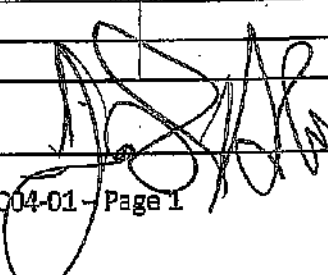
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	5/27/14
Receiving ID#	505271601
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

ANALYSIS INFORMATION		DISPOSABLES	
Compatible? (RT#)	(Yes) No	Barium	
PCEs (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	1.13	TDS	7.09
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	75°F		
Conductivity	141.3 mS		
% Solids	7.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

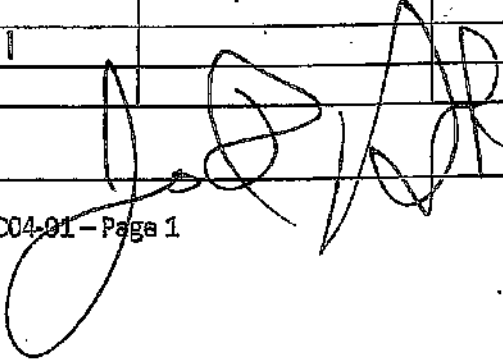
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/27/16
Receiving ID#	105271602
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

PHYSICAL DESCRIPTION		CHEMICAL ANALYSIS	
Compatible? (RT#)	Yes No	Barium	
PCEs (ppm)(Oil 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	1.13	TDS	6.92
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	76°F		
Conductivity	138.0 mS		
% Solids	6.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

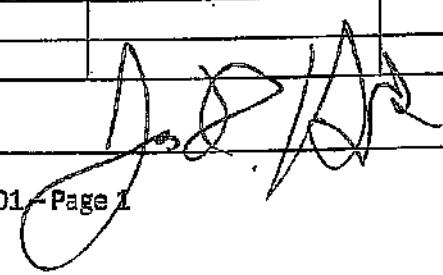
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/31/16	
Receiving ID#	105311601	
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	J.H.	
Sampled by	88	

COPY

PROPERTY		CHEMICALS	
Compatible? (RT#)	Yes No	Barium	
PCEs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	2/40	Magnesium	
pH (S.U.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	6.2%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	76°F		
Conductivity	123.8 μS		
% Solids	6.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

**WASTE STREAMS
CHARACTERIZATIONS**

THE UNIVERSITY OF CHICAGO
LIBRARY

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

THE UNIVERSITY OF CHICAGO
LIBRARY

THE UNIVERSITY OF CHICAGO
LIBRARY

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
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LIBRARY

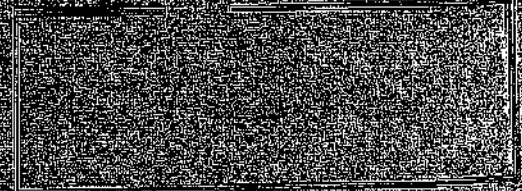
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LIBRARY

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LIBRARY

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LIBRARY

[The text in this image is extremely faint and illegible due to heavy noise and low contrast. It appears to be a dense block of text, possibly a list or a series of entries, but no specific words or structures can be discerned.]

[This section contains two distinct blacked-out rectangular areas, likely used to redact sensitive information.]



Section 1: Product and Company Information

Product Name: **TECHNICAL CLEANER (summer blend)**

OSHA Date
12/4/2014

Manufacturer: **HEAVY DUTY ALKALI LO-FOAM CLEANER**

Section 2: Hazards Identification

Signal Word: **Danger**



Hazard Class:

Skin Corrosion/Irritation 1A	Causes severe skin burns and eye damage.

HMIS RATING SCALE

0 = MINIMAL	HEALTH	3
1 = SLIGHT	FLAMMABILITY:	0
2 = MODERATE	REACTIVITY:	1
3 = SERIOUS	PERSONAL PROTECTION:	D
4 = SEVERE		

Precautionary Statements

Prevention

Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear gloves, protective clothing, eye protection and face protection.
Do not eat, drink or smoke when using this product.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Immediately call a poison center or doctor.
Wash contaminated clothing before reuse.

Storage: Store Locked Up.

Disposal: Dispose of contents and container in accordance with local regulations.

Section 3: Composition / Information on Ingredients

CAS#	Ingredients	%BWT
1310-73-2	Sodium Hydroxide	< 50
6419-19-8	Phosphonic Acid	2
7732-18-5	Moisture	bal

The balance of the ingredients are not classified as hazardous or are below the concentration limit to be classified as hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Section 4: First Aid Measures

Eyes: Flush with large amount of water 15 minutes. Obtain medical aid immediately.
Inhalation: Remove victim to fresh air. Provide oxygen if breathing is difficult. Obtain Medical Aid
Skin: Flush area with large amounts of water. Neutralize with dilute vinegar or citrus juices.
Ingestion: DO NOT INDUCE VOMIT. Drink large amounts of water or citrus juice. Obtain prompt medical aid.

INDUCE VOMIT: DO NOT INDUCE VOMIT:

Section 5: Firefighting Measures

Flash Point: NA
Material Is: non-flammable
Flammable Limits: LEL NA UEL NA
Method Used: NA
Extinguish Media: Water Fog, CO2, Dry Chemical, Foam

Special Fire Fighting Proc.

Fire fighters should use self-contained breathing apparatus and full protective clothing. Use water spray to cool fire exposed containers.

Section 6: Accidental Release Measures

Spills: Should be contained and absorbed with inert material, collected & disposed of in a proper manner.
Prevent spills from entering waterways, sewers and confined spaces.
Keep unnecessary and unprotected people away from area of spill.
Wear appropriate personal protective equipment as specified in Section 8.
Disposal: Dispose of contents and container in accordance with local regulations.

Section 7: Handling and Storage

Storage: Store Locked Up.

Incompatibilities acids alkali oxidizers reducers

Other:

Holding Tank Materials Of Construction:
STEEL, STAINLESS OR POLY.

Freezing Information: Not Damaged by Freezing

Shelf Life: 10 Years

Section 8: Exposure Controls/Personal Protection

CAS#	Ingredients	TLV(mg/m3)	PEL(mg/m3)
1310-73-2	Sodium Hydroxide	2	2
6419-18-8	Phosphonic Acid	ND	ND
7732-18-5	Molature	ND	ND

Personal Protection: Employers must perform a Hazard Assessment of all workplaces to determine the proper protective equipment required for all tasks.

Ventilation: Use in well ventilated areas

Protective Clothing: Provide rubber gloves, chemical goggles or protective eyewear, boots, aprons & hard hat if in contact.

Respiratory: Use protection if misting of product is possible.

Eye Protection: Always use safety goggles and full face shield

Section 9: Physical and Chemical Properties

Physical State: Liquid	Flash Point: NA	Auto ignition Temp: NA
Boiling Point (F): 212+	Solids % by wt. < 60	Decomposition Temp: NA
Specific Gravity: (H2O=1): 1.4	Vapor Density: NA	Viscosity: NA
Melting-Freeze Point: NA	Odor: NONE	Partition Coefficient: NA
Vapor Pressure (mmHg): NA	pH 100%: 13	Octanol/Water: NA
Solubility in Water % b/w: 100	Color: VWV	Flammable Limits: non-flammable.
Evaporation Rate (BuA=1): NA	VOC Content %: 0	LEL NA UEL NA

Section 10: Stability and Reactivity

Incompatibilities acids alkali oxidizers reducers

Other:

Hazardous Decomposition Products: Carbon Monoxide

Hazardous Polymerization: Will Not Occur

Stability: Stable

Section 11: Toxicological Information

Ingestion: Will cause severe burns to mouth, esophagus, and stomach.

Eye Contact: Can cause severe burns. Danger of permanent injury.

Skin Contact: Can cause severe burns.

Inhalation: Can cause irritation or severe burns to the respiratory tract.

CAS#	Ingredients	Carcinogen	IDLH (ppm)
1310-73-2	Sodium Hydroxide	No	10
6419-18-8	Phosphonic Acid	No	ND
7732-18-5	Molature	No	ND

Section 12: Ecological Information

Environmental Toxicity: This product has not been evaluated for ecotoxicity. As with any chemical, environmental exposure should be prevented and minimized as much as possible.

Section 13: Disposal Considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Wastes should be tested and classified in accordance with 40 CFR Part 261. It is the generators responsibility to determine if waste meets the applicable guidelines of hazardous waste. Consult with an environmental professional for assistance. Use only approved transporters, treatment, storage or disposal facilities.

Section 14: Transport Information

Shipping Name: UN 1824, Sodium Hydroxide Solution, 8, PG II

Hazard Class:

CORROSIVE

Section 15: Regulatory Information

CAS#	Ingredients	Sara 302	Sara 304	CERCLA RQ lbs.	Sara 313	TSCA List	Canada DSL
		EHS TPO	EHS RQ		Cercla Toxic		
1310-73-2	Sodium Hydroxide	NA	NA	1000	NO	YES	YES
6419-19-8	Phosphonic Acid	NA	NA	NA	NO	YES	YES
7732-18-8	Moisture	NA	NA	NA	NO	YES	YES

SARA 311/312 Hazard Categories

- Acute Health Hazard Yes No
 Chronic Health Hazard Yes No
 Reactive Hazard Yes No
 Fire Hazard Yes No
 Sudden Release of Pressure Hazard Yes No

Section 16: Other Information

OSHA Date 12/4/14

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Torch Surface Tech be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, notwithstanding, even if Torch Surface Tech has been advised of the possibility of such damages.

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **00891**

GENERATOR INFORMATION

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

BILLING INFORMATION

SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name: Acid solution

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

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: D002

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Jt. blue/green</u>	Suspended Solids 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5% <input type="checkbox"/>	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input checked="" type="checkbox"/> 1.3-1.4 Exact / Other <u>1.07</u>	<i>acceptable</i> <i>05.24.16</i>
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pH: NA ≤ 2 2-4 4-6 6-8 8-10 10-12.5 ≥ 12.5

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

VOC CONCENTRATION - 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	80	85	HCL & Sulfuric acid	20	15
		%			%
		%			%
		%			%
		%			%

FINGERPRINT FORM

00891

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	4/28/16
Receiving ID#	Waste Recd
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	
Transporter	
Time in	
Time out	
Received by	J.P.
Sampled by	[Signature]

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.)	0.9	Sodium Chloride	
Cyanides? (mg/L)	<30	Bicarbonate	
Sulfides? (ppm)	<200	Carbonate	
Specific Gravity	1.07	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	69°F		
Conductivity	148.9 mS		
% Solids	9.0		
Turbidity	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Color (visual)	Green		
TSS (%)	<0.1		
Radiation Screen (as needed)	Negative		
Lab Signature	[Signature]		

GENERATOR INFORMATION

Name: _____ USEPA ID # _____
 Facility Address: _____ SIC/NAICS Code: _____ State Code: _____
 City: _____
 Contact: _____ Phone: _____ Fax: _____

BILLING INFORMATION

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:
REMEDIATION WATER CONTAMINATED WITH ARSENIC
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
OLD TYCO FIREPROOFING PLANT REMEDIATION. WATER IS CONTAINED IN LARGE HOLDING CELLS.

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: D044

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other _____	acceptable 050216
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pH: NA ≤ 2 2 - 4 4 - 6 6 - 8 8 - 10 10 - 12.5 ≥ 12.5

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

VOC CONCENTRATION - 150 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>REMEDIATION WATER</u>	<u>100</u>	<u>100</u>			

Metals: Indicate if this waste contains any of the following metals, if Generator knowledge provides backup

Lab Analysis Generator Knowledge TCLP TOTAL

	Not Present	Concentration		Not Present	Concentration					
PCB	<input type="checkbox"/>	_____ ppm	Aromatic Amine	<input type="checkbox"/>	_____ ppm	Arsenic (As)	D004	<input type="checkbox"/>	< 6 ppm	<u>37</u> ppm
Dioxins	<input type="checkbox"/>	_____ ppm	Pesticides	<input type="checkbox"/>	_____ ppm	Barium (Ba)	D005	<input type="checkbox"/>	< 100 ppm	_____ ppm
Cyanides Reactive	<input type="checkbox"/>	_____ ppm	Rodenticides	<input type="checkbox"/>	_____ ppm	Cadmium (Cd)	D006	<input type="checkbox"/>	< 1 ppm	_____ ppm
Cyanides Total	<input type="checkbox"/>	_____ ppm	Fungicides	<input type="checkbox"/>	_____ ppm	Chromium (Cr)	D007	<input type="checkbox"/>	< 5 ppm	_____ ppm
Sulfides Reactive	<input type="checkbox"/>	_____ ppm				Lead (Pb)	D008	<input type="checkbox"/>	< 5 ppm	_____ ppm
Sulfides Total	<input type="checkbox"/>	_____ ppm				Mercury (Hg)	D009	<input type="checkbox"/>	< 0.2 ppm	_____ ppm
						Selenium (Se)	D010	<input type="checkbox"/>	< 1 ppm	_____ ppm
						Silver (Ag)	D011	<input type="checkbox"/>	< 5 ppm	_____ ppm

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds _____
- DOT Shipping Name WASTE HAZARDOUS LIQUID, N.O.S. (ARSENIC) Hazard Class 9 UN/NA 3092
- PG III ERG 171 Hazardous Constituents for "n.o.s." _____
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: 10-1 Million GAL 8. 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.

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

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

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



6. 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

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile: **00894**

GENERATOR INFORMATION

Name: [REDACTED] USEPA ID# _____

Facility Address: [REDACTED] SIC/NAICS Code: _____ State Code: _____

City: [REDACTED]

Contact: [REDACTED] Phone: [REDACTED]

SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Attention: _____ Phone: () _____ Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:

WASTE ACID (HCL)

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

NOT-DIP GALVANIZING

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste

2. Regulated by TSCA? Yes No (PCBs, etc.)

3. List ALL Applicable Waste Codes: D002 D006 D007 D008

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other: <u>Clear</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 checked="" type="checkbox"/> 1.3-1.4 Exact / Other: <u>1.30</u>	<u>accepted</u> <u>05.09.16</u>
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pH: NA ≤ 2 2-4 4-6 6-8 8-10 10-12.5 ≥ 12.5

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

VOC CONCENTRATION - -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
<u>Hydrochloric Acid</u>	<u>40</u>	<u>1</u>			
<u>Water</u>	<u>99</u>	<u>20</u>			
<u>Solids</u>	<u>55</u>	<u>1</u>			

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

Lab Analysis Generator Knowledge TCLP TOTAL

	Not Present	Concentration		Not Present	Concentration				
PCB	<input type="checkbox"/>	_____ ppm	Aromatic Amine	<input type="checkbox"/>	_____ ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	< 5 ppm
Dioxins	<input type="checkbox"/>	_____ ppm	Pesticides	<input type="checkbox"/>	_____ ppm	Barium (Ba)	D005	<input type="checkbox"/>	< 100 ppm
Cyanides Reactive	<input type="checkbox"/>	_____ ppm	Rodenticides	<input type="checkbox"/>	_____ ppm	Cadmium (Cd)	D006	<input type="checkbox"/>	< 1 ppm
Cyanides Total	<input type="checkbox"/>	_____ ppm	Fungicides	<input type="checkbox"/>	_____ ppm	Chromium (Cr)	D007	<input type="checkbox"/>	< 6 ppm
Sulfides Reactive	<input type="checkbox"/>	_____ ppm				Lead (Pb)	D008	<input type="checkbox"/>	< 5 ppm
Sulfides Total	<input type="checkbox"/>	_____ ppm				Mercury (Hg)	D009	<input checked="" 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: UN3264, Waste Corrosive Liquid, Acidic, Inorganic, N.O.S. (hydrochloric acid, ferric chloride), 8 Hazard Class 8 UN/NA 3264
- PG II ERG 154 Hazardous Constituents for "n.o.s." hydrochloric acid, ferric chloride
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: Varies or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

X Printed Name: _____

X Generator's Signature: _____

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

1. GRAB 2. TANK
 SAMPLING METHOD COLLECTION POINT

3. MIKE SMITH
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. 1 Preservation: Yes No

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

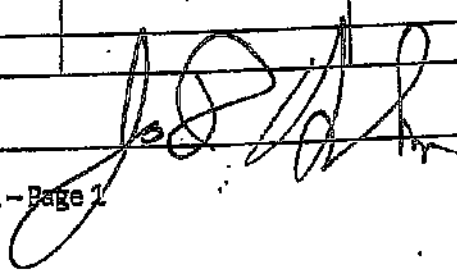
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
			<u>[Signature]</u>	<u>5-2-16</u>	<u>7:20p</u>

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/6/16
Receiving ID#	Waste Acid
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	Client

Compatible? (RT#)	(Yes) 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.)	<0.1	Sodium Chloride	
Cyanides? (mg/L)	<30	Bicarbonate	
Sulfides? (ppm)	<200	Carbonate	
Specific Gravity	1.30	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	66°F		
Conductivity	395.4		
% Solids	36.1		
Turbidity	Yes (No)		
Color (visual)	Green		
TSS (%)	<0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **00895**

GENERATOR INFORMATION

Name: _____ USEPA ID# _____

Facility Address: _____ NAICS Code: _____

City: _____

Contact: _____

BILLING INFORMATION

SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Attention: _____ Phone: () _____ Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:

ACID STRIP

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

WALWORTH

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste

2. Regulated by TSCA? Yes No (PCBs, etc.)

3. List ALL Applicable Waste Codes: D008

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Green</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 checked="" type="checkbox"/> 1.3 - 1.4 Exact / Other <u>1.36</u>	<u>accepted</u> <u>05.09.16</u>
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pH: NA ≤ 2 2-4 4-6 6-8 8-10 10-12.5 ≥ 12.5

Liquid Flash Point: <78°F 73 - 100°F 101 - 140°F 141 - 200°F >200°F None Closed Cup Open Cup

VOG 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
<u>Hydrochloric Acid</u>	<u>40</u>	<u>1</u>			
<u>Water</u>	<u>99</u>	<u>20</u>			
<u>Solids</u>	<u>55</u>	<u>1</u>			

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge provide backup
 Lab Analysis Generator Knowledge TCLP TOTAL

	Not Present	Concentration		Not Present	Concentration				
PCB	<input type="checkbox"/>	ppm	Aromatic Amines	<input type="checkbox"/>	ppm	Arsenic (As)	D004	<input type="checkbox"/>	< 5 ppm
Dioxins	<input type="checkbox"/>	ppm	Pesticides	<input type="checkbox"/>	ppm	Barium (Ba)	D005	<input type="checkbox"/>	< 100 ppm
Cyanides Reactive	<input type="checkbox"/>	ppm	Rodenticides	<input type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input type="checkbox"/>	< 1 ppm
Cyanides Total	<input type="checkbox"/>	ppm	Fungicides	<input type="checkbox"/>	ppm	Chromium (Cr)	D007	<input type="checkbox"/>	< 6 ppm
Sulfides Reactive	<input type="checkbox"/>	ppm				Lead (Pb)	D008	<input type="checkbox"/>	< 5 ppm
Sulfides Total	<input type="checkbox"/>	ppm				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

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name: 20 UN3264, Waste Corrosive Liquid, Acids, Inorganic, n.o.s. (hydrochloric acid, ferric chloride), 8, II, D002 Hazard Class 8 UN 3264
- PG II ERG 151 Hazardous Constituents for "n.o.s." hydrochloric acid, ferric chloride
4. Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Toies
5. Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: _____ or One Time
6. Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

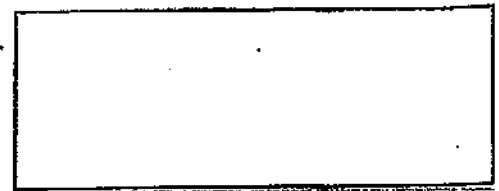
I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained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

Printed Name: _____

Generator's Signature: _____

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

1. GRAB SAMPLING METHOD 2. STRIP TANK COLLECTION POINT
3. MIKE SMITH SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
4. Sample No. 2 Preservation: Yes No



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

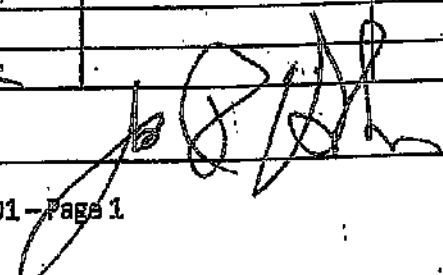
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
			<i>[Signature]</i>	5-2-16	3:30pm

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/6/16
Receiving ID#	Waste Acid Strip
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval#	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	Client

Compatibility	Characteristics	Other
Compatible? (RT#)	(Yes) No	Barium
PCEs (ppm)(Only Waste Only)?	N/A	Calcium
TOC (ppm)(CC Waste Only)?	N/A	Total Iron
Flash Point (°F)	> 140	Magnesium
pH (S.U.)	< 0.1	Sodium Chloride
Cyanides? (mg/L)	< 30	Bicarbonate
Sulfides? (ppm)	< 200	Carbonate
Specific Gravity	1.36	TDS
Physical Description	Liquid	Resistivity
Stream Consistency	(Yes) No	Sulfate
Oil in Sample	Yes (No)	
Temperature	66°F	
Conductivity	259.7 mS	
% Solids	43.0	
Turbidity	Yes (No)	
Color (visual)	Green	
TSS (%)	< 0.1	
Radiation Screen (as needed)	Negative	
Lab Signature		

GENERATOR INFORMATION

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

BILLING INFORMATION

SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Waste Acid (HCL)

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

Hot Dip Galvanizing

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: D002 D006 D007 D008

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Green</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 checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other <u>1.21</u>	acceptable 050916
---	---	---	---	----------------------

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

VOG 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
<u>Hydrochloric Acid</u>	<u>40</u>	<u>1</u>			
<u>Water</u>	<u>99</u>	<u>28</u>			
<u>solids</u>	<u>65</u>	<u>1</u>			

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

<input type="checkbox"/> Lab Analysis	<input checked="" type="checkbox"/> Generator Knowledge	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> TOTAL		
	Not Present	Concentration	Not Present	Concentration	
PCB	<input type="checkbox"/>	ppm	Aromatic Amine	<input type="checkbox"/>	ppm
Dioxins	<input type="checkbox"/>	ppm	Pesticides	<input type="checkbox"/>	ppm
Cyanides Reactive	<input type="checkbox"/>	ppm	Rodenticides	<input type="checkbox"/>	ppm
Cyanides Total	<input type="checkbox"/>	ppm	Fungicides	<input type="checkbox"/>	ppm
Sulfides Reactive	<input type="checkbox"/>	ppm			
Sulfides Total	<input type="checkbox"/>	ppm			
			Arsonic (As)	D004	<input type="checkbox"/> < 5 ppm
			Barium (Ba)	D005	<input type="checkbox"/> < 100 ppm
			Cadmium (Cd)	D006	<input type="checkbox"/> < 1 ppm
			Chromium (Cr)	D007	<input type="checkbox"/> < 5 ppm
			Lead (Pb)	D008	<input type="checkbox"/> < 5 ppm
			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: RD, UN3264, Waste Corrosive Liquid, Acids, Inorganic, N.O.S. (hydrochloric acid) Hazard Class 8 UN 3264
PG II ERG 154 Hazardous Constituents for "n.o.s." hydrochloric acid
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: VARIES or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

- Printed Name _____
- Generator's _____

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

- GRAB TANK
SAMPLING METHOD COLLECTION POINT
- Miko Smith
SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
- Sample No. 4 Preservation: Yes No



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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
			<i>[Signature]</i>	5-2-16	11:00

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, L.L.C.

RECEIVING & APPROVAL FORM

Date	5/6/16
Receiving ID#	Waste Acid
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[Redacted]
Client	[Redacted]
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

Compatible? (RT#)	(Yes) No	Barium	
PCEs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 1	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.21	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil In Sample	Yes (No)		
Temperature	66°F		
Conductivity	> 400.0ms		
% Solids	15.3		
Turbidity	Yes (No)		
Color (visual)	Green		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature	[Signature]		

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **02897**

GENERATOR INFORMATION

Name: _____ USEPA ID# _____

Facility: _____ NAICS Code: _____ State Code: _____

Contact: _____

BILLING INFORMATION

SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Attention: _____ Phone: () _____ Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Waste Acid Sludge

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

Hot Dip Galvanizing

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste

2. Regulated by TSCA? Yes No (PCBs, etc.)

3. List ALL Applicable Waste Codes: D002

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Green</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 checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other <u>1.21</u>	<u>acceptable</u> <u>0.50916</u>
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pH: NA ≤ 2 2-4 4-6 8-8 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
<u>Hydrochloric Acid</u>	<u>40</u>	<u>1</u>			
<u>Waste</u>	<u>99</u>	<u>20</u>			
<u>Solids</u>	<u>59</u>	<u>1</u>			

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge provide backup
 Lab Analysis Generator Knowledge TCLP TOTAL

	Not Present	Concentration		Not Present	Concentration				
PCB	<input type="checkbox"/>	_____ ppm	Aromatic Amines	<input type="checkbox"/>	_____ ppm	Arsenic (As)	D004	<input type="checkbox"/>	< 5 ppm
Dioxins	<input type="checkbox"/>	_____ ppm	Pesticides	<input type="checkbox"/>	_____ ppm	Barium (Ba)	D005	<input type="checkbox"/>	< 100 ppm
Cyanides Reactive	<input type="checkbox"/>	_____ ppm	Rodenticides	<input type="checkbox"/>	_____ ppm	Cadmium (Cd)	D006	<input type="checkbox"/>	< 1 ppm
Cyanides Total	<input type="checkbox"/>	_____ ppm	Fungicides	<input type="checkbox"/>	_____ ppm	Chromium (Cr)	D007	<input type="checkbox"/>	< 5 ppm
Sulfides Reactive	<input type="checkbox"/>	_____ ppm				Lead (Pb)	D008	<input type="checkbox"/>	< 5 ppm
Sulfides Total	<input type="checkbox"/>	_____ ppm				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

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
 2. Reportable Quantity (RQ) in pounds _____
 3. DOT Shipping Name RD UN3264, Waste Composed Liquid, Acidic, Inorganic, N.O.S. (Hydrochloric Acid) Hazard Class 8 UN 3264
 PG II ERG 154 Hazardous Constituents for "n.o.s." Hydrochloric Acid
 4. Method of Shipment: Bulk Tanker Van truck Rail Car Drums Totes
 5. Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: Varies or One Time
 6. Special Handling Requirements including PPE: _____

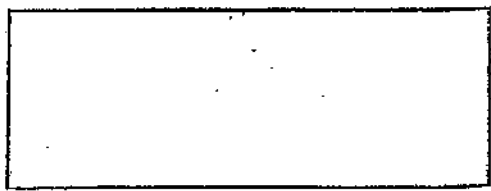
CERTIFICATION STATEMENT

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

X Printed Name: _____
 X Generator's Sign: _____

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

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



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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
			<i>[Signature]</i>	8-8-16	11:00

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/6/16
Receiving ID#	Waste Acid Strip
Manifest# Line:	
Land Ban Cert Included	Yes No <input checked="" type="checkbox"/>
EGT Approval #	
Generator	[REDACTED]
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	Client

Compatible? (RT#) Yes <input checked="" type="checkbox"/> No	Barium
PCBs (ppm)(Oil Waste Only)?	N/A
TOC (ppm)(CC Waste Only)?	N/A
Flash Point (°F)	> 140
pH (S.U.)	< 0.1
Cyanides? (mg/L)	< 30
Sulfides? (ppm)	< 200
Specific Gravity	1.21
Physical Description	Liquid
Stream Consistency Yes <input checked="" type="checkbox"/> No	Sulfate
Oil In Sample Yes <input checked="" type="checkbox"/> No	
Temperature	60°F
Conductivity	> 400.0mS
% Solids	17.9%
Turbidity Yes <input checked="" type="checkbox"/> No	
Color (visual)	Green
TSS (%)	< 0.1
Radiation Screen (as needed)	Negative
Lab Signature	[Signature]

ACIDIC
2535

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC
28470 Clin Dr, Romulus, MI 48174. Telephone 734 948 1000. Fax 734 948 1002

Generator Waste Profile
Profile # 00902

GENERATOR INFORMATION

Name: [REDACTED]
Facility Address: [REDACTED]
City: [REDACTED]
Contact: [REDACTED]
Billing: [REDACTED]
Company: [REDACTED]
Address: [REDACTED]
City: [REDACTED]
Attention: [REDACTED]

WASTE INFORMATION

Name of Waste/Common Chemical Name:
SPENT ACIDIC CLEANING SOLUTION

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

COMBINE ASSORTED WASTE BATHS

USEPA / STATE WASTE IDENTIFICATION

- 1. This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- 2. Regulated by TSCA? Yes No (PCBs, etc.)
- 3. List ALL Applicable Waste Codes: D002 D006 D007 D008

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Tan/Yellow</u>	Suspended Solids <input type="checkbox"/> 0-1 % <input checked="" type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> < 0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other: <u>1.03</u>	<u>acceptable</u> <u>05.23.16</u>
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pH: NA < 2 2-4 4-6 6-8 8-10 10-12.5 > 12.5

Liquid Flash Point: < 78°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
<u>Surface Area</u>	<u>40</u>	<u>1</u>			
<u>Chlorine</u>	<u>20</u>	<u>1</u>			
<u>Water</u>	<u>99</u>	<u>5</u>			
<u>Solids</u>	<u>20</u>	<u>1</u>			

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

<input type="checkbox"/> Lab Analysis	<input checked="" type="checkbox"/> Generator Knowledge	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> TOTAL																																																																															
<table border="0"> <tr><td>Not Present</td><td>Concentration</td><td>Not Present</td><td>Concentration</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>ppm</td><td><input checked="" type="checkbox"/></td><td>ppm</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>ppm</td><td><input checked="" type="checkbox"/></td><td>ppm</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>ppm</td><td><input checked="" type="checkbox"/></td><td>ppm</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>ppm</td><td><input checked="" type="checkbox"/></td><td>ppm</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>ppm</td><td><input checked="" type="checkbox"/></td><td>ppm</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>ppm</td><td><input checked="" type="checkbox"/></td><td>ppm</td></tr> </table>	Not Present	Concentration	Not Present	Concentration	<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	<table border="0"> <tr><td>Aromatic Amine</td><td><input checked="" type="checkbox"/></td><td>ppm</td></tr> <tr><td>Pesticides</td><td><input checked="" type="checkbox"/></td><td>ppm</td></tr> <tr><td>Rodenticides</td><td><input checked="" type="checkbox"/></td><td>ppm</td></tr> <tr><td>Fungicides</td><td><input checked="" type="checkbox"/></td><td>ppm</td></tr> </table>	Aromatic Amine	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	<table border="0"> <tr><td>Arsenic (As)</td><td>D004</td><td><input checked="" type="checkbox"/></td><td>< 5 ppm</td><td>ppm</td></tr> <tr><td>Barium (Ba)</td><td>D005</td><td><input checked="" type="checkbox"/></td><td>< 100 ppm</td><td>ppm</td></tr> <tr><td>Cadmium (Cd)</td><td>D008</td><td><input checked="" type="checkbox"/></td><td>< 1 ppm</td><td>ppm</td></tr> <tr><td>Chromium (Cr)</td><td>D007</td><td><input checked="" type="checkbox"/></td><td>< 5 ppm</td><td>ppm</td></tr> <tr><td>Lead (Pb)</td><td>D008</td><td><input checked="" type="checkbox"/></td><td>< 5 ppm</td><td>ppm</td></tr> <tr><td>Mercury (Hg)</td><td>D009</td><td><input checked="" type="checkbox"/></td><td>< 0.2 ppm</td><td>ppm</td></tr> <tr><td>Selenium (Se)</td><td>D010</td><td><input checked="" type="checkbox"/></td><td>< 1 ppm</td><td>ppm</td></tr> <tr><td>Silver (Ag)</td><td>D011</td><td><input checked="" type="checkbox"/></td><td>< 5 ppm</td><td>ppm</td></tr> </table>	Arsenic (As)	D004	<input checked="" type="checkbox"/>	< 5 ppm	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	< 100 ppm	ppm	Cadmium (Cd)	D008	<input checked="" type="checkbox"/>	< 1 ppm	ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	< 5 ppm	ppm	Lead (Pb)	D008	<input checked="" type="checkbox"/>	< 5 ppm	ppm	Mercury (Hg)	D009	<input checked="" type="checkbox"/>	< 0.2 ppm	ppm	Selenium (Se)	D010	<input checked="" type="checkbox"/>	< 1 ppm	ppm	Silver (Ag)	D011	<input checked="" type="checkbox"/>	< 5 ppm	ppm
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Arsenic (As)	D004	<input checked="" type="checkbox"/>	< 5 ppm	ppm																																																																														
Barium (Ba)	D005	<input checked="" type="checkbox"/>	< 100 ppm	ppm																																																																														
Cadmium (Cd)	D008	<input checked="" type="checkbox"/>	< 1 ppm	ppm																																																																														
Chromium (Cr)	D007	<input checked="" type="checkbox"/>	< 5 ppm	ppm																																																																														
Lead (Pb)	D008	<input checked="" type="checkbox"/>	< 5 ppm	ppm																																																																														
Mercury (Hg)	D009	<input checked="" type="checkbox"/>	< 0.2 ppm	ppm																																																																														
Selenium (Se)	D010	<input checked="" type="checkbox"/>	< 1 ppm	ppm																																																																														
Silver (Ag)	D011	<input checked="" type="checkbox"/>	< 5 ppm	ppm																																																																														

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds 2
- DOT Shipping Name WASTE CORROSIVE LIQUID, ACIDIC ORGANIC SOL. Hazard Class 8 UNNA 3264
- PG III ERG _____ Hazardous Constituents for "h.o.s." SULFURIC & CHROMIC ACID
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Toies
- Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: 2400 gal yr. 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 the results of requirements.

Printed Name: _____

Generator's Signature: _____

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 201-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

1. SAMPLING METHOD 2. COLLECTION POINT

3. SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. 1 Preservation: Yes No

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

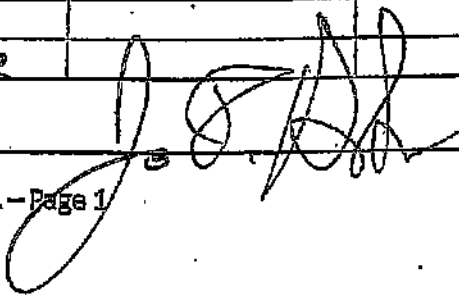
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

Date	5/12/16
Receiving ID#	Spec Acidic Clean Sol
Manifest# Line:	#1
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	Client

Compatible? (RT#)	(Yes) No	Barium	
PCEs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CG Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.6	Sodium Chloride	
Cyanides? (mg/L)	230	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.03	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes (No)		
Temperature	7 PF		
Conductivity	20.7 mS		
% Solids	1.3		
Turbidity	Yes (No)		
Color (visual)	Yellow		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

01

GENERATOR INFORMATION

Name: [REDACTED]

Facility: [REDACTED]

City: [REDACTED]

Contact: [REDACTED]

BILLING INFORMATION

Company: [REDACTED]

Address: [REDACTED]

City: [REDACTED]

Attention: [REDACTED]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

WASTE CYANIDE STRIP SOLUTION

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

STRIP COPPER

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste

2. Regulated by TSCA? Yes No (PCBs, etc.)

3. List ALL Applicable Waste Codes: D002, F007, F009

PHYSICAL CHARACTERISTICS OF WASTE

<p>Color:</p> <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>ORANGE</u>	<p>Suspended Solids</p> <input checked="" type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input type="checkbox"/> 1-3% <input type="checkbox"/> > 5%	<p>Layers:</p> <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	<p>Specific Gravity:</p> <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other <u>1.17</u>	<p><u>acceptable</u> <u>05.23.16</u></p>
--	---	--	--	--

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 - 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
STRIP AID (CONTAINS CN)	5	0			
WATER	82	78			
SOLIDS	15	1			

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge provide backup
 Lab Analysis Generator Knowledge TCLP TOTAL

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

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
 2. Reportable Quantity (RQ) in pounds _____
 3. DOT Shipping Name WASTE CYANIDE SOLUTION A.O.S. Hazard Class 6.1 UN/NA 1588
 PG I ERG _____ Hazardous Constituents for "n.o.s." D002, F007, F009
 4. Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
 5. Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: 10,000 gal or One Time
 8. Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

Printed Name _____

Generator's Sign _____

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

1. _____ 2. _____
 SAMPLING METHOD COLLECTION POINT

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

4. Sample No. 3 Preservation: Yes No

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

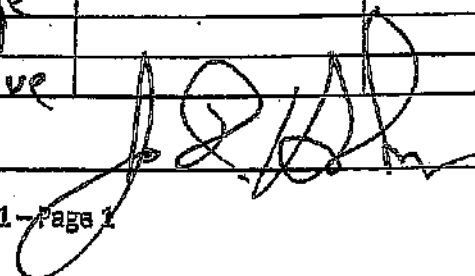
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/12/16
Receiving ID#	Waste Cyanide Strip Sol.
Manifest# Line:	3
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

Compatible? (RT#)	(Yes) 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.)	12.6	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.17	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	71°F		
Conductivity	156.5 mS		
% Solids	26.5		
Turbidity	Yes (No)		
Color (Visual)	Orange		
TSS (%)	5.0%		
Radiation Screen (as needed)	Negative		
Lab Signature			

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

9141

Generator Waste Profile

Profile # **00904**

GENERATOR INFORMATION

Name: _____

Facility Address: _____

City: _____

Contact: _____

BILLING INFORMATION

Company: _____

Address: _____

City: _____

Attention: _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:

5.0% ALKALINE CLEANING SOLUTION

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

CLEAN CRS PARTS PRIOR TO PLATING

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste

2. Regulated by TSCA? Yes No (PCBs, etc.)

3. List ALL Applicable Waste Codes: D002, D006, D007, D008

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Black</u>	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input checked="" type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other <u>1.13</u>	<u>acceptable</u> <u>05, 23, 16</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: 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
<u>Sodium Hydroxide</u>	<u>40</u>	<u>1</u>			
<u>WATER</u>	<u>99</u>	<u>9</u>			
<u>SOLIDS</u>	<u>30</u>	<u>1</u>			

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

<input type="checkbox"/> Lab Analysis	<input checked="" type="checkbox"/> Generator Knowledge	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> TOTAL
PCB	Not Present	Aromatic Amine	Not Present
Dioxins	Concentration _____ ppm	Pesticides	Concentration _____ ppm
Cyanides Reactive	Concentration _____ ppm	Rodenticides	Concentration _____ ppm
Cyanides Total	Concentration _____ ppm	Fungicides	Concentration _____ ppm
Sulfides Reactive	Concentration _____ ppm		
Sulfides Total	Concentration _____ ppm		
		Arsenic (As)	D004 <input checked="" type="checkbox"/> < 5 ppm
		Barium (Ba)	D005 <input checked="" type="checkbox"/> < 100 ppm
		Cadmium (Cd)	D006 <input checked="" type="checkbox"/> < 1 ppm
		Chromium (Cr)	D007 <input checked="" type="checkbox"/> < 6 ppm
		Lead (Pb)	D008 <input checked="" type="checkbox"/> < 5 ppm
		Mercury (Hg)	D009 <input checked="" type="checkbox"/> < 0.2 ppm
		Selenium (Se)	D010 <input checked="" type="checkbox"/> < 1 ppm
		Silver (Ag)	D011 <input checked="" type="checkbox"/> < 6 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-Possible 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 WASTE CORROSIVE LIQUID, BASIC INORGANIC Hazard Class 8 UNNA 3266
- PG III ERG _____ Hazardous Constituents for "n.o.s." SODIUM HYDROXIDE, CHROMIUM
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: 8-10,000 gal/yr 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 permit compliance requirements.

Printed Name: _____

Generator's Signature: _____

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

1. SAMPLING METHOD _____ 2. COLLECTION POINT _____

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

4. Sample No. 2 Preservation: Yes No

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

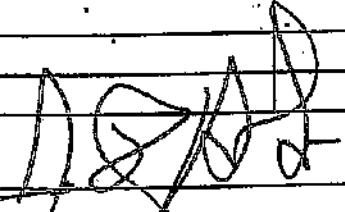
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/12/10
Receiving ID#	Spec A Relative Clean Col
Manifest#	Line: (Blood Sucker) 04
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

Compatible? (RT#)	(Yes) 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.)	12.9	Sodium Chloride	
Cyanides? (mg/L)	230	Bicarbonate	
Sulfides? (ppm)	< 250	Carbonate	
Specific Gravity	1.13	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	71°F		
Conductivity	100.7 us		
% Solids	12.4		
Turbidity	Yes (No)		
Color (visual)	lt. Brown		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

GENERATOR INFORMATION

Name: _____

Facility: _____

City: _____

Contact: _____

BILLING INFORMATION

Company Name: _____

Address: _____

City: _____

Attention: _____

WASTE INFORMATION

Name of Waste/Common Chemical Name: _____

SPELT ALKALINE CLEANING SOLUTION

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

CLEANING SOLUTION

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: *D002 D006 D007 D008*

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input checked="" type="checkbox"/> >5%	Layers: <input 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 Exact / Other <i>1.10</i>	<i>acceptable</i> <i>05.23.16</i>
--	--	---	---	--------------------------------------

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 - _____ 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
<i>Sodium Hydroxide</i>	<i>46</i>	<i>0</i>			
<i>Water</i>	<i>49</i>	<i>6</i>			
<i>Solids</i>	<i>35</i>	<i>6</i>			

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

Lab Analysis Generator Knowledge TCLP TOTAL

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

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

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

Radioactive Water Reactive Oxidizer Shock Sensitive Reactive (other) DOT Explosives

NIOSH Human-Positive Carcinogens NESHAP Wastes (Benzene, etc.) Biological None Apply

SHIPPING INFORMATION

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

2. Reportable Quantity (RQ) in pounds: _____

3. DOT Shipping Name WASTE HAZARDOUS LIQUID, H.O.S. Hazard Class 8 UN/NA 3266
3089

PG III ERG: _____ Hazardous Constituents for "n.o.s." Sodium Hydroxide

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

5. Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: 8500 gal or One Time

6. Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

Printed Name: _____

Generator's Signature: _____

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

1. SAMPLING METHOD _____ 2. COLLECTION POINT _____

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

4. Sample No. 4 Preservation: Yes No

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

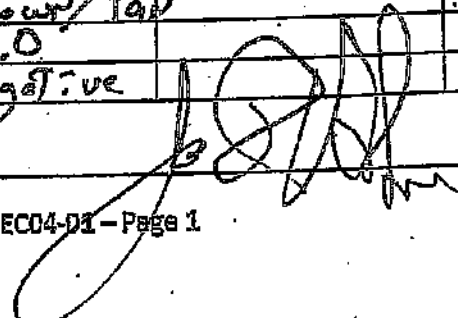
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/12/16
Receiving ID#	Spent Alkaline Clean Sol.
Manifest# Line:	#2
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	Client

Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?	<5	Calcium	
TDC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	11.9	Sodium Chloride	
Cyanides? (mg/L)	<30	Bicarbonate	
Sulfides? (ppm)	<200	Carbonate	
Specific Gravity	1.10	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	<input type="radio"/> Yes <input checked="" type="radio"/> No	Sulfate	
Oil In Sample	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Temperature	71°F		
Conductivity	62.5µS		
% Solids	11.1		
Turbidity	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Color (visual)	Brown/Tan		
TSS (%)	5.0		
Radiation Screen (as needed)	Negative		
Lab Signature			

Profile # 00906

GENERATOR INFORMATION

Name: [REDACTED]
 Facility: [REDACTED]
 City: [REDACTED]
 Cont: [REDACTED]
 BILLING INFORMATION: [REDACTED] SAM
 City: [REDACTED]
 Attention: [REDACTED]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Waste Acid

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

Sulfuric acid pickling of low to medium carbon steel alloys. The small quantities of various testing & process chemicals to consolidate waste

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: D001, D007, D006

PHYSICAL CHARACTERISTICS OF WASTE

<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other	Suspended Solids <input type="checkbox"/> 0-1% <input checked="" 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 type="checkbox"/> 0.8-1.0 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 1.3-1.4 Exact / Other	Acceptable Spillable
---	---	--	--	-------------------------

pH: NA 1-2 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: 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
<u>60 Liquid Acid</u>	<u>41%</u>	%	<u>Sulfuric Acid</u>	<u>65%</u>	%
<u>Water</u>	<u>59%</u>	%	<u>Pickling Solution 21112</u>	<u>0.5%</u>	%
<u>Other</u>	<u>0%</u>	%			
<u>Testing Solution</u>	<u>0.5%</u>	%			

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge provides backup Lab Analysis Generator Knowledge TCLP TOTAL

Metals	Present	Not Present	Concentration	ppm
Arsenic (As)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0004	ppm
Barium (Ba)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0005	ppm
Cadmium (Cd)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0006	ppm
Chromium (Cr)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0007	ppm
Lead (Pb)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0008	ppm
Mercury (Hg)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0009	ppm
Selenium (Se)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0010	ppm
Silver (Ag)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0011	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)
- NIOSH Human-Positive Carcinogens
- NESHAP Wastes (Benzene, etc.)
- Biological
- NOT Explosives
- None Apply

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds: 100 Data
- DOT Shipping Name: Waste Corrosive Liquids 002 Hazard Class: 8 UN/NA: 7140
- PG: II ERG: 129 Hazardous Constituents for "n.o.s.": Sulfuric Acid
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: 1700 - 2000 gal. 6. Anticipated Volume / Units per Year: 2000 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 contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material facts have been omitted or known to make the information misleading. I understand that there may be a liability 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 inaccuracies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample analysis.

Printed Name: [Redacted]

Generator's Signature: [Redacted]

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

1. SAMPLING METHOD 2. COLLECTION POINT

3. SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. _____ Preservation: Yes No

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

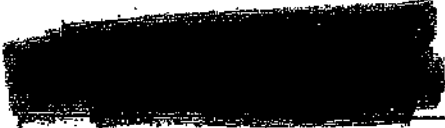
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time



phone 231.773.5998
toll-free 800.733.5998
fax 231.773.5387

Trace Analytical Laboratories, Inc.
2248 Black Creek Road
Muskegon, MI 49444-2673
info@trace-labs.com
www.trace-labs.com

SAMPLE SUMMARY



Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
T16D392-01	Waste Acid Michigan Wire	Aqueous	Client	04/26/16 14:10	04/26/16 14:00

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCS-D	Laboratory Control Sample Duplicate
MS	Matrix Spike
MS-D	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
RDL	Reporting Detection Limit
MCL	Maximum Contamination Limit
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.

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 www.trace-labs.com

ANALYTICAL RESULTS

Trace ID: T16D392-01 Date Collected: 04/28/16 14:10 Matrix: Aqueous
 Sample ID: Waste Acid Michigan Wire Date Received: 04/26/16 14:00

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	NOTES	MCL
METALS, TCLP							
<u>Analysis Method: EPA 8210B</u> Batch: T060755							
Arsenic	1.4 mg/L	0.30	1	04/28/16	kbc	04/29/16 dtm	5.0
Barium	<1.0 mg/L	1.0	1	04/28/16	kbc	04/29/16 dtm	100
Cadmium	3.4 mg/L	0.10	1	04/28/16	kbc	04/29/16 dtm	1.0
Chromium	660 mg/L	0.90	10	04/28/16	kbc	04/29/16 dtm	5.0
Lead	3.1 mg/L	0.50	1	04/28/16	kbc	04/29/16 dtm	5.0
Selenium	<0.60 mg/L	0.60	1	04/28/16	kbc	04/29/16 dtm	1.0
Silver	<0.10 mg/L	0.10	1	04/28/16	kbc	04/29/16 dtm	5.0
<u>Analysis Method: EPA 7870A</u> Batch: T060755							
Mercury	<0.010 mg/L	0.010	1	04/28/16	kbc	04/29/16 dtm	0.20
WET CHEMISTRY							
<u>Analysis Method: EPA 8040C</u> Batch: T060755							
Corrosivity-pH	0.420 pH Units		1	04/28/16	nws	04/29/16 nws	N

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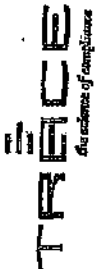
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CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
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Fax: 231-773-5996
Toll-free: 800-733-5998



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www.trace-labs.com

TRACE ID NO.
T16D892

Page 1 of 1

Logged By: *[Signature]* Checked By: *[Signature]* Yes () No (X)

Received on site: Yes (X) No ()

Preservative Checked: Yes () No (X)

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Toler:

Respiratory Equipment: MSHA TDLS Standard 30 Day 45 Day 90 Day 180 Day 365 Day Respirator Fit Tested

MEQs: Drinking Water Wipes Special

Matrix Key: S=Soils, W=Water, LW=Liquid Waste, A=Air, D=Drinking Water

ANALYSIS REQUESTED

PREPARATION	DATE	TIME	RECEIVED BY	DATE	TIME	RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
DR											
TRIP											
COIL											
SOIL											
WATER											
WIPES											
AIR											
DRINKING WATER											
REMARKS											

Project Name & #:

Client Address (if different):

City, State, Zip Code:

Phone: PO # 012-6031

CLIENT SAMPLE ID: WASTE Area Muskegon Water

DATE TAKEN: 4/16/07

TIME TAKEN: 2:40

Request for Analytical Services

Please sign in executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at <http://www.trace-labs.com/footer.ms.php>

SAMPLE LOG IN CHECKLIST

Trace ID #: FileD392 Date: 4-26-16 Package Description: Cooler Temperature: -21
Client Name: SET Time: 16:39 Logged in by: AM

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail

Tracking Number: Not Applicable
Tracking #: _____

COC Seals present and intact on cooler? No Yes Not Applicable
Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used
Slurry w/ crushed, cubed, or chip ice?
Multiple bags of ice around samples?
Ice Packs/ Blue ice:
No Coolant Present:

Cooler Temperature
Correction Factor: IR Thermometer -0.1 °C (Plastic or Glass - circle one)
Digital Stick Thermometer -0.2 °C
Temperature Blank: 9.7 °C (Use Digital Stick Thermometer)
Range of 3 samples: 11.2 °C (Use IR Thermometer)
Melt Water: N/A °C (Use Digital Stick Thermometer)
Ice still present upon receipt: Yes No N/A

	General			Comments
	Yes	No	NA	
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

EMD pH Test Strips Used:
 pH 0-2.6 Lot: HC663733 pH 11.0-13.0 Lot: HC547328
 Other: _____

Form 70-A.12
Effective 10/13/15

TRACE Analytical Laboratories, Inc.

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MATERIAL SAFETY DATA SHEET: CHEMQUEST INC., Middleville Mi, (269) 795-9877, Fax (269) 795-3481

Product Name: **# 80 Liquid Acid**

OSHA Date: **1/1/12**

Product Descrip: **Non-Foam Functional Acid**

SECTION I:	%BWT	Ingredients	CAS#	TLV(mg/m3)	PEL(mg/m3)
	< 85	Phosphoric Acid	7664-38-2	1	1
	BAL	MOISTURE	7732-18-6	NA	NA

Above information provided as required by the Federal Hazard Communication Standard (29 CFR 1910.1200). Unless otherwise noted, all components of this material are on the TSCA Inventory. Substance listed by IARC, NTP, or regulated by OSHA as a carcinogen would be highlighted if applicable.

SECTION II: Physical Data

Boiling Point (F):	>212	Odor:	ACIDIC	Solids % by wt.	75	Vapor Pressure (mmHg):	NA
Specific Gravity: (H2O=1):	1.585	pH:	1	Vapor Density:	NA	Solubility in Water % b/w:	100
Volatility by Volume:(excludes water)	NA	Color:	CLEAR	VOC Content:	0	Evaporation Rate (BuA=1):	NA

SECTION III: Fire & Explosion Data

Flash Point: **NA** Extinguish Media: **NA** Flammable Limits: LEL **NA** UEL **NA** Method Used: **NA**

Material is: **non-flammable.** Special Fire Fighting Proc. Fire fighters should use self-contained breathing apparatus and full protective clothing. Use water spray to cool fire exposed containers.

SECTION IV: Reactivity Data

Incompatibilities acids alkali oxidizers reducers Other:

Hazardous Decomposition Products: Carbon Monoxide Hazardous Polymerization: Will Not Occur

SECTION V: Spill, Leak & Disposal Procedures

SPILLS: Should be contained, collected & disposed of in a proper manner.

DISPOSAL: Must be disposed of in accordance with Federal, State & Local Regulations.

SECTION VI: Affects of Overexposure

Ingestion Will cause severe burns to mouth, esophagus, and stomach.

Eye Contact Can cause severe burns. Danger of permanent injury.

Skin Contact Can cause severe burns.

Primary Route of Entry
As a Mist

SECTION VII: First Aid Procedures

Eyes Flush with large amount of water 15 minutes. Obtain medical aid immediately.

Inhalation Remove victims to fresh air.

Skin Flush area with large amounts of water. OBTAIN MEDICAL AID.

Ingestion DO NOT INDUCE VOMIT. Obtain prompt medical aid.

INDUCE VOMIT: DO NOT INDUCE VOMIT:

SECTION VIII: Special Handling Information

Ventilation: Use in well ventilated areas
 Protective Clothing: Provide rubber gloves, boots, aprons & hard hat if in contact
 Respiratory: Use protection if misting of product is possible
 Eye Protection: Always use safety goggles and full face shield

HMS RATING SCALE

0 = MINIMAL
 1 = SLIGHT
 2 = MODERATE
 3 = SERIOUS
 4 = SEVERE

HEALTH: **3**
 FLAMMABILITY: **0**
 REACTIVITY: **1**
 PERSONAL PROTECTION: **D**

SECTION IX: TRANSPORTATION INFORMATION

Avoid outdoor storage, exposure to heat and direct sunlight. Store in closed & labeled containers. Protect containers from physical damage. Empty containers should be water flushed and cleaner prior to discard procedures.

Hazard Class: **Corrosive** Shipping Name: **Phosphoric Acid Solution, 6, UN 1805, PG III,**

Freezing Data: **Not Damaged by Freezing**

ISO 9001:2008 Quality Program

Material Safety Data Sheet



Sulfuric Acid

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Sulfuric Acid

OTHER/GENERIC NAMES: Battery acid

PRODUCT USE: Industrial

MANUFACTURER: General Chemical Corporation
90 East Halsey Road
Parsippany, NJ 07054

FOR MORE INFORMATION CALL: 973-515-1840
(Monday-Friday, 8:00am-4:30pm)

IN CASE OF EMERGENCY CALL: 800-631-8050
(24 Hours/Day, 7 Days/Week)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Sulfuric acid	7664-93-9	>51
Water	7732-18-5	Balance

Trace impurities and additional material names not listed above may appear in Section 15 of this MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

OSHA Hazard Communication Standard: *This product is considered hazardous under the OSHA Hazard Communication Standard.*

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Oily, colorless to slightly yellow, clear to turbid liquid. Odorless. Causes severe skin burns. Causes severe eye burns. Causes burns of the mouth, throat, and stomach.

POTENTIAL HEALTH HAZARDS

SKIN: Causes severe burns.

EYES: Liquid contact can cause irritation, corneal burns, and conjunctivitis. May result in severe or permanent injury. May cause blindness.

INHALATION: Inhalation of fumes or acid mist can cause irritation or corrosive burns to the upper respiratory system, including the nose, mouth and throat. May irritate the lungs. May cause pulmonary edema.

INGESTION: Causes burns of the mouth, throat and stomach. May be fatal if swallowed. Hazards are also applicable to dilute solutions.



MATERIAL SAFETY DATA SHEET
Sulfuric Acid

DELAYED EFFECTS: Erosion of teeth, lesions of the skin, tracheo-bronchitis, mouth inflammation, conjunctivitis and gastritis. IARC and NTP have classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen. This classification is for inorganic acid mists only and does not apply to sulfuric acid or sulfuric acid solutions. The basis for the classifications rests on several epidemiology studies which have several deficiencies. These studies did not account for exposure to other substances, some known to be animal or potential human carcinogens, social influences (smoking or alcohol consumption) and included small numbers of subjects. Based on the overall weight of evidence from all human and chronic animal studies, no definitive causal relationship between sulfuric acid mist exposure and respiratory tract cancer has been shown.

Ingredients found on one of the three OSHA designated carcinogen lists are listed below.

<u>INGREDIENT NAME</u>	<u>NTP STATUS</u>	<u>IARC STATUS</u>	<u>OSHA LIST</u>
Sulfuric acid	Known carcinogen – sulfuric acid mist	1-Known carcinogen – sulfuric acid mist	Not listed

4. FIRST AID MEASURES

SKIN: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing while washing. Get medical attention immediately.

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

INGESTION: If swallowed, do NOT induce vomiting. Give victim two glasses of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

ADVICE TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT:	Not applicable.
FLASH POINT METHOD:	Not applicable.
AUTOIGNITION TEMPERATURE:	Not applicable.
UPPER FLAME LIMIT (volume % in air):	Not applicable.
LOWER FLAME LIMIT (volume % in air):	Not applicable.
FLAME PROPAGATION RATE (solids):	Not applicable.
OSHA FLAMMABILITY CLASS:	Not flammable.

EXTINGUISHING MEDIA:

Water spray or fog may be used to knock down corrosive vapor cloud. Water may be applied to the sides of the containers exposed to flames provided the water does not come in contact with the tank contents.



MATERIAL SAFETY DATA SHEET Sulfuric Acid

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Flammable and potentially explosive hydrogen gas can be generated inside metal drums and storage tanks. Concentrated sulfuric acid can ignite combustible materials on contact.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:

Do not use solid water streams near ruptured tanks or spills of sulfuric acid. Acid reacts violently with water and can spatter acid onto personnel. Wear approved positive-pressure self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: (See section 8 for recommended personal protective equipment.)

Dilute small spills or leaks cautiously with plenty of water. Neutralize residue with sodium bicarbonate or other suitable neutralizing agent. When using carbonates for neutralization, adequate precautions should be taken to minimize hazards from carbon dioxide gas generation. No smoking in spill area. Major spills must be handled by a predetermined plan. Attempt to keep out of sewers.

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

7. HANDLING AND STORAGE

NORMAL HANDLING: (See section 8 for recommended personal protective equipment.)

Avoid contact with skin, eyes and clothing. Avoid breathing mist. Use appropriate personnel protective equipment. Do not add water to acid. When diluting, always add acid to water cautiously and with agitation. Use with adequate ventilation.

STORAGE RECOMMENDATIONS:

Protect from physical damage. Store in a cool, well-ventilated area away from combustibles and reactive chemicals. Keep out of sun and away from heat. Keep containers upright. No smoking in storage area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Sufficient to reduce vapor and acid mists to permissible levels. Packaging and unloading areas and open processing equipment may require mechanical exhaust systems. Corrosion-proof construction recommended. Closed ventilation systems (e.g. vapor hoods) are frequently used in the electronics industry.

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION: As a minimum, wear acid-resistant, preferably rubber, gloves and apron. Acid resistant boots, trousers and jacket may be used for increased protection.

EYE PROTECTION: Wear chemical safety goggles. Add a full faceshield for pouring liquids. Do not wear contact lenses.

MATERIAL SAFETY DATA SHEET
Sulfuric Acid

RESPIRATORY PROTECTION: Generally, none required. If misting conditions prevail, wear a NIOSH-approved acid-mist respirator.

ADDITIONAL RECOMMENDATIONS: Provide eyewash stations and quick-drench shower facilities in or near areas of use or handling.

EXPOSURE GUIDELINES

<u>INGREDIENT NAME</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER LIMIT</u>
Sulfuric acid	1 mg/m ³ – TWA 3 mg/m ³ – STEL	1 mg/m ³ – TWA	15 mg/m ³ – IDLH

- ¹ = Limit established by General Chemical Corporation.
- ² = Workplace Environmental Exposure Level (AIHA).
- ³ = Biological Exposure Index (ACGIH).

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:
None.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colorless to light yellow liquid	
PHYSICAL STATE:	Liquid	
MOLECULAR WEIGHT:	98.08 (H ₂ SO ₄)	
CHEMICAL FORMULA:	H ₂ SO ₄ (various concentrations) in water	
ODOR:	Odorless	
SPECIFIC GRAVITY (water = 1.0):	1.842	
SOLUBILITY IN WATER (weight %):	100%	
pH:	0.9 (1% solution)	
BOILING POINT:	~310C (94%)	
MELTING POINT:	~ -27C (94%)	
VAPOR PRESSURE:	<0.001 mm Hg @ 20C	
VAPOR DENSITY (air = 1.0):	Not applicable	
EVAPORATION RATE:	Not applicable	COMPARED TO: Not applicable
% VOLATILES:	Not applicable	
FLASH POINT:	Not applicable	

(Flash point method and additional flammability data are found in Section 5.)

10. STABILITY AND REACTIVITY

NORMALLY STABLE? (CONDITIONS TO AVOID):

Normally stable. Avoid temperatures greater than 300C: yields sulfur trioxide gas, which is toxic, corrosive, and an oxidizer.

INCOMPATIBILITIES:

Nitro compounds, carbides, dienes, alcohols (when heated): causes explosions.
 Oxidizing agents, such as chlorates and permanganates: causes fires and possible explosions.
 Allyl compounds and aldehydes: undergoes polymerization, possibly violent.
 Alkalies, amines, water, hydrated salts, carboxylic acid anhydrides, nitriles, olefinic organics, glycols, aqueous acids: causes strong exothermic reactions.



MATERIAL SAFETY DATA SHEET

Sulfuric Acid

Carbonates, cyanides, sulfides, sulfites, metals such as copper: yields toxic gases.

HAZARDOUS DECOMPOSITION PRODUCTS:

Sulfur trioxide gas.

HAZARDOUS POLYMERIZATION:

Will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:

LD₅₀ (oral-rat): 2140 mg/kg
LC₅₀ (inh-rat): 610 mg/m³/2 hr
LC₅₀ (inh-mouse): 320 mg/m³/2 hr

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:

IARC and NTP have classified "strong inorganic acid mists containing sulfuric acid" as known human carcinogens. The state of California has also listed "strong inorganic acid mists containing sulfuric acid" on the Proposition 65 list as a cancer causing agent. No definitive causal relationship between sulfuric acid mist exposure and respiratory cancer has been shown.

OTHER DATA:

None.

12. ECOLOGICAL INFORMATION

24.5 ppm/24 hr./bluegill/lethal/fresh water
42.5 ppm/48 hr./prawn/LC₅₀/salt water

13. DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if discarded? Yes

If yes, the RCRA ID number is: D002

OTHER DISPOSAL CONSIDERATIONS:

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

US DOT HAZARD CLASS: 8, PG II
US DOT ID NUMBER: UN1830
PROPER SHIPPING NAME: Sulfuric acid



MATERIAL SAFETY DATA SHEET
Sulfuric Acid

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)

TSCA INVENTORY STATUS: Listed on the TSCA Inventory.

OTHER TSCA ISSUES: None.

SARA TITLE III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

<u>INGREDIENT NAME</u>	<u>SARA/CERCLA RQ (lb)</u>	<u>SARA EHS TPQ (lb)</u>
Sulfuric acid	1000	1000

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: Immediate.

SARA 313 TOXIC CHEMICALS:

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

<u>INGREDIENT NAME</u>	<u>COMMENT</u>
Sulfuric acid	None

STATE RIGHT-TO-KNOW

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

<u>INGREDIENT NAME</u>	<u>WEIGHT %</u>	<u>COMMENT</u>
No ingredients listed in this section.		

ADDITIONAL REGULATORY INFORMATION:

"Strong Inorganic acid mists containing sulfuric acid" has been listed on California Proposition 65 as a cancer-causing agent.

WHMIS CLASSIFICATION (CANADA):

Listed on Canadian DSL and EU EINECS.

FOREIGN CHEMICAL CONTROL INVENTORY STATUS:

Listed on the Canadian DSL and EU EINECS.

16. OTHER INFORMATION

CURRENT ISSUE DATE: May, 2003



MATERIAL SAFETY DATA SHEET
Sulfuric Acid

PREVIOUS ISSUE DATE: November, 2001

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:
Addition of Prop 65 listing.

OTHER INFORMATION: None

L1011-NC

MATERIAL SAFETY DATA SHEET

NFPA Ratings (scale 0-4) Health=1 Fire = 0 Reactivity=0

SECTION I-----IDENTIFICATION-----

Effective Date: 9-1-93 Revised: : 01-01-11

Phone: (317)845-0045

Emergency Phone: PERS 800-633-8253

Name and Address:

CROWN TECHNOLOGY, INC.

7513 E. 96th Street

Indianapolis, IN 46256

Chemical Description: Not applicable

Synonyms: N/A

D.O.T. Hazard Class: NOIBN Class 55

D.O.T. Shipping Name: Cleaning Compound

Formula: See section II

Chemical Family: Acid Inhibitor

ID No: N/A

SECTION II-----INGREDIENTS-----

	CAS #	%	TLV (AGGHH)
Diethylthiourea	105-55-5	1-5	
Polyethylenepolyamine	68603-67-8	10-15	
Coco Amine	61791-14-8	1-5	

SECTION III-----PHYSICAL PROPERTIES-----

Boiling Point: >212 degrees F **Spec. Gravity:** 1.03-1.06

Percent Volatile (volume): < 1 **pH (undiluted):** 2.0-4.0

Vapor Pressure (mm Hg): N.A.

Solubility in water: Complete

Vapor Density (air = 1): < 1

Evaporation Rate (water = 1): 1.0

Appearance and odor: Amber Liquid with mild odor

SECTION IV-----FIRE AND EXPLOSION HAZARD-----

Flash Point (method used): None Known

Flammable Limits in Air (lower): N/A **(upper):** N/A

Extinguishing Media: Appropriate to surrounding fire

Special Firefighting Procedures: Firefighters should wear normal protective equipment. Self-contained breathing apparatus should be used in confined areas.

Unusual Fire or Explosion Hazards: None Known.

SECTION V-----HEALTH HAZARD DATA-----

A. TLV and Source:

B. Effects of a single overexposure

1. **Ingestion:** May be toxic. May cause severe irritation or burns of internal tissues.

2. **Inhalation:** May be irritating to internal tissues.

3. **Skin Contact:** May cause some irritation on prolonged exposure.

4. **Eye Contact:** Can cause irritation or burns.

C. Effects of Repeated Overexposures: other than short-term effects, none known.

D. Emergency and First Aid Procedures

1. **Ingestion:** Drink several glasses of water and induce vomiting. Consult a physician immediately.

2. **Inhalation:** Remove victim to fresh air and get

immediate medical attention. Give oxygen if congested.

3. **Skin Contact:** Wash with soap and water or plain water. If severe burns occur, get medical attention.

4. **Eye Contact:** Immediately flush with clear water for 15 minutes and get immediate medical attention.

E. **Other Health Information:** None Known.

SECTION VI-----PERSONNEL PROTECTION DATA-----

Respiratory Protection: Not normally required.

Ventilation: As required to keep airborne concentration below TLV.

Protective Gloves: Rubber or Plastic

Eye Protection: Goggles or face shield

Other Equipment: Eyewash station in area of use. Coveralls or rubber apron, rubber boots.

SECTION VII-----REACTIVITY DATA-----

A. **Product Stability:** Stable

Conditions to Avoid: None known.

B. **Incompatibility:** Strong oxidizing materials may cause a reaction.

C. **Hazardous Combustion or Decomposition Products:** Ammonia or sulfur oxides may be released if burned.

D. **Hazardous Polymerization:** Will not occur. Conditions to Avoid: None

SECTION VIII-----ENVIRONMENTAL DATA-----

A. **Spill or leak procedures:** Small spills may be flushed with water, preferably to a sanitary sewer or waste treatment facility. Larger spills should be contained and pumped into a suitable container.

B. **Waste Disposal:** Small quantities may be diluted with water and flushed to a sanitary sewer, however, obey all federal, state and local regulations.

C. **Other Environmental Data:** The product should not be discharged directly into streams or waterways without appropriate permits.

SECTION IX-----SPECIAL PRECAUTIONS-----

A. **Handling and Storage:** Store in a cool dry place. Keep containers tightly closed when not in use. Freezing point is approximately 30-32 degrees F.

B. **Other Precautions:** This product has been designed for use in specific types of pickling solutions and should be used only in accordance with the instructions provided by the technical representative servicing the facility.

Judgments as to the suitability of information herein for purchaser's purposes are purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Crown Technology, Inc. extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for the consequences of its use.

MATERIAL SAFETY DATA SHEET: CHEMQUEST INC., Middleville Mi, (269) 795-9877, Fax (269) 795-3481

OSHA Date:

Product Name: **POLY LUBE TL-48**
 Product Descrip:

SECTION I:	%BWT	Ingredients	CAS#	TLV(mg/m3)	PEL(mg/m3)
		No Hazardous By Osha Stds			
	<.5	AMMONIA, AQUA	1336-21-6		
		BIODEGRADABLE & NONPHOSPHATED	NON HAZ		
	<20	PROPYLENE GLYCOL BLOCK ETHOXY	NON HAZ		
	<10	SYNTHETIC FLUID-SURFACE ACTIVE AGENTS, ORGANIC	NON HAZ		
		WATER	7732-18-5	NA	NA

Above information provided as required by the Federal Hazard Communication Standard (29 CFR 1910.1200), Unless otherwise noted, all components of this material are on the TSCA Inventory. Substance listed by IARC, NTP, or regulated by OSHA as a carcinogen would be highlighted if applicable.

SECTION II: Physical Data

Boiling Point (F):	<input type="text" value="212+"/>	Odor:	<input type="text" value="MILD"/>	Solids % by wt.	<input type="text" value="<25"/>	Vapor Pressure (mmHg):	<input type="text" value="NA"/>
Specific Gravity: (H2O=1):	<input type="text" value="0.9934"/>	pH:	<input type="text" value="9.5"/>	Vapor Density:	<input type="text" value="NA"/>	Solubility in Water % b/w:	<input type="text" value="100"/>
Volatility by Volume:(excludes water)	<input type="text" value="NA"/>	Color:	<input type="text" value="AMBER"/>			Evaporation Rate (BuA=1)	<input type="text" value="NA"/>

SECTION III: Fire & Explosion Data

Flash Point: Extinguish Media: Flammable Limits: LEL: UEL: Method Used:
 Material is: Special Fire Fighting Proc. Fire fighters should use self-contained breathing apparatus and full protective clothing. Use water spray to cool fire exposed containers.

SECTION IV: Reactivity Data

Incompatibilities acids alkali oxidizers reducers
 Hazardous Decomposition Products: Carbon Monoxide Hazardous Polymerization: Will Not Occur

SECTION V: Spill, Leak & Disposal Procedures

SPILLS: Should be contained, collected & disposed of in a proper manner.
 DISPOSAL: Must be disposed of in accordance with Federal, State & Local Regulations.

SECTION VI: Effects of Overexposure

Ingestion Will cause irritation to mouth, esophagus, and stomach.
 Eye Contact Can cause irritation & stinging.
 Skin Contact Can cause dry skin.
 Primary Route of Entry: As a mist

SECTION VII: First Aid Procedures

Eyes Flush with large amount of water 15 minutes. Obtain medical aid if problems persist.
 Inhalation Remove victim to fresh air.
 Skin Flush area with large amounts of water. Neutralize with dilute vinegar or citrus juices.
 Ingestion INDUCE VOMIT. Drink large amounts of water or citrus juice. Obtain prompt medical aid.
 INDUCE VOMIT: DO NOT INDUCE VOMIT:

SECTION VIII: Special Handling Information

Ventilation: Use in well ventilated areas
 Protective Clothing: Provide rubber gloves, boots, aprons & hard hat if in contact
 Respiratory: Use protection if misting of product is possible
 Eye Protection: Always use safety goggles and full face shield

HMS RATING SCALE

0 = MINIMAL HEALTH:
 1 = SLIGHT FLAMMABILITY:
 2 = MODERATE REACTIVITY:
 3 = SERIOUS PERSONAL PROTECTION:
 4 = SEVERE

SECTION IX: TRANSPORTATION INFORMATION

Avoid outdoor storage, exposure to heat and direct sunlight. Store in closed & labeled containers. Protect containers from physical damage. Empty containers should be water flushed and cleaner prior to discard procedures.

Hazard Class: Shipping Name:

Century Chemical Corporation
7707 Lyndon, Detroit, MI 48238
MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: C-NEUTRALIZER 29L
PRODUCT 9021

HMS
Health: 2
Flammability: 0
Reactivity: 1

MANUFACTURER: Century Chemical Corporation
TELEPHONE: 313-340-0553 EMERGENCY: 800-424-9300
ADDRESS: 7707 Lyndon
Detroit, MI 48238

SECTION II - COMPOSITION, INFORMATION ON HAZARDOUS INGREDIENTS

<i>Ingredients</i>	<i>CAS</i>	<i>Percent</i>	<i>OSHA PEL</i>	<i>ACGIH TLV</i>	<i>SARA III</i>
Potassium Hydroxide	1310-58-3	< 28%	2 mg/m3	2 mg/m3	

SECTION III - HAZARDS IDENTIFICATION

May be harmful if swallowed. May cause skin and eye irritation. Eye protection and rubber gloves are recommended when handling this product.

SECTION IV - FIRST AID MEASURES

In case of eye or skin contact flush with large amounts of water for 15 minutes. If irritation persists, see physician. In case of ingestion, do not induce vomiting; drink large quantities of water to dilute product. Get medical attention at once.

SECTION V - FIRE FIGHTING MEASURES

FLASHPOINT: No Flash LEL: N/E UEL: N/E
GENERAL HAZARD: Does not propose a significant fire hazard.
EXTINGUISHING MEDIA: Water, Foam, Carbon Dioxide

SECTION VI - ACCIDENTAL RELEASE MEASURES

Notify the appropriate authorities immediately. Avoid uncontrolled release of this material to environment. Contain spilled liquid with sand, earth or absorbent material. Transfer to secure chemical waste container.

SECTION VII - HANDLING AND STORAGE

Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials and flame, heat or other source of ignition. Do not reuse empty containers without commercial cleaning.

Century Chemical Corporation
7707 Lyndon, Detroit, MI 48238
MATERIAL SAFETY DATA SHEET

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

EYE PROTECTION: Wear chemical resistant safety glasses, splash goggles or face shield.
SKIN PROTECTION: Wear chemical resistant rubber gloves.
RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid	SPECIFIC GRAVITY: 1.22 to 1.26
COLOR: Clear	pH: 12.5 to 13.5
ODOR: Non-Objectionable	BOILING POINT: 212° F
SOLUBILITY: 100%	VAPOR PRESSURE: 24 mm Hg @ 75° F

SECTION X - STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.
INCOMPATIBILITY: Strong oxidizing agents. Do not mix with other chemicals.
DECOMPOSITION: None.

SECTION XI - TOXICOLOGICAL INFORMATION

No data available.

SECTION XII - ECOLOGICAL INFORMATION

No data available.

SECTION XIII - DISPOSAL CONSIDERATIONS

Dispose of according to federal, state and/or local requirements and your company policy. Safety precautions listed on this MSDS also apply to empty containers.

SECTION XIV - TRANSPORT INFORMATION

DOT Hazard Class: Non-regulated

SECTION XV - REGULATORY INFORMATION

Not subject to the reporting requirements of SECTION 313 of SARA TITLE III.

SECTION XVI - OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. The stated MSDS is reliable to the best of the company's knowledge and believed accurate as of the date indicated. However, no representation, warranty or guarantee of any kind, expressed or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

Century Chemical Corporation

7707 Lyndon, Detroit, MI 48238

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Testing Solution #11
PRODUCT 8011

HIMS
Health: 2
Flammability: 0
Reactivity: 0

MANUFACTURER: Century Chemical Corporation
TELEPHONE: 313-340-0553 EMERGENCY: 800-424-9300
ADDRESS: 7707 Lyndon
Detroit, MI 48238

SECTION II - COMPOSITION, INFORMATION ON HAZARDOUS INGREDIENTS

<i>Ingredients</i>	<i>CAS</i>	<i>Percent</i>	<i>OSHA PEL</i>	<i>ACGIH TLV</i>	<i>SARA III</i>
Sodium Hydroxide 10N		< 2%			

SECTION III - HAZARDS IDENTIFICATION

May be harmful if swallowed. May cause skin and eye irritation. Eye protection and rubber gloves are recommended when handling this product.

SECTION IV - FIRST AID MEASURES

In case of eye or skin contact flush with large amounts of water for 15 minutes. If irritation persists, see physician. In case of ingestion, do not induce vomiting; drink large quantities of water to dilute product. Get medical attention at once.

SECTION V - FIRE FIGHTING MEASURES

FLASHPOINT: No Flash LEL: N/E UEL: N/E
GENERAL HAZARD: Does not propose a significant fire hazard.
EXTINGUISHING MEDIA: Water, Foam, Carbon Dioxide

SECTION VI - ACCIDENTAL RELEASE MEASURES

Notify the appropriate authorities immediately. Avoid uncontrolled release of this material to environment. Contain spilled liquid with sand, earth or absorbent material. Transfer to secure chemical waste container.

SECTION VII - HANDLING AND STORAGE

Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials and flame, heat or other source of ignition. Do not reuse empty containers without commercial cleaning.

Century Chemical Corporation
7707 Lyndon, Detroit, MI 48238
MATERIAL SAFETY DATA SHEET

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

EYE PROTECTION: Wear chemical resistant safety glasses, splash goggles or face shield.
SKIN PROTECTION: Wear chemical resistant rubber gloves.
RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid	SPECIFIC GRAVITY:	1.00 to 1.02
COLOR:	Clear	pH:	11.2 to 13.2
ODOR:	Non-Objectionable	BOILING POINT:	212° F
SOLUBILITY:	100%	VAPOR PRESSURE:	24 mm Hg @ 75° F

SECTION X - STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.
INCOMPATIBILITY: Strong oxidizing agents. Do not mix with other chemicals.
DECOMPOSITION: None.

SECTION XI - TOXICOLOGICAL INFORMATION

No data available.

SECTION XII - ECOLOGICAL INFORMATION

No data available.

SECTION XIII - DISPOSAL CONSIDERATIONS

Dispose of according to federal, state and/or local requirements and your company policy. Safety precautions listed on this MSDS also apply to empty containers.

SECTION XIV - TRANSPORT INFORMATION

DOT Hazard Class: Corrosive liquids, N.O.S., (Contains SODIUM HYDROXIDE), 8, UN1760, PGII

SECTION XV - REGULATORY INFORMATION

Not subject to the reporting requirements of SECTION 313 of SARA TITLE III.

SECTION XVI - OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. The stated MSDS is reliable to the best of the company's knowledge and believed accurate as of the date indicated. However, no representation, warranty or guarantee of any kind, expressed or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

Century Chemical Corporation

7707 Lyndon, Detroit, MI 48238

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Testing Solution #44
PRODUCT 8044

HMS
Health: 2
Flammability: 0
Reactivity: 0

MANUFACTURER: Century Chemical Corporation
TELEPHONE: 313-340-0553 EMERGENCY: 800-424-9300
ADDRESS: 7707 Lyndon
Detroit, MI 48238

SECTION II - COMPOSITION, INFORMATION ON HAZARDOUS INGREDIENTS

Ingredients	CAS	Percent	OSHA PEL	ACGIH TLV	SARA III
Sulfuric Acid	7664-93-9	< 52%	1 mg/m3	1 mg/m3	x

SECTION III - HAZARDS IDENTIFICATION

May be harmful if swallowed. May cause skin and eye irritation. Eye protection and rubber gloves are recommended when handling this product.

SECTION IV - FIRST AID MEASURES

In case of eye or skin contact flush with large amounts of water for 15 minutes. If irritation persists, see physician. In case of ingestion, do not induce vomiting; drink large quantities of water to dilute product. Get medical attention at once.

SECTION V - FIRE FIGHTING MEASURES

FLASHPOINT: No Flash LEL: N/E UEL: N/E
GENERAL HAZARD: Does not propose a significant fire hazard.
EXTINGUISHING MEDIA: Water, Foam, Carbon Dioxide

SECTION VI - ACCIDENTAL RELEASE MEASURES

Notify the appropriate authorities immediately. Avoid uncontrolled release of this material to environment. Contain spilled liquid with sand, earth or absorbent material. Transfer to secure chemical waste container.

SECTION VII - HANDLING AND STORAGE

Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials and flame, heat or other source of ignition. Do not reuse empty containers without commercial cleaning.

Century Chemical Corporation
7707 Lyndon, Detroit, MI 48238
MATERIAL SAFETY DATA SHEET

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

EYE PROTECTION: Wear chemical resistant safety glasses, splash goggles or face shield.
SKIN PROTECTION: Wear chemical resistant rubber gloves.
RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid	SPECIFIC GRAVITY:	1.40 to 1.50
COLOR:	Clear	pH:	to
ODOR:	Sulfur-Like	BOILING POINT:	212° F
SOLUBILITY:	100%	VAPOR PRESSURE:	24 mm Hg @ 75° F

SECTION X - STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.
INCOMPATIBILITY: Strong oxidizing agents. Do not mix with other chemicals.
DECOMPOSITION: None.

SECTION XI - TOXICOLOGICAL INFORMATION

No data available.

SECTION XII - ECOLOGICAL INFORMATION

No data available.

SECTION XIII - DISPOSAL CONSIDERATIONS

Dispose of according to federal, state and/or local requirements and your company policy. Safety precautions listed on this MSDS also apply to empty containers.

SECTION XIV - TRANSPORT INFORMATION

DOT Hazard Class: Corrosive liquids, N.O.S., (Contains SULFURIC ACID), 8, UN1760, PGII

SECTION XV - REGULATORY INFORMATION

Component chemicals are subject to the reporting requirements of SECTION 313 of SARA TITLE III. Please see MSDS Section II for exposure levels. The listed percent should be used to determine reporting requirements.

SECTION XVI - OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. The stated MSDS is reliable to the best of the company's knowledge and believed accurate as of the date indicated. However, no representation, warranty or guarantee of any kind, expressed or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC
 28470 Citrin Dr, Romulus, MI 48174. Telephone 734 846 1000. Fax 734 946 1002

Generator Waste Profile
Profile # 00907

GENERATOR INFORMATION

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

BILLING INFORMATION

SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

BOILER WASH WATER

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

BOILER WASH

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: D001

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input 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 _____	<i>acc. info</i> <i>05.25.16</i>
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pH: NA ≤ 2 2 - 4 4 - 6 6 - 8 8 - 10 10 - 12.5 ≥ 12.5

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

VOC CONCENTRATION - -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
<u>BOILER WASH WATER</u>	<u>99</u>	<u>100</u>			
<u>SEC-TA-LIC (SOS)</u>	<u>0</u>	<u>1</u>			

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

Lab Analysis Generator Knowledge TCLP TOTAL

PCB	<input type="checkbox"/> Not Present	_____ ppm	Aromatic Amine	<input type="checkbox"/> Not Present	_____ ppm	Arsenic (As)	D004	<input checked="checked" type="checkbox"/>	< 5	ppm	_____ ppm
Dioxins	<input type="checkbox"/>	_____ ppm	Pesticides	<input type="checkbox"/>	_____ ppm	Barium (Ba)	D005	<input checked="checked" type="checkbox"/>	< 100	ppm	_____ ppm
Cyanides Reactive	<input type="checkbox"/>	_____ ppm	Rodenticides	<input type="checkbox"/>	_____ ppm	Cadmium (Cd)	D006	<input checked="checked" type="checkbox"/>	< 1	ppm	_____ ppm
Cyanides Total	<input type="checkbox"/>	_____ ppm	Fungicides	<input type="checkbox"/>	_____ ppm	Chromium (Cr)	D007	<input type="checkbox"/>	< 6	ppm	<u>100</u> ppm
Sulfides Reactive	<input type="checkbox"/>	_____ ppm				Lead (Pb)	D008	<input checked="checked" type="checkbox"/>	< 5	ppm	_____ ppm
Sulfides Total	<input type="checkbox"/>	_____ ppm				Mercury (Hg)	D009	<input checked="checked" type="checkbox"/>	< 0.2	ppm	_____ ppm
						Selenium (Se)	D010	<input checked="checked" type="checkbox"/>	< 1	ppm	_____ ppm
						Silver (Ag)	D011	<input checked="checked" type="checkbox"/>	< 5	ppm	_____ ppm

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name WASTE HAZARDOUS LIQUID, N.O.S. Hazard Class 9 UN/NA 3082

- PG III ERG 171 Hazardous Constituents for "n.o.s." CHROMIUM
4. Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
5. Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: 110,000 GAL or One Time
6. Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

Printed Name: _____

Generator's Signature: _____

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATOR'S WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 281-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

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

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

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

ANALYTICAL RESULTS

Project:

Pace Project No:

Sample: RM1037 1

Lab ID: 60218093001

Collected: 04/28/16 08:38

Received: 04/29/16 18:11

Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+6							
pH at 25 Degrees C	8.4	Std. Units	0.10	1		05/06/16 16:30		H6
7196 Chromium, Hexavalent Diss	Analytical Method: EPA 7196							
Chromium, Hexavalent, Dissolved	ND	mg/L	50.0	5000		04/30/16 08:21	18540-29-9	D9

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ANALYTICAL RESULTS

Project: [REDACTED]

Pace Project No.: [REDACTED]

Sample: RM1531 2 Lab ID: 60216091002 Collected: 04/29/16 08:38 Received: 04/29/16 16:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Arsenic	392	ug/L	100	10	05/02/16 15:00	05/03/16 11:04	7440-38-2	
Barium	228	ug/L	100	10	05/02/16 15:00	05/03/16 11:04	7440-39-3	
Cadmium	ND	ug/L	100	20	05/02/16 15:00	05/03/16 11:22	7440-43-9	D3
Chromium	16700	ug/L	100	20	05/02/16 15:00	05/03/16 11:22	7440-47-3	
Copper	282000	ug/L	200	20	05/02/16 15:00	05/03/16 11:22	7440-50-8	
Iron	5870000	ug/L	1000	20	05/02/16 15:00	05/03/16 11:22	7439-89-8	
Lead	257	ug/L	100	20	05/02/16 15:00	05/03/16 11:22	7439-92-1	
Selenium	ND	ug/L	300	20	05/02/16 15:00	05/03/16 11:22	7782-48-2	D3
Silver	ND	ug/L	140	20	05/02/16 15:00	05/03/16 11:22	7440-22-4	D3
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	0.67	ug/L	0.20	1	05/03/16 09:45	05/03/16 13:09	7439-97-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: [REDACTED]
Pace Project No.: [REDACTED]

QC Batch: MERP710553 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60218091002

METHOD BLANK: 1750786 Matrix: Water
Associated Lab Samples: 60218091002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/03/16 12:40	

LABORATORY CONTROL SAMPLE: 1750787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	103	88-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1750788 1750789

Parameter	Units	60217372002 Result	MS		MSD		% Rec		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Mercury	ug/L	ND	5	9	5.2	5.4	104	107	70-130	3	20	

MATRIX SPIKE SAMPLE: 1750789

Parameter	Units	60218099002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.6	93	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: [REDACTED]
Pace Project N: [REDACTED]

QC Batch: MPRP/35748 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals Total
Associated Lab Samples: 60218091002

METHOD BLANK: 1750580 Matrix: Water
Associated Lab Samples: 60218091002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	05/03/16 10:37	
Barium	ug/L	ND	10.0	05/03/16 10:37	
Cadmium	ug/L	ND	5.0	05/03/16 10:37	
Chromium	ug/L	ND	5.0	05/03/16 10:37	
Copper	ug/L	ND	10.0	05/03/16 10:37	
Iron	ug/L	ND	50.0	05/03/16 10:37	
Lead	ug/L	ND	5.0	05/03/16 10:37	
Selenium	ug/L	ND	15.0	05/03/16 10:37	
Silver	ug/L	ND	7.0	05/03/16 10:37	

LABORATORY CONTROL SAMPLE: 1750581

Parameter	Units	Spike Conc.	LCS Result	LOS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	997	100	85-115	
Barium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1040	104	85-115	
Chromium	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10600	106	85-115	
Lead	ug/L	1000	1050	105	85-115	
Selenium	ug/L	1000	1050	105	85-115	
Silver	ug/L	500	509	102	85-115	

MATRIX SPIKE SAMPLE: 1750582

Parameter	Units	60218037002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	1000	1020	101	70-130	
Barium	ug/L	39.6	1000	1060	102	70-130	
Cadmium	ug/L	ND	1000	1040	103	70-130	
Chromium	ug/L	ND	1000	1030	103	70-130	
Copper	ug/L	0.040 mg/L	1000	1080	104	70-130	
Iron	ug/L	540	10000	11000	104	70-130	
Lead	ug/L	ND	1000	1020	102	70-130	
Selenium	ug/L	ND	1000	1050	105	70-130	
Silver	ug/L	ND	500	511	102	70-130	

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QUALITY CONTROL DATA

Project:

Pace Project No. [REDACTED]

MATRIX SPIKE SAMPLE: 1750583

Parameter	Units	60218089001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	13.2	1000	1030	101	70-130	
Barium	ug/L	ND	1000	1040	104	70-130	
Cadmium	ug/L	ND	1000	1040	104	70-130	
Chromium	ug/L	769	1000	1800	103	70-130	
Copper	ug/L	11000	1000	12100	110	70-130	
Iron	ug/L	193000	10000	205000	115	70-130	
Lead	ug/L	10.6	1000	1040	103	70-130	
Selenium	ug/L	ND	1000	1060	106	70-130	
Silver	ug/L	ND	500	509	102	70-130	

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QUALITY CONTROL DATA

Project:

Pace Project No:

QC Batch: VVE1761636 Analysis Method: SM 4500-H+B
 QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
 Associated Lab Samples: 60218091001

SAMPLE DUPLICATE: 1753021

Parameter	Units	60218091001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.4	9.4	0	5 HB	

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QUALITY CONTROL DATA

Project: [REDACTED]
Pace #: [REDACTED]

QC Batch: WETA/35263 Analysis Method: EPA 7196
QC Batch Method: EPA 7196 Analysis Description: 7196 Chromium, Hexavalent Diss
Associated Lab Samples: 80218091001

METHOD BLANK: 1750062 Matrix: Water
Associated Lab Samples: 60218091001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent, Dissolved	mg/L	ND	0.010	04/30/16 08:20	

LABORATORY CONTROL SAMPLE: 1750063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent, Dissolved	mg/L	.1	0.10	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1750064 1750065

Parameter	Units	60218091001		1750065		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chromium, Hexavalent, Dissolved	mg/L	ND	500	500	505	480	98	89	85-115	9	20

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ICC-TA-40

Safety Data Sheet

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

Date of issue: 04/07/2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : ICC-TA-40
Product code : 75180

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Interstate Chemical Company, Inc.
2797 Freedland Road
Hermitage, PA 16148-0210 - United States
T 800-422-2436 - F (724) 509-1015
herm-eh&e@interstatechemical.com - www.interstatechemical.com

1.4. Emergency telephone number

Emergency number : For 24-Hour Emergency Information Call Chemtrec: +1 (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Corr. 1A H314

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS06

Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US)

: P260 - Do not breathe mist, spray, vapors
P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face 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
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a doctor or poison center
P321 - Specific treatment (see a doctor or poison center on this label)
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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Name	Product Identifier	%	Classification (GHS-US)
edetic acid	(CAS No) 60-07-4	30 - 50	Not classified
ammonium hydroxide, solution, 25%<=conc<35%	(CAS No) 1335-21-6	20 - 40	Skin Corr. 1A, H314 Aquatic Acute 1, H400
DEIONIZED WATER	(CAS No) 7732-18-5	20 - 40	Not classified

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
- First-aid measures after Ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Reactivity : Thermal decomposition generates : Corrosive vapors.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment. Including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, spray, vapors. Avoid contact during pregnancy/while nursing.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling.

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

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ICC-TA-40

ACGIH : Not applicable

OSHA : Not applicable

ammonium hydroxide, solution, 25%≤conc<35% (1336-21-6)

ACGIH : ACGIH TWA (ppm) : 25 ppm

ACGIH : ACGIH STEL (ppm) : 25 ppm

OSHA : Not applicable

edetic acid (60-00-4)

ACGIH : Not applicable

OSHA : Not applicable

DEIONIZED WATER (7732-18-6)

ACGIH : Not applicable

OSHA : Not applicable

8.2. Exposure controls

- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or face shield.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Wear appropriate mask.
- Other information : 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 : Colorless to pale yellow liquid.
- Color : Colourless to light yellow
- Odor : Ammonia odour
- Odor threshold : No data available
- pH : 9 - 9.5
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : No data available
- Freezing point : -6 °F
- Boiling point : 219 °F
- Flash point : None
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapor pressure : 17 mm Hg
- Relative vapor density at 20 °C : No data available

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Relative density	: 1.17 (water=1 at 60°F)
Specific gravity / density	: 9.75 lb/gal (at 60°F)
Solubility	: Water: Solubility in water of component(s) of the mixture : * : * : 0.05 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapors.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
edetic acid (80-00-4)	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 9 - 9.5
Serious eye damage/irritation	: Not classified pH: 9 - 9.5
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

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ammonium hydroxide, solution, 25% <= conc < 35% (1336-21-6)	
LC50 fish 1	0.16 - 1.1 mg/l (96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>); Solution >=50%)
LC50 other aquatic organisms 1	1 - 10 mg/l (96 h; Solution >=50%)
LC50 fish 2	0.75 - 3.4 mg/l (96 h; <i>Pimphales promelas</i> ; Solution >=50%)
TLM fish 1	47 ppm (48 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>); Cool water)
TLM fish 2	34 ppm (48 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>); Warm water)
Threshold limit other aquatic organisms 1	1 - 10,96 h; Solution >=50%
edetic acid (60-00-4)	
LC50 fish 1	632 mg/l (96 h; <i>Lepomis macrochirus</i> ; Hard water)
EC50 Daphnia 1	480 - 790 mg/l (24 h; <i>Daphnia magna</i>)
LC50 fish 2	159 mg/l (96 h; <i>Lepomis macrochirus</i>)
Threshold limit algae 1	48.4 mg/l (<i>Selenastrum capricornutum</i> ; Measured concentration)
Threshold limit algae 2	11 mg/l (<i>Scenedesmus quadricauda</i> ; Growth)

12.2. Persistence and degradability

ICC-TA-40	
Persistence and degradability	Not established.

ammonium hydroxide, solution, 25% <= conc < 35% (1336-21-6)	
Persistence and degradability	Readily biodegradable in water. Ozonation in water. Biodegradable in the soil. No (test) data on mobility of the components available. Ozonation in the air.
edetic acid (60-00-4)	
Persistence and degradability	Not readily biodegradable in water. Ozonation in the air. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.01 g O ₂ /g substance
Chemical oxygen demand (COD)	0.65 g O ₂ /g substance
ThOD	1.09 g O ₂ /g substance
BOD (% of ThOD)	0.0091 % ThOD

12.3. Bioaccumulative potential

ICC-TA-40	
Bioaccumulative potential	Not established.

ammonium hydroxide, solution, 25% <= conc < 35% (1336-21-6)	
Log Pow	-1.3
Bioaccumulative potential	Bioaccumulation: not applicable.
edetic acid (60-00-4)	
BCF fish 1	0.8 - 1.9 (<i>Lepomis macrochirus</i> ; Chronic)
BCF other aquatic organisms 1	19 (QSAR)
Log Pow	-5.01 - -3.34 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer	:
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to an approved hazardous waste plant and/or drum reconditioner.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT
Not regulated for transport

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Additional Information

Other information

No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory Information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

EU-Regulations

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

SECTION 16: Other information

Other information

None.

Full text of H-phrases:

Aquatic Acute 1

Skin Corr. 1A

H314

H400

Hazardous to the aquatic environment - Acute Hazard Category 1

Skin corrosion/irritation Category 1A

Causes severe skin burns and eye damage

Very toxic to aquatic life

NFPA health hazard

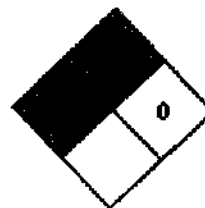
2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity

0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard

Physical : 0 Minimal Hazard

SDS US (GHS HazCom 2012)

Interstate Chemical Company, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # 00909

GENERATOR INFORMATION

Name: _____
Facility Address: _____
City: _____
Contact: _____

BILLING INFORMATION

SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Sodium Hypochlorite

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

XS UNUSED MATERIAL

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: D002

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other _____	<i>acceptable</i> <i>05.27.16</i>
--	---	---	--	--------------------------------------

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 - 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
<u>Sodium Hypochlorite (see attached MSDS)</u>	_____	_____ %	_____	_____	_____ %
_____	_____	_____ %	_____	_____	_____ %
_____	_____	_____ %	_____	_____	_____ %
_____	_____	_____ %	_____	_____	_____ %
_____	_____	_____ %	_____	_____	_____ %

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

Lab Analysis Generator Knowledge TCLP TOTAL

	Not Present	Concentration		Not Present	Concentration				
PCB	<input checked="" type="checkbox"/>	_____ ppm	Aromatic Amines	<input checked="" type="checkbox"/>	_____ ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	< 5 ppm
Dioxins	<input type="checkbox"/>	_____ ppm	Pesticides	<input checked="" type="checkbox"/>	_____ ppm	Barium (Ba)	D005	<input type="checkbox"/>	< 100 ppm
Cyanides Reactive	<input type="checkbox"/>	_____ ppm	Rodenticides	<input checked="" type="checkbox"/>	_____ ppm	Cadmium (Cd)	D006	<input type="checkbox"/>	< 1 ppm
Cyanides Total	<input type="checkbox"/>	_____ ppm	Fungicides	<input checked="" type="checkbox"/>	_____ ppm	Chromium (Cr)	D007	<input type="checkbox"/>	< 5 ppm
Sulfides Reactive	<input type="checkbox"/>	_____ ppm				Lead (Pb)	D008	<input type="checkbox"/>	< 5 ppm
Sulfides Total	<input type="checkbox"/>	_____ ppm				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 RQ, UN 1791, Waste Hypochlorite Solution Hazard Class 8 UN 1791
- PG III ERG 154 Hazardous Constituents for "n.o.s." sodium hypochlorite
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: 1 6. Anticipated Volume / Units per Year: VARIES or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

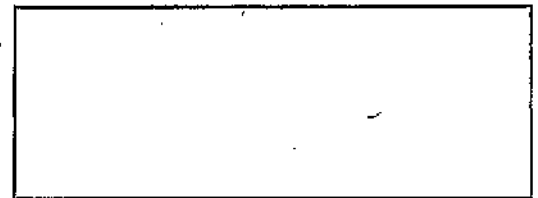
I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained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

Printed Name: _____

Generator's Sig: _____

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

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



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

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

SAFETY DATA SHEET

1. Identification

Product identifier Sodium Hypochlorite Solution 5-17%
Other means of identification Not available.
Recommended use Swimming pool chlorinator, hard surface cleaner, mildicide, Water treatment chemical, Biocides, bleach solutions and bleach fixer solutions
Recommended restrictions None known.
Manufacturer/Importer/Supplier/Distributor information

2. Hazard(s) Identification

Physical hazards Corrosive to metals Category 1
Health hazards Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1
Specific target organ toxicity, single exposure Category 3 respiratory tract irritation
Environmental hazards Hazardous to the aquatic environment, acute hazard Category 1
Hazardous to the aquatic environment, long-term hazard Category 2
OSHA defined hazards Not classified.

Label elements



Signal word Danger
Hazard statement May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statement
Prevention Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep only in original container. Avoid release to the environment.
Response If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.
Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information

Contact with acids liberates toxic gas.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Sodium hypochlorite	7681-52-9	5-17
Sodium hydroxide	1310-73-2	0.3-5

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately. Wash contaminated clothing before reuse. Call a physician or poison control center immediately.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. With eye exposure, continue flushing during transport to hospital.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire. Do not use dry extinguishing media that contains ammonium compounds.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb spillage to prevent material damage. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

Environmental precautions

Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases.

7. Handling and storage

Precautions for safe handling

Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Observe good industrial hygiene practices. Do not apply heat or direct sunlight. Temperature and product concentration affect product quality and decomposition rates.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and well-ventilated place. Store in a corrosive resistant container. Consult container manufacturer for additional guidance. Store away from and do not mix with incompatible materials such as acids, oxidizers, organics, reducing agents, and all metals except titanium.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m ³

US. ACGIH Threshold Limit Values

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Sodium hypochlorite (CAS 7681-52-9)	STEL	2 mg/m ³

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing. Reports indicate that sodium hypochlorite can react with various fabrics usually increasing with concentration. Reactions vary significantly depending on strength of chemical, material, fabric treatment and color of dyes. FRC treated cotton has a stronger response than plain cotton. Poly blend fabrics and meta aramid fabric have a weaker response than natural fibers. Contact the Personal Protective Equipment manufacturer for specific information about their products.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.

Color

Not available.

Odor

Pungent.

Odor threshold

0.9 mg/m³

pH

12 - 14 (25 G/100 F)

Melting point/freezing point	-4 °F (-20 °C) (7% solution)
Initial boiling point and boiling range	Not available.
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not applicable
Flammability limit - upper (%)	Not applicable
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	12 mm Hg (20°C/68°F)
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Completely miscible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	Not applicable
Molecular formula	NaOCl
Molecular weight	74.5 g/mol

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Avoid ultraviolet (UV) light sources. Excessive heat. Reacts violently with strong acids. Acid contact will produce chlorine gas. Amine contact will produce chloramines.
Incompatible materials	Strong oxidizing agents, Acids, Metals, Organic compounds, Ammonia.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.
Inhalation	Vapors and spray mist may irritate throat and respiratory system and cause coughing.
Skin contact	Causes skin burns.
Eye contact	Causes eye burns.
Symptoms related to the physical, chemical and toxicological characteristics	Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity	Occupational exposure to the substance or mixture may cause adverse effects.
-----------------------	--

Product	Species	Test Results
Sodium Hypochlorite Solution 5-17% (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	> 2 g/kg
Oral		
LD50	Rat	3 - 5 g/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	
Respiratory sensitization	No data available.
Skin sensitization	No data available.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Sodium hypochlorite (CAS 7681-52-9)	3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	No data available.
Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	Not classified, however droplets of the product may be aspirated into the lungs through ingestion or vomiting and may cause a serious chemical pneumonia.
Chronic effects	Prolonged or repeated overexposure causes lung damage.
Further information	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Product	Species	Test Results
Sodium Hypochlorite Solution 5-17% (CAS Mixture)		
Aquatic		
Crustacea	LC50 Daphnia	1 mg/l
Fish	LC50 Bluegill (Lepomis macrochirus)	0.6 mg/l, 48 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available for this product.
Mobility in soil	Not available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number UN1791
UN proper shipping name Hypochlorite solutions
Transport hazard class(es)
 Class 8
 Subsidiary risk -
Packing group III
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions IB3, N34, T4, TP2, TP24
Packaging exceptions 154
Packaging non bulk 203
Packaging bulk 241

IATA

UN number UN1791
UN proper shipping name Hypochlorite solution
Transport hazard class(es)
 Class 8
 Subsidiary risk -
 Label(s) 8
Packing group III
Environmental hazards Yes
ERG Code 8L
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1791
UN proper shipping name HYPOCHLORITE SOLUTION
Transport hazard class(es)
 Class 8
 Subsidiary risk -
 Label(s) 8
Packing group III
Environmental hazards
 Marine pollutant Yes
EmS F-A, S-B
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US, OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium hydroxide (CAS 1310-73-2) LISTED

Sodium hypochlorite (CAS 7681-52-9) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes**SARA 313 (TRI reporting)**
Not regulated.**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**US state regulations****US. Massachusetts RTK - Substance List**

Sodium hydroxide (CAS 1310-73-2)

Sodium hypochlorite (CAS 7681-52-9)

US. New Jersey Worker and Community Right-to-Know Act

Sodium hydroxide (CAS 1310-73-2)

Sodium hypochlorite (CAS 7681-52-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium hydroxide (CAS 1310-73-2)

Sodium hypochlorite (CAS 7681-52-9)

US. Rhode Island RTK

Sodium hydroxide (CAS 1310-73-2)

Sodium hypochlorite (CAS 7681-52-9)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerio Rico	Toxic Substances Control Act (TSCA) inventory	Yes

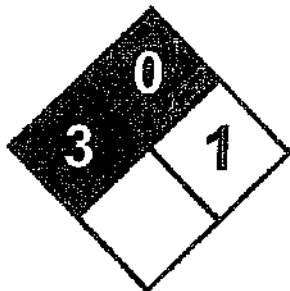
*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 29-April-2014
Revision date -
Version # 01

NFPA Ratings



List of abbreviations

LD50: Lethal Dose, 50%.
LC50: Lethal Concentration, 50%.
EC50: Effective concentration, 50%.
TWA: Time weighted average.

References

EPA: AQUIRE database
HSDB® - Hazardous Substances Data Bank
US. IARC Monographs on Occupational Exposures to Chemical Agents
IARC Monographs. Overall Evaluation of Carcinogenicity
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



290 South Wagner Road
 Ann Arbor, Michigan 48103
 Tel. 734/995-0995 Fax. 734/995-3731
 Michigan Laboratory ID: 9604
 Wisconsin Laboratory ID: 998321720

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: 6/29/16
 ATS SRF: 0601161

Sample Identification: May 2016

Sample Date:	6/1/16	QC Batch Number:	QCORG0605161-E
Laboratory Receipt Date:	6/1/16		B6F0026
Preparation Date:	6/6/16, 6/6/16	Sample Matrix:	Wastewater
Analysis Date:	6/22/16, 6/8/16	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	0.00000000009	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	100.2	(50 - 150)
Nitrobenzene-d5	EPA 8270 Mod	91.6	(50 - 150)
p-Terphenyl-d14	EPA 8270 Mod	61.8	(50 - 150)
Tetrachloro-m-xylene (TCMX)	EPA 8270 Mod	84.7	(50 - 150)
13C-1,2,3,4,7,8-HxCDD	EPA 1613B	99.4	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	EPA 1613B	93.1	(28 - 130)
13C-1,2,3,7,8,9-HxCDD	EPA 1613B	99.9	(32 - 141)
13C-OCDF	EPA 1613B	79.4	(17 - 157)
13C-OCDD	EPA 1613B	79.2	(17 - 157)
13C-2,3,7,8-TCDD	EPA 1613B	106	(25 - 164)

Comments:

USEPA Analysis 1613B performed by Vista Analytical.