Environmental GEO-Technologies, LLC

May 29, 2015

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 eighteenth Monthly Report in conformance with the requirements of its two EPA UIC permits (#s MI-163-1W-C010 & MI-163-1W-C011).

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

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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

Sincerely,

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

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

att.

rjp052915/EGTEPAMonthlyReport-April 2015

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2015

CURRENT REPORTING MONTH APRIL

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

NOVEMBER 2013

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
MI-163-1W-C010 , Well #1-12			
Current Month	139,794	0	139,794
Since facility first injected			1,404,493
MI-163-1W-C011, Well #2-12			
Current Month	120,216	0	120,216
Since facility first injected			1,195,931
		Lifetime Combined	2,600,424

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 18

18 lifetime number of months of injection × 43,830 minutes/month
= 788,940 minutes of injection

Lifetime combined injected volume 2,600,424 × 788,940 minutes of injection
= 3.3 gpm average injection rate

WELL 1 DATA

Well 01 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differentail Pressure (PSIG)	Max Differential Pressure (PSIG)
4/1/2015	-9.9	709.7	21.5	23.5	191.8	1033.4	6.4	11.9	0.0	113.0	186.9	377.6
4/2/2015	-9.9	710.2	21.2	23.4	234.5	996.6	3.6	16.6	0.0	112.0	182.7	370.7
4/3/2015	-5.1	719.1	21.7	23.3	260.6	984.2	0.7	7.4	0.0	78.0	176.6	388.8
4/4/2015	-4.5	-3.4	22.9	23.2	280.4	292.7	1.4	1.8	0.0	0.0	284.2	296.7
4/5/2015	-4.1	-3.2	22.9	23.1	292.6	294.0	1.8	2.0	0.0	0.0	296.0	297.7
4/6/2015	-9.9	703.0	21.7	23.6	196.5	998.8	1.6	4.1	0.0	122.0	173.0	442.5
4/7/2015	-10.0	704.4	21.7	23.4	224.1	963.6	-1.2	3.6	0.0	74.0	180.2	375.0
4/8/2015	-5.6	-3.6	23.2	23.4	241.3	246.5	0.2	4.4	0.0	0.0	246.2	251.0
4/9/2015	-4.4	-3.1	23.2	23.4	245.2	245.8	2.3	2.5	0.0	0.0	248.8	250.0
4/10/2015	-6.2	24.6	21.5	23.4	231.6	655.5	0.6	6.8	0.0	0.0	234.1	656.3
4/11/2015	-1.4	-0.5	20.4	22.6	412.0	906.5	5.2	6.5	0.0	0.0	412.8	907.0
4/12/2015	-1.6	-0.5	22.3	22.6	428.6	430.7	6.0	6.4	0.0	0.0	429.2	432.0
4/13/2015	-9.9	703.7	21.3	22.6	418.8	1066.3	0.9	6.1	0.0	105.0	344.6	623.2
4/14/2015	-9.9	708.6	21.2	23.4	291.1	1200.3	0.4	2.4	0.0	117.0	277.4	648.2
4/15/2015	-8.6	0.4	21.8	22.7	406.4	605.7	0.9	4.7	0.0	0.0	413.6	612.6
4/16/2015	-0.8	0.3	22.3	22.6	443.8	449.5	2.9	9.4	0.0	0.0	443.7	450.2
4/17/2015	-0.7	0.2	22.3	22.6	440.6	443.9	2.6	5.4	0.0	0.0	440.5	444.4
4/18/2015	-0.7	0.2	22.3	22.6	437.5	440.7	5.1	5.4	0.0	0.0	437.4	441.2
4/19/2015	-0.7	0.3	22.3	22.6	435.2	437.6	4.9	5.1	0.0	0.0	435.1	438.1
4/20/2015	-0.3	0.6	22.3	22.6	433.4	435.8	4.1	7.8	0.0	0.0	433.1	435.6
4/21/2015	-0.4	0.7	22.3	22.6	431.1	433.5	4.1	9.1	0.0	0.0	430.7	433.7
4/22/2015	-0.2	0.6	22.3	22.5	428.8	431.2	4.9	9.4	0.0	0.0	428.5	431.3
4/23/2015	-9.7	722.8	20.8	22.5	427.4	1112.2	4.6	7.2	0.0	154.0	292.0	602.0
4/24/2015	-9.9	704.1	20.8	23.1	318.2	1249.7	4.6	9.0	0.0	140.0	271.8	706.3
4/25/2015	-8.9	-3.9	22.4	22.7	417.9	439.4	5.3	5.3	0.0	0.0	421.9	448.2
4/26/2015	-4.6	-2.6	22.4	22.7	413.8	418.1	5.3	5.4	0.0	0.0	416.5	422.5
4/27/2015	-3.4	-2.1	22.5	22.7	411.1	413.9	5.3	5.6	0.0	0.0	413.5	417.2
4/28/2015	-9.8	714.2	20.9	22.6	409.9	1206.1	5.4	8.5	0.0	139.0	272.6	653.7
4/29/2015	-6.5	710.8	21.0	22.6	437.2	1121.7	5.6	8.3	0.0	126.0	275.5	605.6
4/30/2015	-1.9	2.0	21.9	22.2	557.6	561.3	6.0	7.5	0.0	0.0	555.6	562.7

DATA DESCRIPTION

April 2015

This month's data is reported from the report generator. The data recorded from the foundation fieldbus requires manual observation by the deep well operators, who have been manually checking flow rate by displacement of tank volume over time. This is used to generate a multiplier for the purposes of reporting flow rates. An outside programmer was hired to troubleshoot and reset the foundation fieldbus parameters.

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

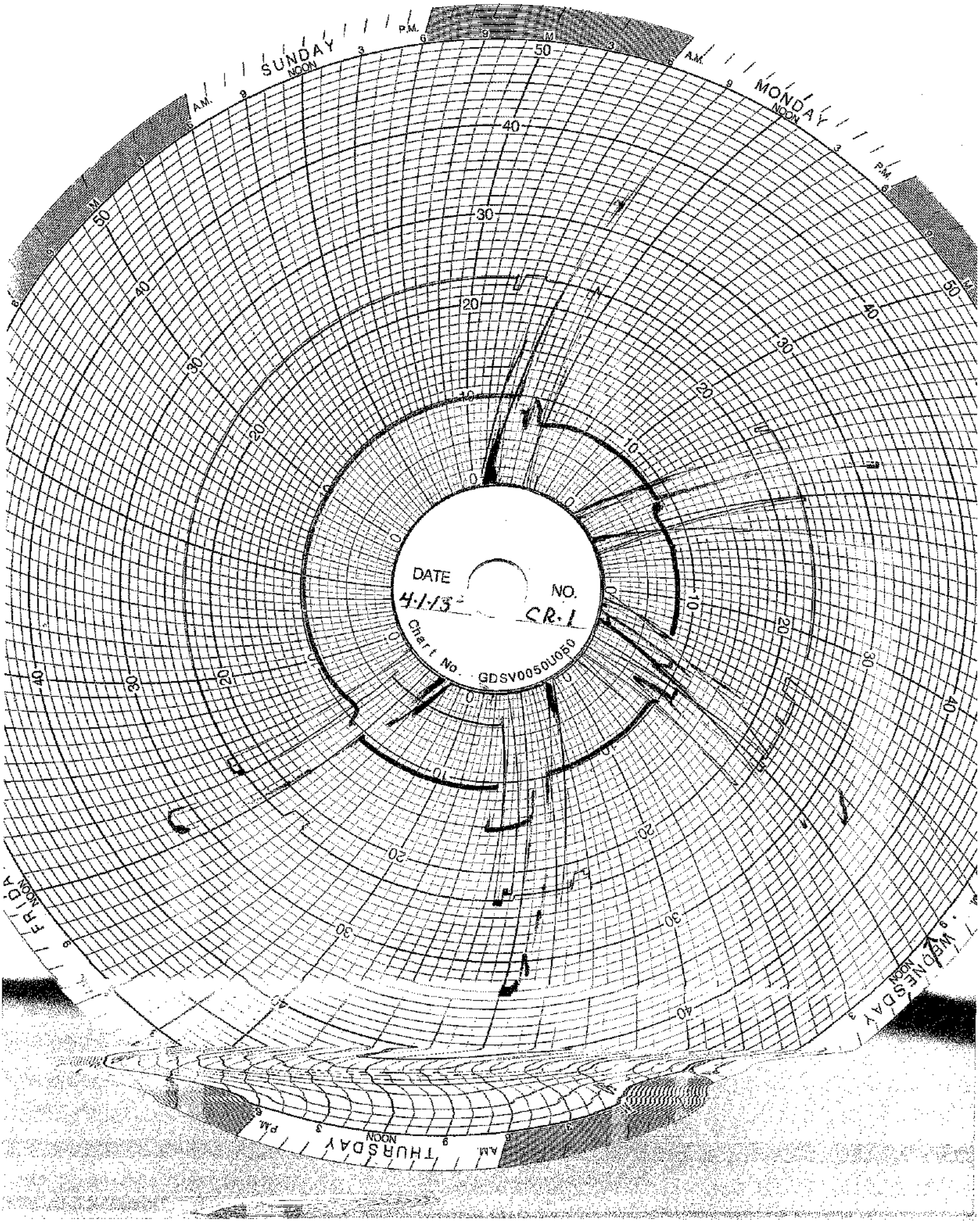
Red Pen – Well 1 Monthly Volume

Channel #3

Green Pen – Well 2 Monthly Volume

Channel #4

Black Pen - Temperature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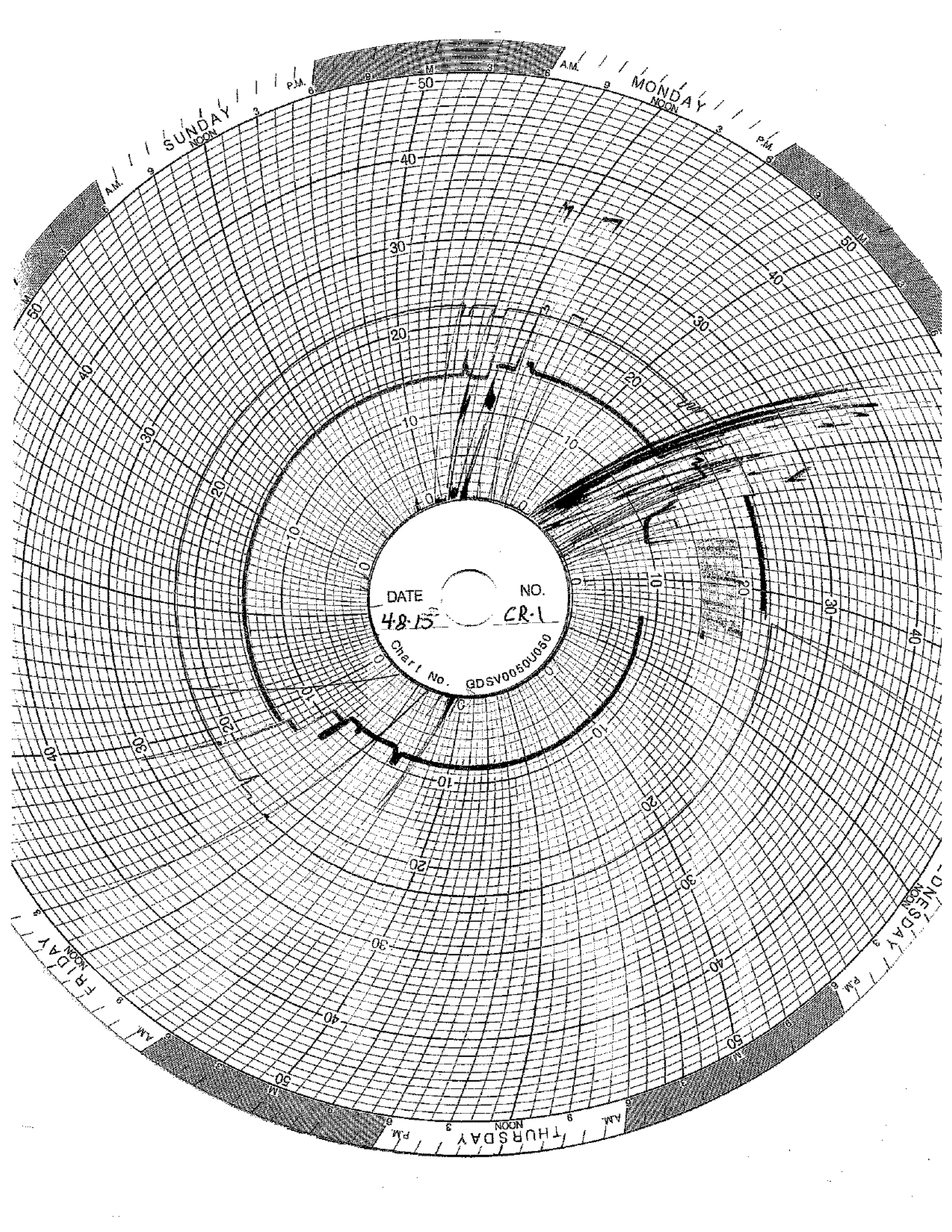
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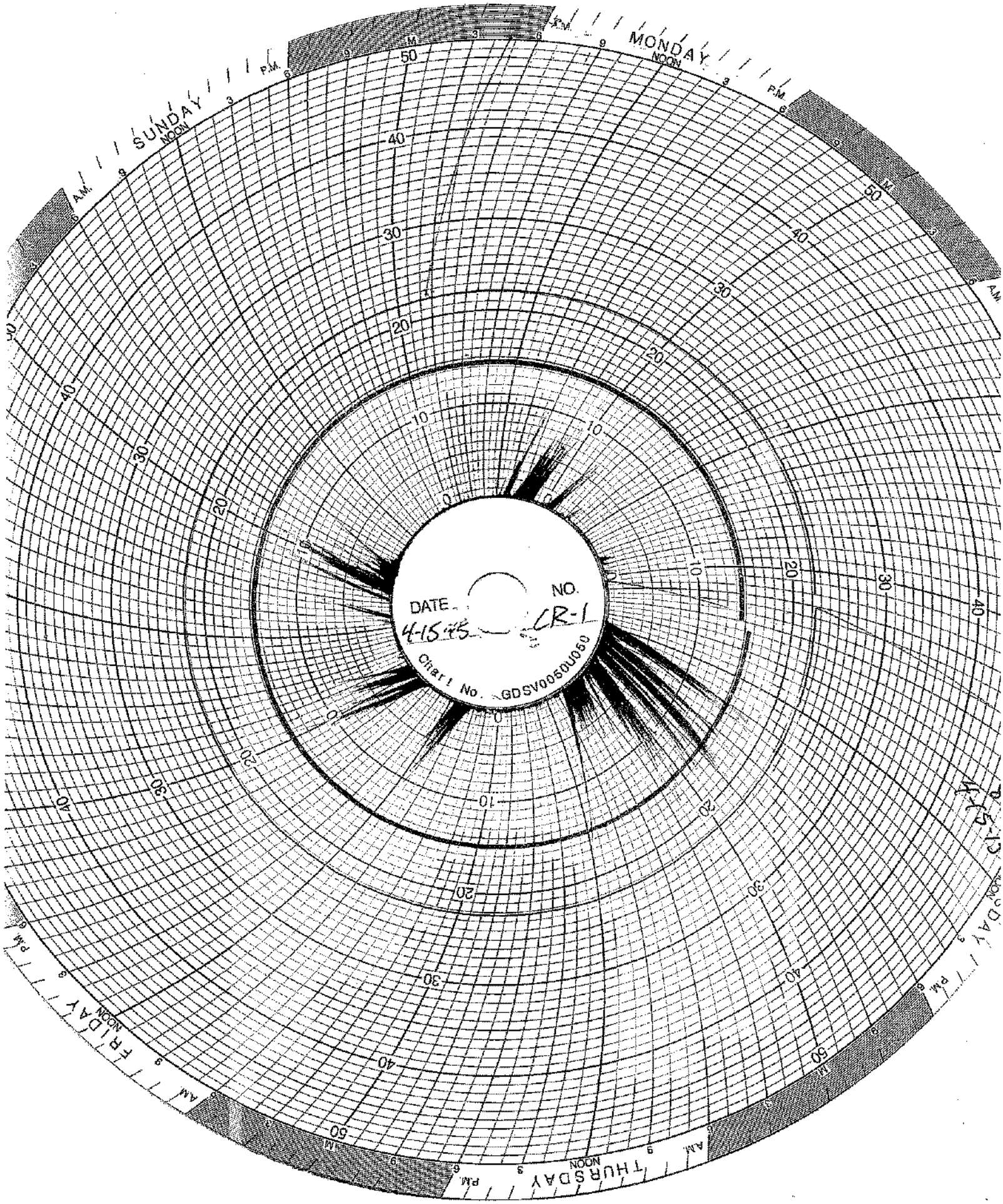
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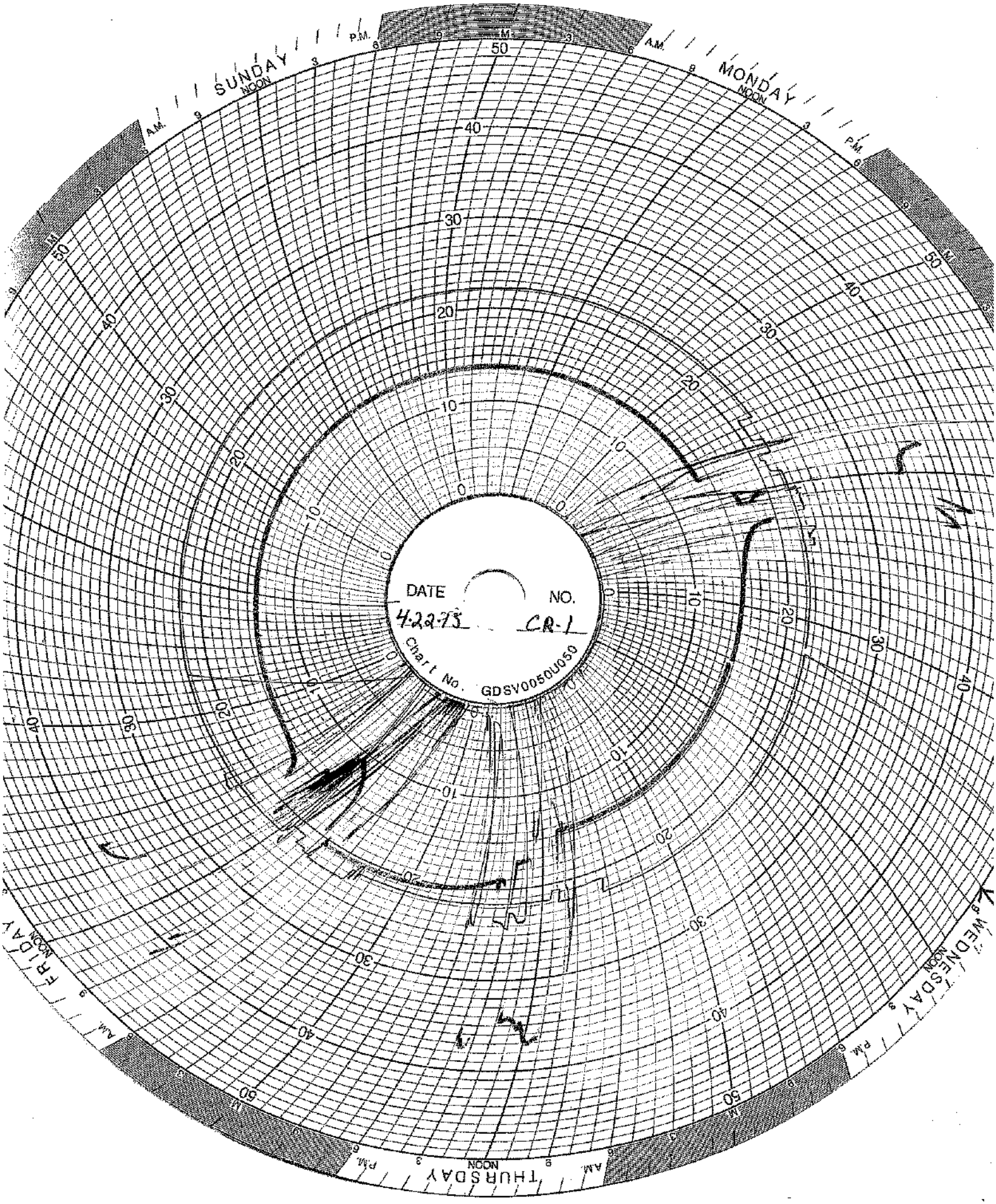
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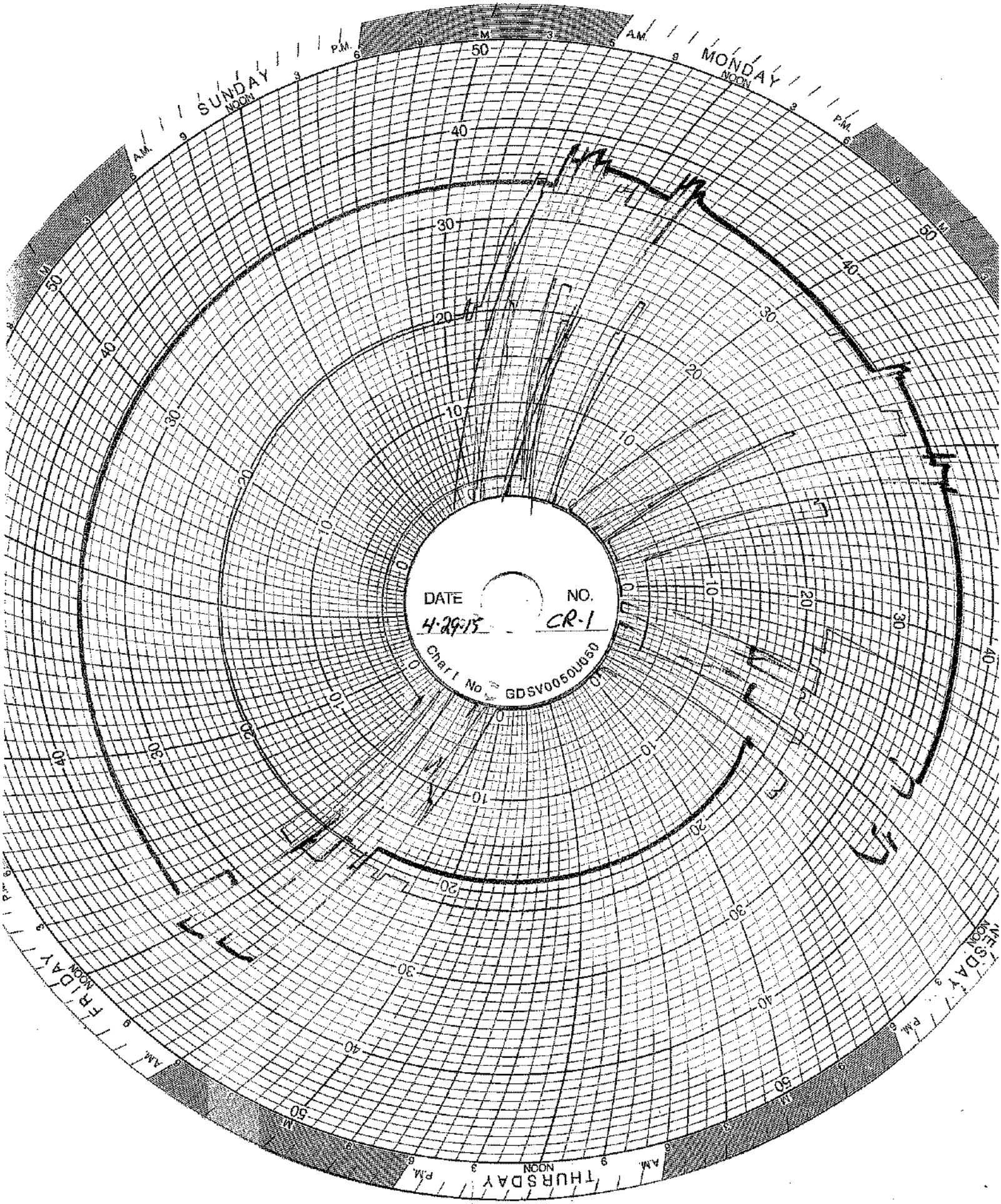
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WELL 2 DATA

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 Differential Pressure (PSIG)
4/1/2015	104.9	115.4	16.4	17.2	413.1	436.5	6.4	11.9	0.0	0.0	297.8	323.1
4/2/2015	101.1	671.0	15.2	16.9	353.1	973.3	3.6	16.6	0.0	98.0	173.4	369.8
4/3/2015	-10.0	686.9	15.6	18.3	261.6	991.1	0.7	7.4	0.0	85.0	181.3	401.0
4/4/2015	-4.0	-3.4	16.8	17.6	301.9	304.3	1.4	1.8	0.0	0.0	305.3	308.2
4/5/2015	-4.2	-3.8	16.7	17.5	303.3	305.3	1.8	2.0	0.0	0.0	307.3	309.2
4/6/2015	-10.0	675.3	15.7	17.9	189.9	1013.6	1.6	4.1	0.0	86.5	196.9	363.5
4/7/2015	-10.0	58.4	17.1	17.3	255.7	372.9	-1.2	3.6	0.0	0.0	265.7	344.7
4/8/2015	-10.0	703.1	15.1	17.3	267.6	977.6	0.2	4.4	0.0	93.0	194.9	378.6
4/9/2015	102.6	106.0	16.8	16.9	423.5	440.1	2.3	2.5	0.0	0.0	317.6	337.5
4/10/2015	-10.0	722.0	15.5	17.9	201.7	1035.9	0.6	6.8	0.0	115.0	121.3	374.8
4/11/2015	-1.8	-1.3	16.5	17.3	331.0	339.7	5.2	6.5	0.0	0.0	332.7	341.3
4/12/2015	-1.7	-1.3	16.5	17.3	338.6	340.5	6.0	6.4	0.0	0.0	340.2	342.0
4/13/2015	-1.6	-0.7	16.7	17.4	339.1	342.3	0.9	6.1	0.0	0.0	340.5	343.1
4/14/2015	-1.6	-0.5	16.6	17.5	339.8	343.0	0.4	2.4	0.0	0.0	341.2	343.6
4/15/2015	-10.0	714.0	15.1	17.8	340.1	1181.4	0.9	4.7	0.0	95.0	289.0	610.1
4/16/2015	-10.0	706.5	15.1	16.7	541.9	1089.1	2.9	9.4	0.0	80.0	300.2	602.2
4/17/2015	-7.9	702.8	15.0	16.6	563.5	1116.3	2.6	5.4	0.0	75.0	281.1	602.7
4/18/2015	42.1	43.8	15.4	16.4	610.1	618.2	5.1	5.4	0.0	0.0	567.9	574.5
4/19/2015	41.8	42.3	15.5	16.3	604.6	610.8	4.9	5.1	0.0	0.0	562.7	568.6
4/20/2015	-9.1	660.9	14.8	17.1	406.7	1151.0	4.1	7.8	0.0	70.0	271.4	612.2
4/21/2015	-10.0	686.3	14.9	17.6	401.8	1170.0	4.1	9.1	0.0	74.0	281.9	608.7
4/22/2015	-10.0	721.6	15.0	17.5	355.2	1184.6	4.9	9.4	0.0	80.0	279.0	603.0
4/23/2015	-10.0	711.6	15.2	17.2	341.5	1144.3	4.6	7.2	0.0	67.2	332.0	598.6
4/24/2015	-10.0	705.1	14.9	17.1	377.5	1201.7	4.6	9.0	0.0	97.0	267.0	637.1
4/25/2015	-10.0	-10.0	16.4	16.6	374.5	378.5	5.3	5.3	0.0	0.0	384.5	388.5
4/26/2015	-10.0	-10.0	16.2	17.0	372.9	375.1	5.3	5.4	0.0	0.0	382.9	385.1
4/27/2015	-10.0	-10.0	16.5	16.6	371.4	373.6	5.3	5.6	0.0	0.0	381.4	383.5
4/28/2015	-10.0	-10.0	15.7	17.1	292.9	498.2	5.4	8.5	0.0	0.0	302.9	508.2
4/29/2015	-10.0	-10.0	15.7	16.6	487.4	490.4	5.6	8.3	0.0	0.0	497.4	500.3
4/30/2015	-10.0	705.4	15.0	17.3	375.8	1123.8	6.0	7.5	0.0	76.0	148.5	600.9
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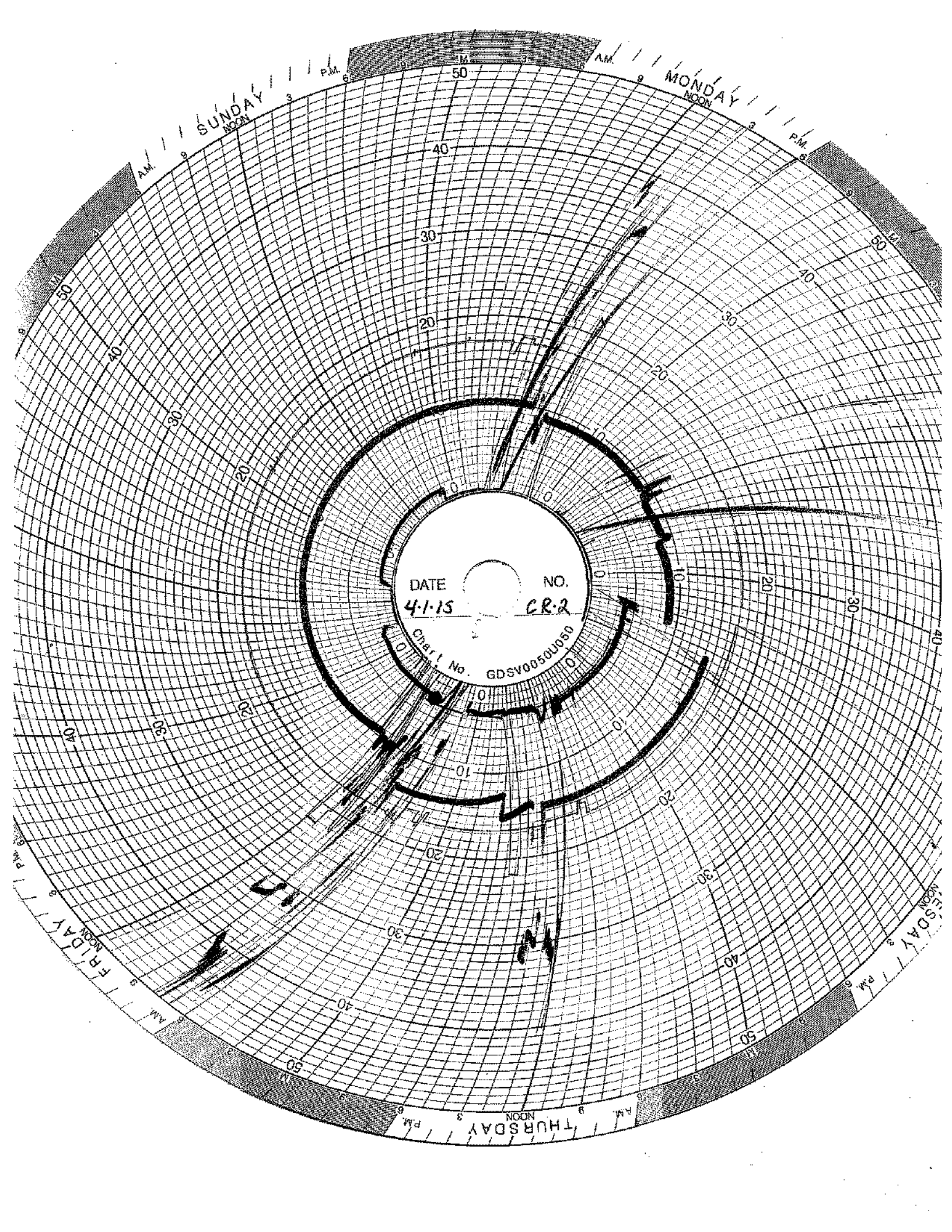
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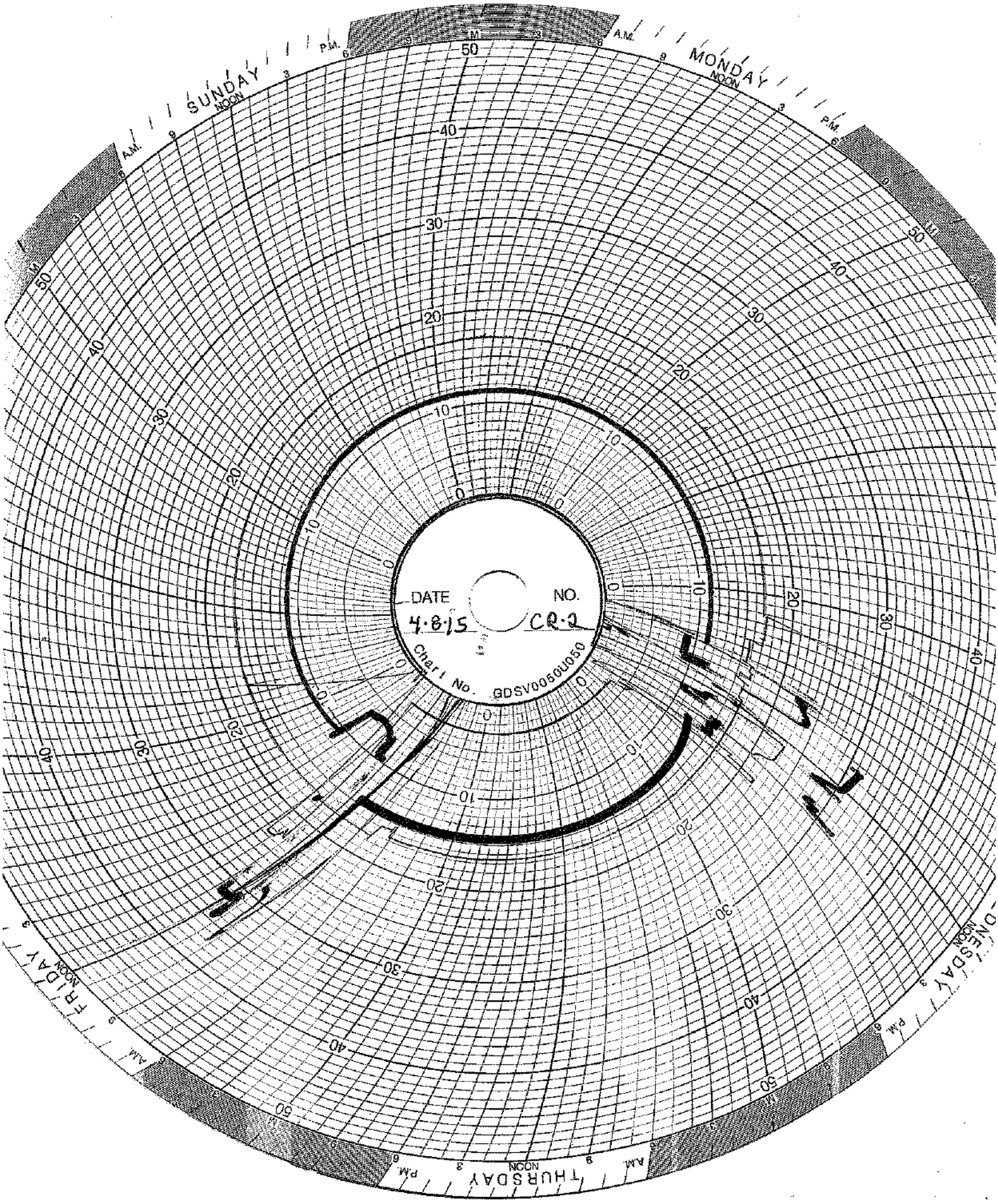
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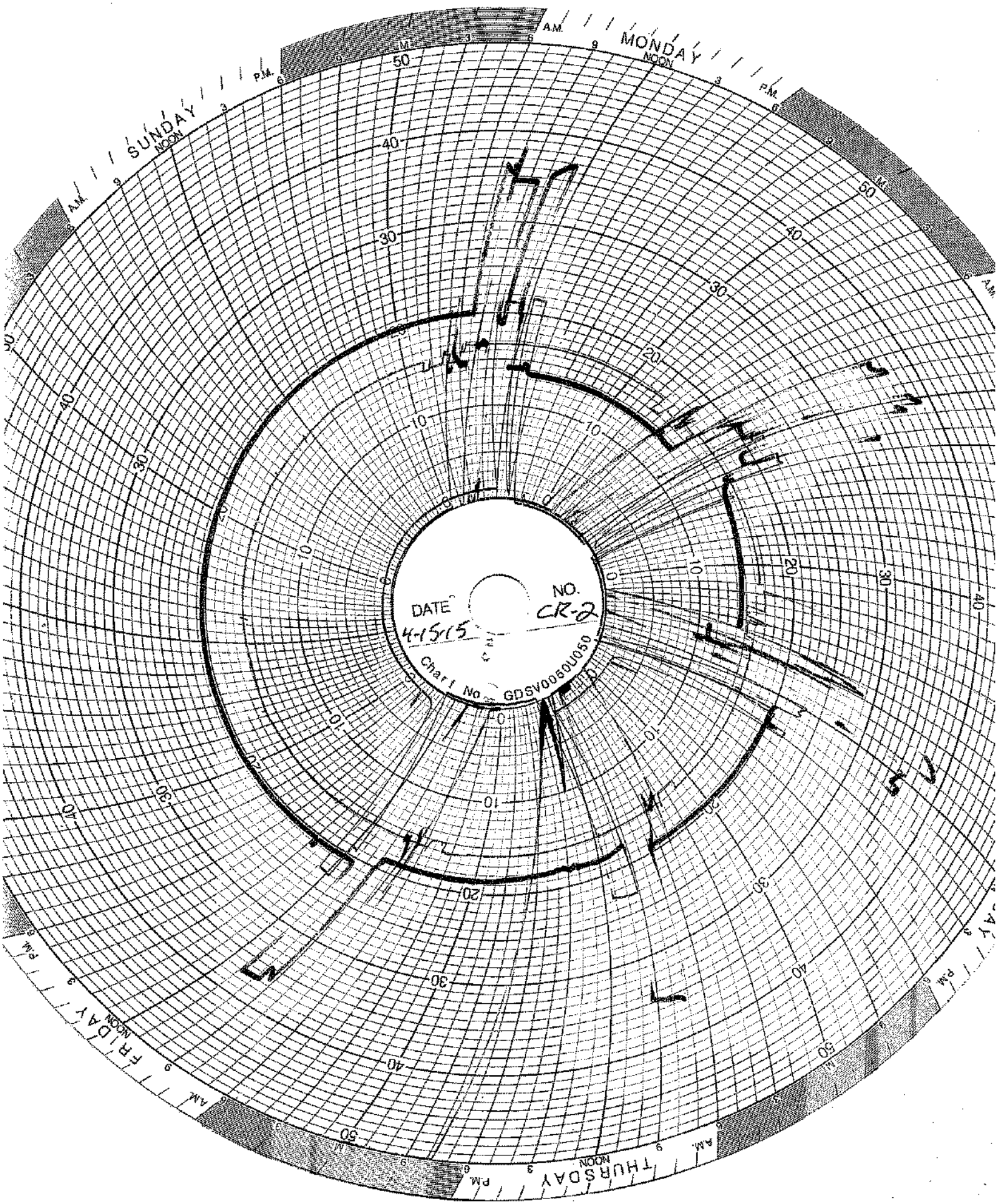
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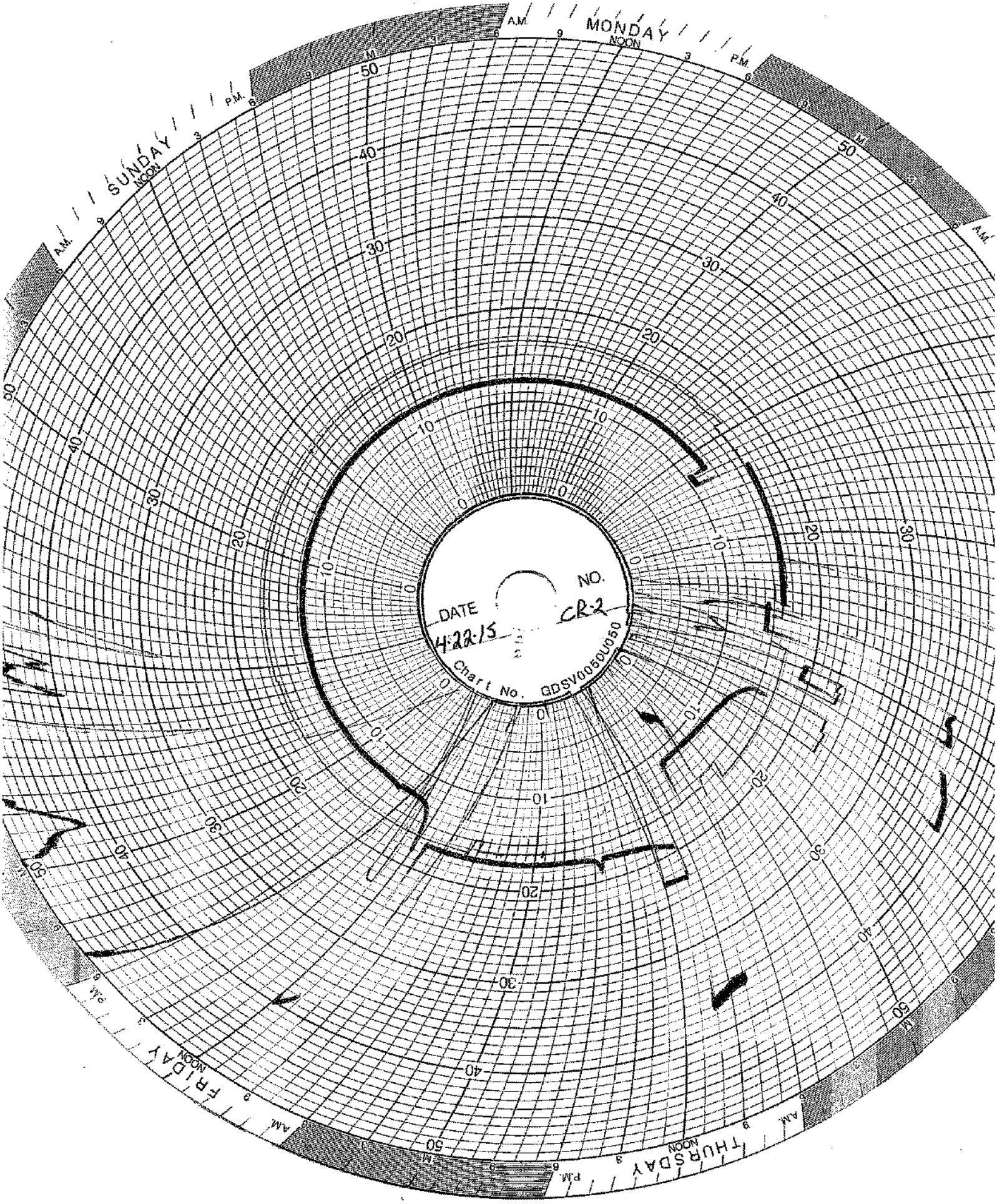
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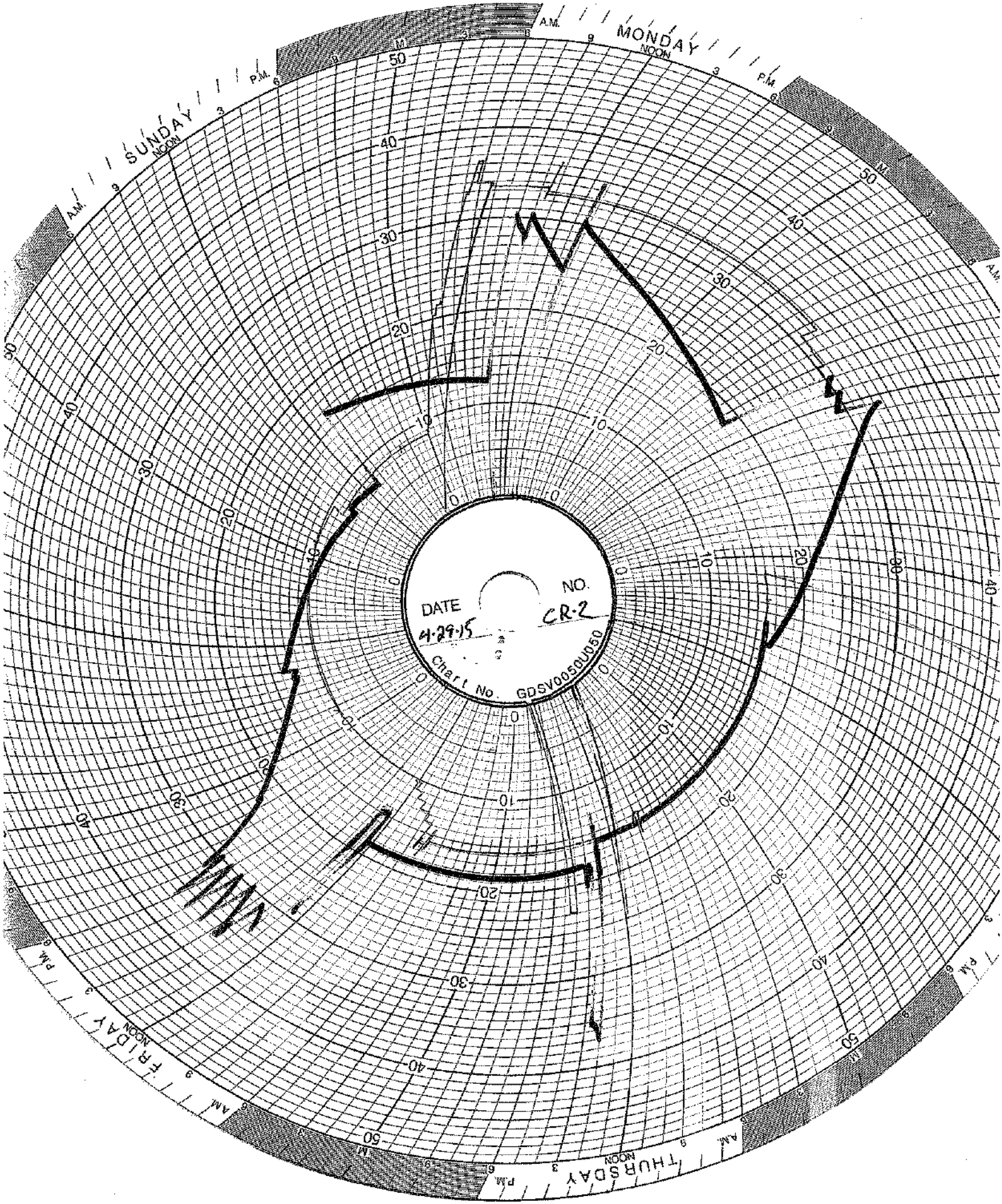
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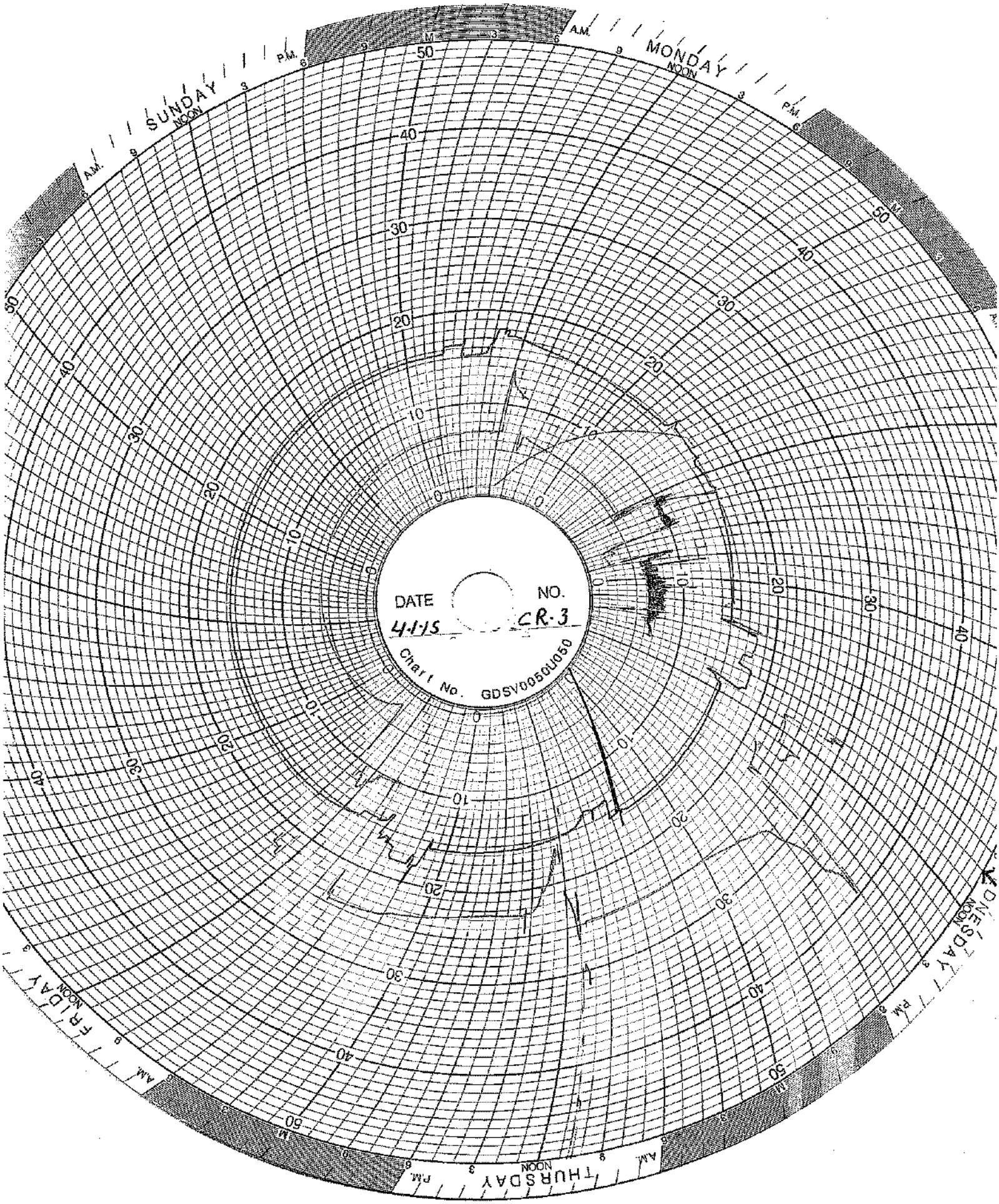
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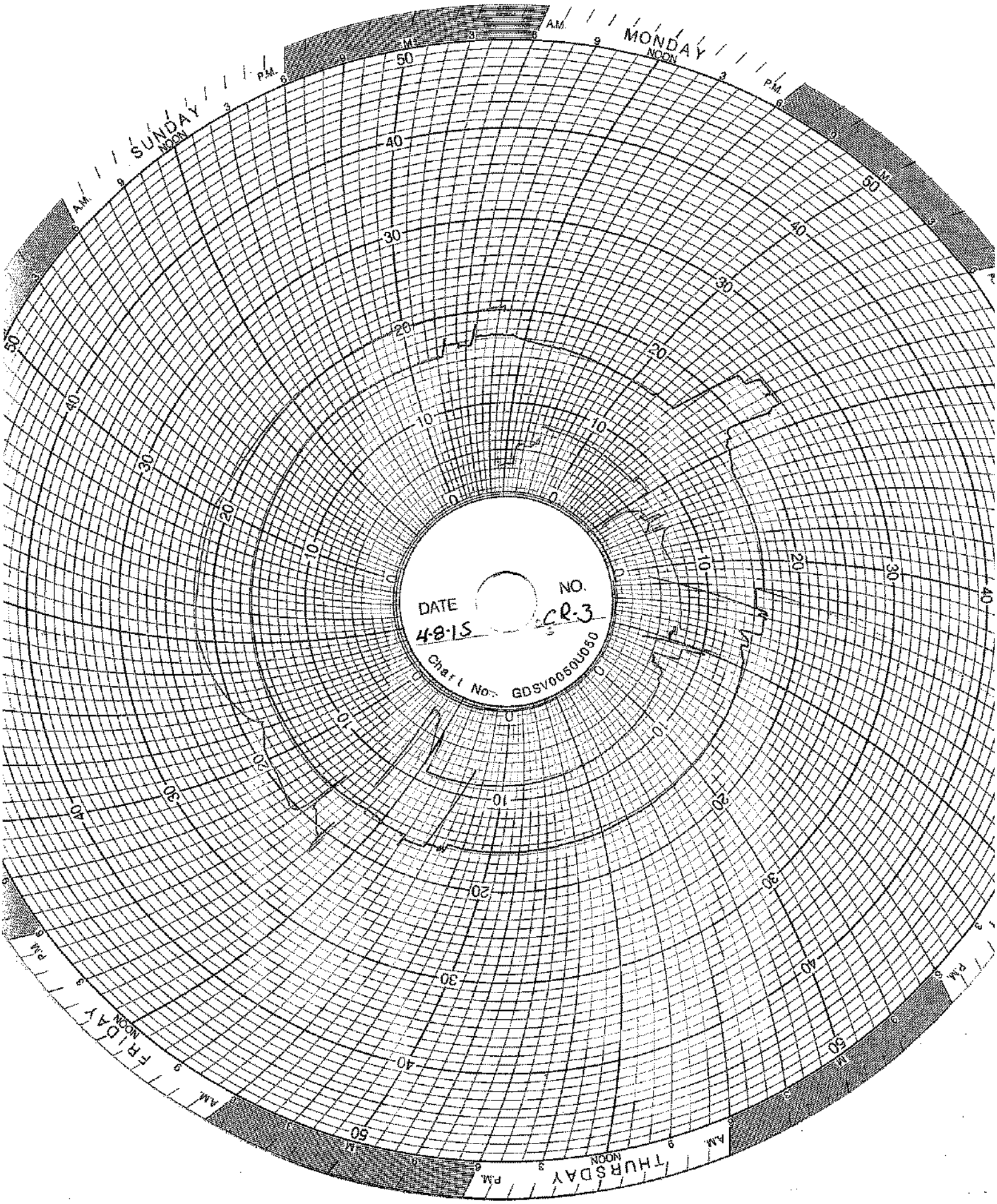
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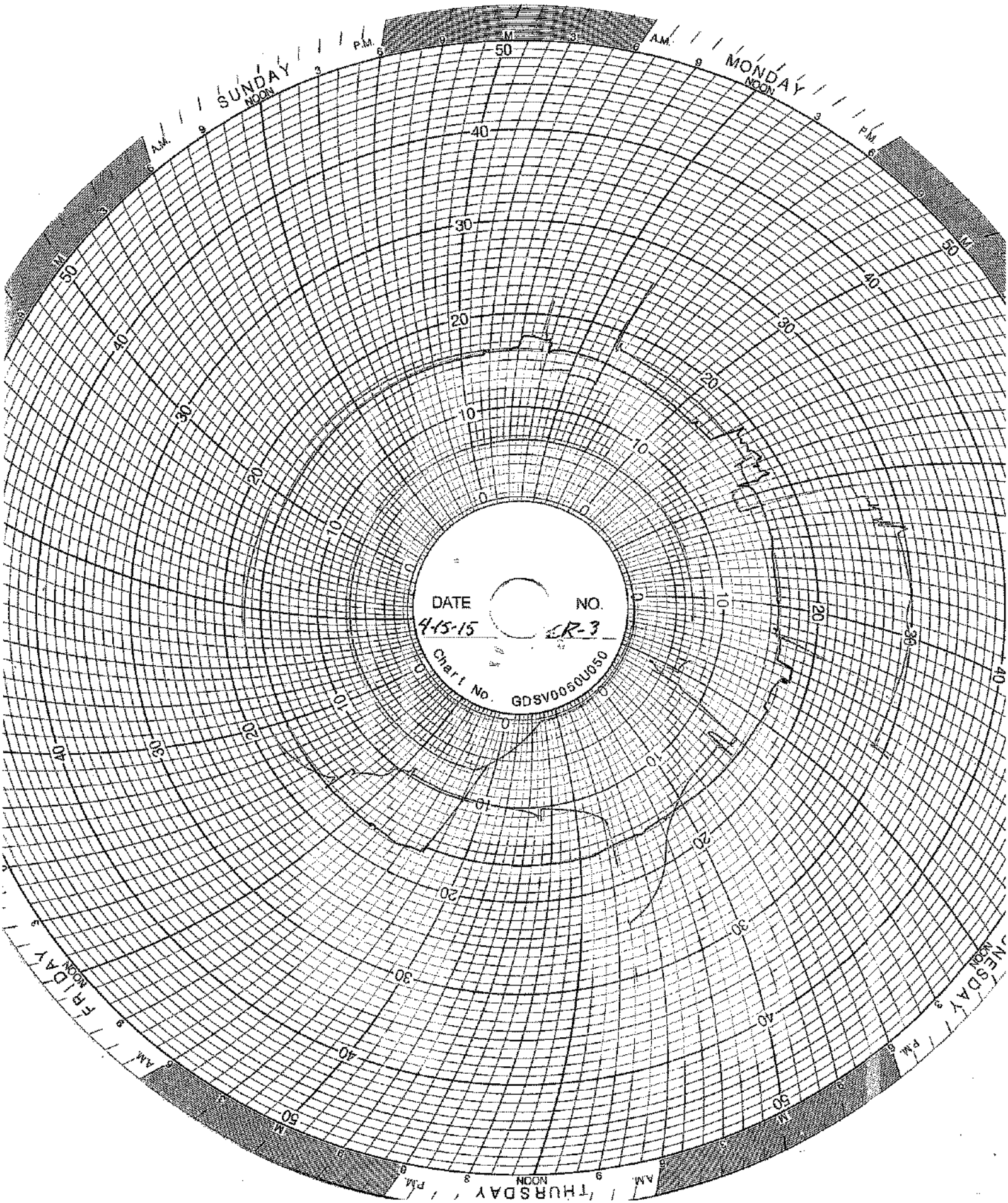
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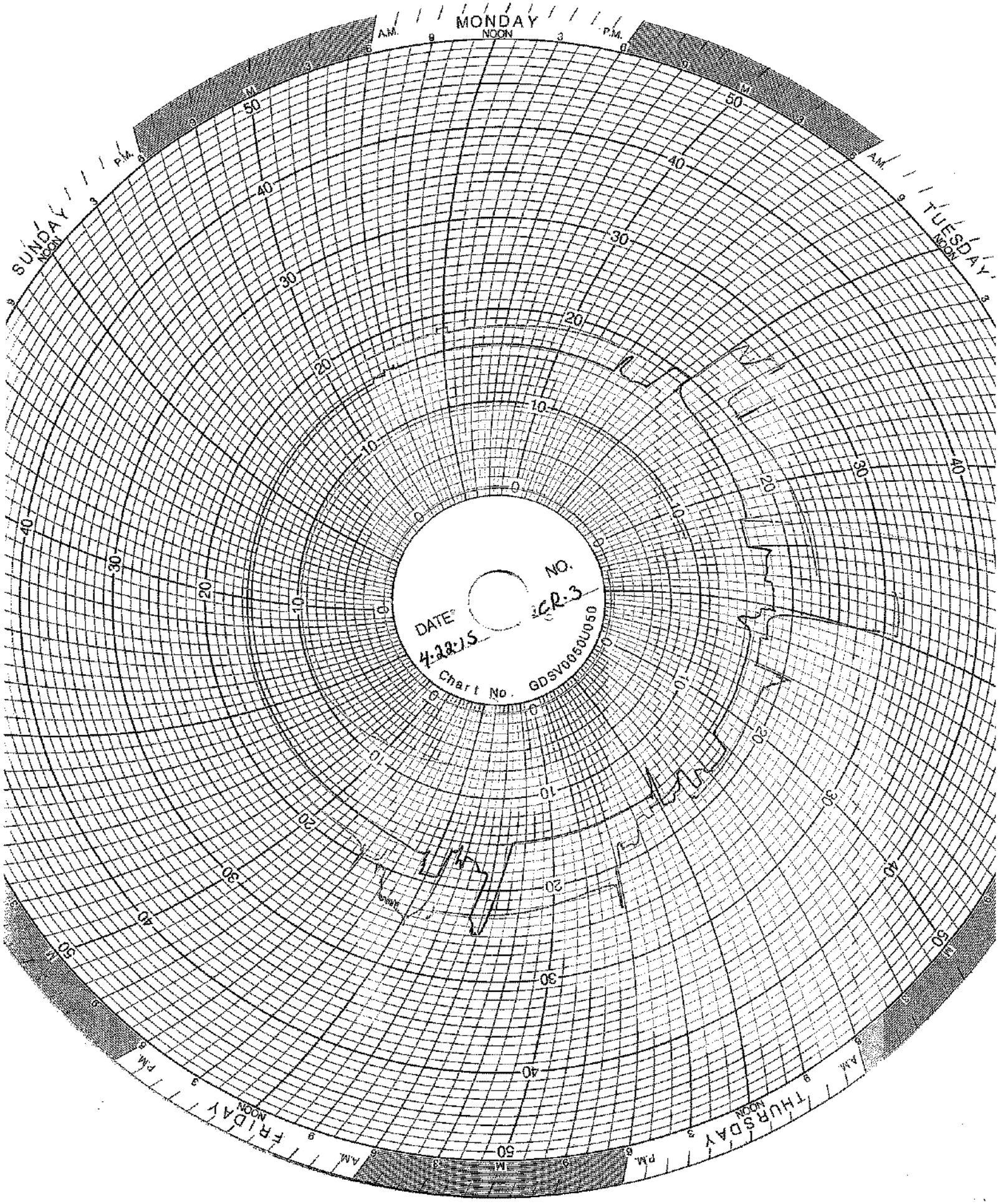
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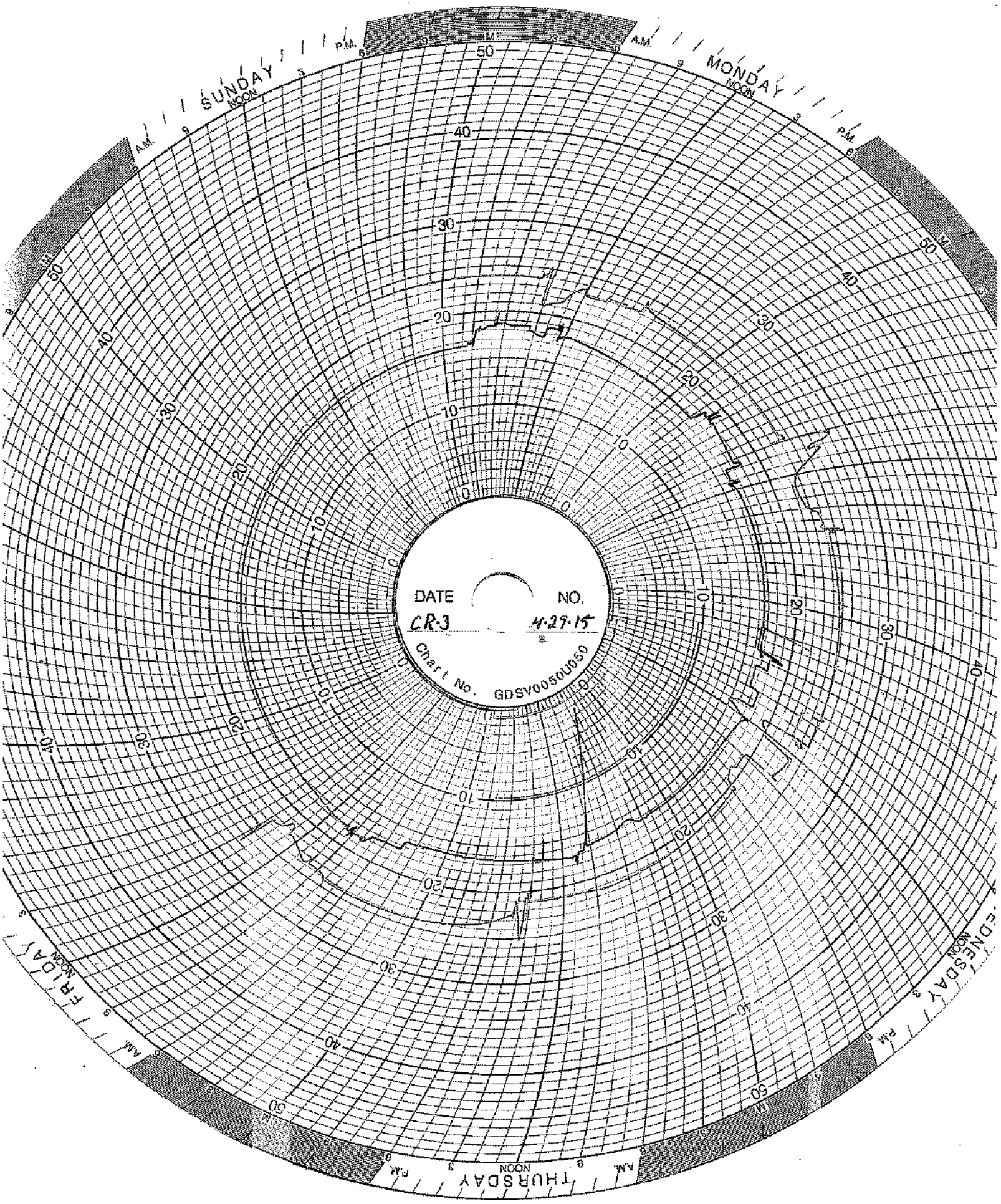
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MAINTENANCE LOG

UIC Monthly Maintenance Log

4/2/2015	pH probe	Installed a new salt bridge on the injection pH probe and calibrated the instrument.

CORROSION MONITORING

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	New hastelloy coupon
3/31/2015	13.339 g	9.286 g	7.005 g	
4/27/2015	13.335 g	9.130 g	6.852 g	

CORROSION MONITORING COUPONS VISUAL DESCRIPTION

April 27, 2015

Fiberglass Coupon
This 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 and blemishes.

Hastelloy Coupon
This coupon is identified as C276 with Serial Number 5. This coupon replaces the original that was mangled in the pump and filter down line after breaking off of it mounted location sometime in February. The coupon is silver in color with a lightly sandblasted texture. It is clean and free of pits, cracks and blemishes.

Stainless Steel Coupon
The coupon is silver in color with a pock-marked and corroded surface.

GHESQUIERE PLASTIC TESTING, INC.

20450 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3585
FAX (313) 885-1771

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	Hardness
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/kni

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 1	90

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

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/dm

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

	Hardness
Specimen 1	85

Specimen was returned to the client June 16, 2014.

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/dm

October 2, 2014

• TEST REPORT •

PN 118325

PO Attn:John Frost

PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By: _____
Melissa Martin
Sr. Project Technician

Approved By: _____
Jim Drummond
Physical & Plastics Testing, Manager

October 2, 2014

John Frost
Environmental Geo-Technologies, LLC

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

st

INJECTION FINGERPRINTS

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	04-01-15
Receiving ID#	I040115OL
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 All Waste Streams		Oilfield Brines Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.15	TDS	6.77.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	133.8 mS		
% Solids	6.7		
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	4-1-15
Receiving ID#	I04011502
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.26	TDS	7.01
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	141.8 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

RECEIVING INFORMATION	
Date	4-3-15
Receiving ID#	I0403150 1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	JH

COPY

LAB INFORMATION (All Waste Streams)		(Field Tests Only)	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	2.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.16	TDS	577
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	114.0mS		
% 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	4-3-15
Receiving ID#	E040315002
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	DAA

COPY

LAB INFORMATION All wastes/Shipments		Oilfield Brines Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.17	TDS	9.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	56°F		
Conductivity	1873 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

RECEIVING INFORMATION	
Date	4-6-15
Receiving ID#	I04061501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	J.H.

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.26	TDS	9.17
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	61°F		
Conductivity	182.3 mS		
% Solids	9.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4-6-15
Receiving ID#	T0901502
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	

COPY

LAB INFORMATION All Waste Streams		Oilfield Brines Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.17	TDS	7.27,
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	144.0 mS		
% Solids	7.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4-7-15
Receiving ID#	I04071501
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 All Waste Shipments		Oilfield Brines Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.15	TDS	32.2
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	61°F		
Conductivity	> 400.0 mS		
% Solids	32.2		
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	4-8-15
Receiving ID#	I040816 01
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 All waste shipments		Client/Enbis Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.14	TDS	15,607
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	101 °F		
Conductivity	313.1 mS		
% Solids	15.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4-10-15
Receiving ID#	I041015-01
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DH

COPY

LAB INFORMATION All Waste Shipments		Field Brines Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.22	TDS	7.2 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	61°F		
Conductivity	145.0 mS		
% Solids	7.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4-13-15
Receiving ID#	I041315O1
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: All Waste Shipments		Oil and Grease Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.12	TDS	6.32
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	125.1 mS		
% Solids	6.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/14/15
Receiving ID#	I04141501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JBM
Sampled by	

COPY

LAB INFORMATION All Waste Shipments		Oilfield Entities Only	
Compatible? (RT#)	~~Yes~~ No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.21	TDS	38.07
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	81°F		
Conductivity	> 400.0 mS		
% Solids	38.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4-14-15
Receiving ID#	I 041415 02
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	J.H.

COPY

LAB INFORMATION All Waste Streams		Oilfield Brines Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.16	TDS	7.37
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	81°F		
Conductivity	146.8 mS		
% Solids	7.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	04-15-15
Receiving ID#	I041511-01
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JTK
Sampled by	DAF

COPY

LAB INFORMATION All Waste Streams		Oil Field Brines Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.18	TDS	8.27
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	164.3 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	4-16-15
Receiving ID#	I04161501
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 (All Waste Streams)		On-Field Brines Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	8.42
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	59° F		
Conductivity	167.3 mS		
% 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	4/17/13
Receiving ID#	I 041715O1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	DM

COPY

LAB INFORMATION All Waste Streams		Field Brine Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	4.52
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	89.0 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

RECEIVING INFORMATION	
Date	4/20/13
Receiving ID#	I04201501
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 All Waste Streams		Field Information	
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	1.06	TDS	5.6 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	60°F		
Conductivity	112.1 mS		
% Solids	5.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/20/13
Receiving ID#	I04201501
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 All Waste Streams		Oilfield Brines Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	5.6 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	60°F		
Conductivity	112.1 mS		
% Solids	5.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4-20-15
Receiving ID#	I042015OB
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DH

COPY

LAB INFORMATION All Waste Streams		For Inorganics Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.09	TDS	6.37
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	125.2mS		
% Solids	6.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/21/15
Receiving ID#	I04211501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	DH

COPY

LAB INFORMATION - All Waste Shipments		Oilfield Exempt Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	5.37
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	104.3 mS		
% Solids	5.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/24/15
Receiving ID#	I 042415.02
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	SH

COPY

LAB INFORMATION All Waste Streams		Oil Bottoms Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	4.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	3.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	75.3 mS		
% Solids	12.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	9.0		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4-22-15
Receiving ID#	I5422151
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	DAH

COPY

LAB INFORMATION (All Waste Streams)		ONLY (Field Brines Only)	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	4.22
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	84.4 mS		
% Solids	4.2		
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	4-22-15
Receiving ID#	I042215D2
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DH

COPY

LAB INFORMATION All Waste Streams		Oily EC Blinds Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.13	TDS	6.6
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	131.8 mS		
% Solids	8.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	2.0		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/23/15
Receiving ID#	I042315O1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	T.H.
Sampled by	DM

COPY

LAB INFORMATION All Waste Streams		Oilfield Brines Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.14	TDS	7.09
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	139.2 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

RECEIVING INFORMATION	
Date	4/23/15
Receiving ID#	I04231502
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 (Waste Streams)		Oilfield Brines Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	4.59
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	60°F		
Conductivity	90.2 ms		
% Solids	4.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	0.2		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/24/15
Receiving ID#	I04241501
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 All Waste Shipments		Oil Analyses Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.25	TDS	38.37
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	73 °F		
Conductivity	398.1 mS		
% Solids	38.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/24/15
Receiving ID#	I042415O2
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	JH

COPY

LAB INFORMATION All Waste Streams		Oilfield Brines Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.27	TDS	12.97
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	255.5 m S		
% Solids	12.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/24/15
Receiving ID#	I04241503
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 (Waste Stream)		@ Field Brine - oil	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.03	TDS	3.07
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	53°F		
Conductivity	63.8 mS		
% Solids	3.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/24/13
Receiving ID#	I042415O4
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 - All Waste Streams		Oil and Brines Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.13	TDS	28.67
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	> 400.0 mS		
% Solids	28.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/28/15
Receiving ID#	I042815O1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	D.M.

COPY

LAB INFORMATION (Waste Shipments)		(Brine Only)	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	3.72
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	74.1 mS		
% 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

RECEIVING INFORMATION	
Date	4/28/13
Receiving ID#	I04281502
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	

COPY

LAB INFORMATION (All waste Shipments)		Oilfield Fluids only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.14	TDS	30.0%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	73°F		
Conductivity	> 400.0 mS		
% Solids	30.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/29/15
Receiving ID#	I042915O1
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 All Waste Streams		Oilfield Brines Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.0.	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	19.29
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	383.1 mS		
% Solids	19.2		
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	4/29/15
Receiving ID#	I042915002
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	RR

COPY

LAB INFORMATION All Waste Streams		Circle Lines Only	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.12	TDS	7.69
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	151.7 mS		
% Solids	7.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/30/15
Receiving ID#	I04301501
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 All waste Streams		Oilfield Brines Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	4.27
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	82.3 mS		
% Solids	4.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

WASTE STREAMS
CHARACTERIZATIONS

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

Generator Waste Profile

Profile # 00605

GENERATOR INFORMATION

Name: [redacted] USEPA ID #: [redacted]

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

City: [redacted] State: [redacted] Zip Code: [redacted]

Contact: [redacted] Title: _____ Phone: [redacted] Fax: [redacted]

BILLING INFORMATION ☒ SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

CAUSTIC SODA

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

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

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear	☒ 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐ <0.8 ☒ 1.0 – 1.2	acceptable
☐ Black/Brown	☐ 1-3 % ☐ >5%	☒ Bi-Layered	☐ 0.8 – 1.0 ☐ 1.3 – 1.4	04/06/15
☒ Other Yellow		☐ Single Phase	Exact / Other _____	

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	-	%		-	%
Sodium Hydroxide	-	%		-	%
	-	%		-	%
	-	%		-	%
	-	%		-	%

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	☐	____ ppm	Aromatic Amine	☐	____ ppm
Dioxins	☐	____ ppm	Pesticides	☐	____ ppm
Cyanides Reactive	☐	____ ppm	Rodenticides	☐	____ ppm
Cyanides Total	☐	____ ppm	Fungicides	☐	____ ppm
Sulfides Reactive	☐	____ ppm			
Sulfides Total	☐	____ ppm			

Arsenic (As)	D004	☐	< 5 ppm	____	ppm
Barium (Ba)	D005	☐	<100 ppm	____	ppm
Cadmium (Cd)	D006	☐	< 1 ppm	____	ppm
Chromium (Cr)	D007	☐	< 5 ppm	____	ppm
Lead (Pb)	D008	☐	< 5 ppm	____	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 SOOTHING HYDROXIDE Hazard Class 8 UN/NA 1824
PG II ERG ____ Hazardous Constituents for "n.o.s." ____
4. Method of Shipment: ☐ Bulk Tanker ☑ Vac truck ☐ Rail Car ☑ Drums ☑ Totes
5. Number of Units to Ship Now: ____ 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 and/or regulatory requirements.

Printed Name: [redacted] Title: [redacted]

Generator's Signature: [redacted] Date: [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. ____ 2. ____
SAMPLING METHOD COLLECTION POINT

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

4. Sample No. ____ Preservation: Yes ☐ No ☐

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

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

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/27/15
Receiving ID#	Caustic Soda
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION All Waste Streams		Oilfield Brines Only	
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.)	12.8	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.14	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	Yes (No)	Sulfate	
Oil in Sample	Yes (No)		
Temperature	58 °F		
Conductivity	110.9 mS		
% Solids	28.9		
Turbidity	(Yes) No		
Color (visual)	Yellow		
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 # 00606

GENERATOR INFORMATION

Name: [redacted] USEPA ID #: [redacted]

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

City: [redacted] State: [redacted] Zip Code: [redacted]

Contact: [redacted] Title: _____ Phone: [redacted] Fax: [redacted]

BILLING INFORMATION ☒ SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

CHROME RINSE WATER

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

PLATING RINSE BATH

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 D007

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear ☐ Black/Brown ☒ Other Orange	☒ 0-1 % ☐ 3-5 % ☐ 1-3 % ☐ > 5%	☐ Multi-Layered ☐ Bi-Layered ☒ Single Phase	☐ <0.8 ☐ 1.0 – 1.2 ☐ 0.8 – 1.0 ☒ 1.3 – 1.4 Exact / Other _____	acceptable 04.01.15

pH: ☐ NA ☒ ≤ 2 ☐ 2 – 4 ☐ 4 – 6 ☐ 6 – 8 ☐ 8 – 10 ☐ 10 – 12.5 ☐ ≥ 12.5

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

VOC CONCENTRATION = ~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	-	%		-	%
chromic acid	-	%		-	%
	-	%		-	%
	-	%		-	%
	-	%		-	%

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	☒	____ ppm	Aromatic Amine	☒	____ ppm
Dioxins	☒	____ ppm	Pesticides	☒	____ ppm
Cyanides Reactive	☒	____ ppm	Rodenticides	☒	____ ppm
Cyanides Total	☒	____ ppm	Fungicides	☒	____ ppm
Sulfides Reactive	☒	____ ppm			
Sulfides Total	☒	____ ppm			

Arsenic (As)	D004	☒	< 5	ppm	____	ppm
Barium (Ba)	D005	☒	<100	ppm	____	ppm
Cadmium (Cd)	D006	☒	< 1	ppm	____	ppm
Chromium (Cr)	D007	☐	< 5	ppm	____	ppm
Lead (Pb)	D008	☒	< 5	ppm	____	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 RQ, Waste Chromic Acid Hazard Class 8 UN/NA 1755

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

4. Method of Shipment: ☐ Bulk Tanker ☒ Vac truck ☐ Rail Car ☐ Drums ☐ Totes
5. Number of Units to Ship Now: _____ 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 and/or regulatory requirements.

Printed Name [redacted] Title: [redacted]

Generator's Signature [redacted] Date [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. _____ 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

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/27/15
Receiving ID#	Chrome Rinse (Wash)
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	Client

LAB INFORMATION (All Waste Shipments)		Client Entries Only	
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.)	1.5	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.04	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	63°F		
Conductivity	100.4 ms		
% Solids	3.8		
Turbidity	Yes (No)		
Color (visual)	Orange		
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 # 00620

GENERATOR INFORMATION

Name: [redacted] USEPA ID # [redacted]

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

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] State: [redacted] Zip Code: [redacted]

Attention: [redacted] Phone: [redacted] Fax: [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name: Caustic Cleaner

Process Generating Waste (Please *be specific, incomplete information may delay the approval process*): caustic cleaner with water to clean empty product totes

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear ☐ Black/Brown xOther brownish/grey	☐ 0-1 % ☐ 3-5 % X 1-5 % ☐ > 5%	☐ Multi-Layered ☐ Bi-Layered X Single Phase	☐<0.8 X 1.0 – 1.2 ☐ 0.8–1.0 ☐ 1.3 – 1.4 Exact / Other _____	acceptable MD 04.01.15

pH: ☐NA ☐ ≤ 2 ☐ 2 – 4 ☐ 4 – 6 ☐ 6 – 8 ☐ 8 – 10 ☐ 10 – 12.5 X ≥12.5

Liquid Flash Point: ☐ <73°F ☐ 73 – 100°F ☐ 101 – 140°F ☐ 141 – 200°F ☐ >200°F X 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	70	80	%	Potassium Hydroxide	30	10
Dirt	1	5	%			
			%			
			%			
			%			

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	☒	____ppm	Aromatic Amine	☒	____ ppm
Dioxins	☒	____ppm	Pesticides	☒	____ ppm
Cyanides Reactive	☒	____ppm	Rodenticides	☒	____ ppm
Cyanides Total	☒	____ppm	Fungicides	☒	____ ppm
Sulfides Reactive	☒	____ppm			
Sulfides Total	☒	____ppm			

Arsenic (As)	D004	☒	< 5	ppm	____	ppm
Barium (Ba)	D005	☒	<100	ppm	____	ppm
Cadmium (Cd)	D006	☒	< 1	ppm	____	ppm
Chromium (Cr)	D007	☐	< 5	ppm	12	ppm
Lead (Pb)	D008	☒	< 5	ppm	____	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 X None Apply

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? X Yes ☐ No
2. Reportable Quantity (RQ) In pounds 100
3. DOT Shipping Name Waste corrosive liquid basic, inorganic, N.O.S. Hazard Class 8 UN/NA UN3266

PG _____ ERG 154 Hazardous Constituents for "n.o.s." Potassium hydroxide

4. Method of Shipment: X Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☐ Totes
5. Number of Units to Ship Now: 5000 gallons 6. Anticipated Volume / Units per Year: 30,000 gallons 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: [redacted] Title: [redacted]

Generator's Signature: [redacted] Date: [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. _____ 2. _____
SAMPLING METHOD COLLECTION POINT

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

4. Sample No. _____ Preservation: Yes ☐ No ☐

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

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

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

Generator Waste Profile

PROFILE # 00621

GENERATOR INFORMATION

Name: [redacted] USEPA ID # [redacted]

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

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]

[redacted] State: [redacted] Zip Code: [redacted]

Attention: [redacted] Phone: [redacted] Fax: [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name: Waste pit water

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

cleaning of empty pruduct totes

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: XNon Hazardous Liquid Industrial Waste Hazardous Waste
2. Regulated by TSCA? Yes X No (PCBs, etc.)
3. List ALL Applicable Waste Codes: D29L

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
White/Clear Black/Brown xOther Lt. grey	0-1 % 3-5 % X 1-5 % > 5%	Multi-Layered Bi-Layered X Single Phase	<0.8 X 1.0 – 1.2 0.8 –1.0 1.3 – 1.4 Exact / Other _____	

Acceptable
04.03.15

pH: NA ≤ 2 2 – 4 X 4 – 10 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 X 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%)

SEE Profile # 00448

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	☒	____ ppm	Aromatic Amine	☒	____ ppm
Dioxins	☒	____ ppm	Pesticides	☒	____ ppm
Cyanides Reactive	☒	____ ppm	Rodenticides	☒	____ ppm
Cyanides Total	☐	____ ppm	Fungicides	☒	____ ppm
Sulfides Reactive	☒	____ ppm			
Sulfides Total	☒	____ ppm			

Arsenic (As)	D004	☒	< 5 ppm	____ ppm
Barium (Ba)	D005	☒	<100 ppm	____ ppm
Cadmium (Cd)	D006	☒	< 1 ppm	____ ppm
Chromium (Cr)	D007	☒	< 5 ppm	____ ppm
Lead (Pb)	D008	☒	< 5 ppm	____ 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 X No
2. Reportable Quantity (RQ) in pounds _____

3. DOT Shipping Name Non-DOT regulated liquid Hazard Class _____ UN/NA _

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

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

5. Number of Units to Ship Now: 7-8k gallons 6. Anticipated Volume / Units per Year: 80,000 gallons or One Time
6. Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

Printed Name: _____ Title: _____

Generator's Signature: _____ Date: _____

GENERATOR'S CHAIN O[redacted]EASE collect a representative 1-quart sample of the waste described in the above referenced Ge[redacted]priate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

1. _____ 2. _____

SAMPLING METHOD COLLECTION POINT

3. _____

SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. _____ Preservation: Yes No

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

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

FINGERPRINT FORM

6621

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/2/15
Receiving ID#	Pit water
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION AT WASTE PROFILE		CHEMISTRY	
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.)	12.7	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.01	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	63°F		
Conductivity	23.5 mS		
% Solids	7.6		
Turbidity	(Yes) No		
Color (visual)	Grey		
TSS (%)	3.0		
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 # 00634

GENERATOR INFORMATION

Name: [redacted] USEPA ID # [redacted]

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

City: [redacted] State [redacted] Zip Code [redacted]

Contact [redacted] Title: [redacted] Phone: [redacted] Fax: ( ) _____

BILLING INFORMATION ☐ SAME AS ABOVE

Company Name: [redacted]

Address: [redacted]

City: [redacted] State [redacted] Zip Code: [redacted]

Attention: Accounts Payable Phone [redacted] Fax: [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name: Total Water Management Mogul 720

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

Unwanted product boiler treatment chemical. MSDS not available, see attached chemical analysis.

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: ☐ Non Hazardous Liquid Industrial Waste X Hazardous Waste
2. Regulated by TSCA? ☐Yes XNo (PCBs, etc.)
3. List ALL Applicable Waste Codes: D002 _____ _____ _____ _____ _____ _____ _____ _____

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear ☐ Black/Brown X Other Amber	X 0-1 % ☐ 3-5 % ☐ 1-3 % ☐ > 5%	☐ Multi-Layered ☐ Bi-Layered **X** Single Phase	☐<0.8 X 1.0 – 1.2 ☐ 0.8 –1.0 ☐ 1.3 – 1.4 Exact / Other _____	acceptable 04.09.15

pH: ☐ NA ☐ ≤ 2 ☐ 2 – 4 ☐ 4 – 6 ☐ 6 – 8 ☐ 8 – 10 ☐ 10 – 12.5 X ≥12.5

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

VOC CONCENTRATION - _____ **<1%** _____ **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
Alkaline Boiler Treatment Chemical	100	100 %			%
		%			%
		%			%
		%			%
		%			%

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

	Not Present	Concentration		Not Present	Concentration
PCB	X	_____ppm	Aromatic Amine	X	_____ ppm
Dioxins	X	_____ppm	Pesticides	X	_____ ppm
Cyanides Reactive	X	_____ppm	Rodenticides	X	_____ ppm
Cyanides Total	X	_____ppm	Fungicides	X	_____ ppm
Sulfides Reactive	X	_____ppm			
Sulfides Total	X	_____ppm			

Arsenic (As)	D004	X < 5	ppm	_____	ppm
Barium (Ba)	D005	X <100	ppm	_____	ppm
Cadmium (Cd)	D006	X < 1	ppm	_____	ppm
Chromium (Cr)	D007	X < 5	ppm	_____	ppm
Lead (Pb)	D008	X < 5	ppm	_____	ppm
Mercury (Hg)	D009	X < 0.2	ppm	_____	ppm
Selenium (Se)	D010	X < 1	ppm	_____	ppm
Silver (Ag)	D011	X < 5	ppm	_____	ppm

TCLP Organics D012 – D043 above regulatory limits: Present ☐ **Not Present X**

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 **X None Apply**

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? XYes ☐No
2. Reportable Quantity (RQ) in pounds ____100_____
3. DOT Shipping Name: Waste Corrosive Liquid, Basic, Organic, NOS Hazard Class 8 UN/NA 3267

PG _II_____ ERG 153 Hazardous Constituents for "n.o.s." potassium hydroxide

4. Method of Shipment: ☐Bulk Tanker ☐Vac truck ☐Rail Car X Drums ☐Totes
5. Number of Units to Ship Now: 4 (1-55 gal., 2-30 gal., 1-15 gal.)
6. Anticipated Volume / Units per Year: _____ or X 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 [redacted] Title: [redacted]

Generator's Signature: [redacted] Date [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

PLEASE collect a representative 1-quart sample 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-Technologie 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

Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

Certificate of Analysis

Date: March 30, 2015

Customer: [redacted]

Project Name:
Project Number: [redacted]
Submit Date: 3/24/2015
Collection Date: 3/23/2015

Lab Sample ID: [redacted]

Sample ID: 5: Boiler Treatment

Parameters	Result	LRL	Units	Method Reference	Analysis Date	Analyst
Flashpoint	DNF	200	°F	SW846 1010	3/24/2015	EDW
pH	14.0	1-14		SW846 9045C	3/24/2015	LLW
TCLP Metals Analysis						
Arsenic	ND	0.5	mg/L	SW846 7060	3/30/2015	LLW
Barium	ND	0.5	mg/L	SW846 7081	3/30/2015	LLW
Cadmium	ND	0.5	mg/L	SW846 7130	3/27/2015	LLW
Chromium	ND	0.5	mg/L	SW846 7190	3/27/2015	LLW
Lead	ND	0.5	mg/L	SW846 7420	3/27/2015	LLW
Mercury	ND	0.1	mg/L	SW846 7471	3/27/2015	LLW
Selenium	ND	0.5	mg/L	SW846 7740	3/30/2015	LLW
Silver	ND	0.5	mg/L	SW846 7761	3/27/2015	LLW

Parameter- The analysis performed or name of the chemical analyzed.
Result- The reported concentration in the sample at or above reg level
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Units- The unit which corresponds to the reported concentration
Method Reference- The method used to provide results.
Analysis Date- Date the analysis was performed
Analyst- Initials of the analyst performing the analysis
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 3/30/2015

FINGERPRINT FORM 00636

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/8/15
Receiving ID#	99404
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION (Analysis)		Oilfield Brines Only	
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.)	13.3	Sodium Chloride	
Cyanides? (mg/L)	< 20	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.18	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	63°F		
Conductivity	252.1 mS		
% Solids	36.0		
Turbidity	(Yes) No		
Color (visual)	Brown		
TSS (%)	0.1		
Radiation Screen (as needed)	Neg. + : ve		
Lab Signature			

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

Generator Waste Profile

Profile # 0063

GENERATOR INFORMATION

Name: [redacted] USEPA ID #: [redacted]

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

City: [redacted] State: [redacted] Zip Code: [redacted]

Contact: [redacted] Title: [redacted] Phone: [redacted] Fax: ( ) _____

BILLING INFORMATION ☐ SAME AS ABOVE

Company Name: [redacted]

Address: [redacted]

City: [redacted] State: [redacted] Zip Code: [redacted]

Attention: Accounts Payable Phone: [redacted] Fax: [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name: Dubois Alkaline Algecide

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

Unwanted algicide MSDS not available, see attached chemical analysis.

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: ☐ Non Hazardous Liquid Industrial Waste X Hazardous Waste
2. Regulated by TSCA? ☐Yes XNo (PCBs, etc.)
3. List ALL Applicable Waste Codes: D002 _____ _____ _____ _____ _____ _____ _____ _____

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear	X 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐<0.8 X 1.0 – 1.2	accepted 04.09.15
XBlack/Brown	☐ 1-3 % ☐ > 5%	☐ Bi-Layered	☐ 0.8 –1.0 ☐ 1.3 – 1.4	
☐ Other Amber		X Single Phase	Exact / Other _____	

pH: ☐ NA ☐ ≤ 2 ☐ 2 – 4 ☐ 4 – 6 ☐ 6 – 8 ☐ 8 – 10 ☐ 10 – 12.5 X ≥ 12.5

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

VOC CONCENTRATION - _____ **< 1%** _____ **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
Alkaline Algecide	100 – 100 %				
Monoethylamine , triethanolamine, quantinary ammonia compounds					
		%			
		%			
		%			

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

	Not Present	Concentration		Not Present	Concentration
PCB	X	____ppm	Aromatic Amine	X	____ ppm
Dioxins	X	____ppm	Pesticides	X	____ ppm
Cyanides Reactive	X	____ppm	Rodenticides	X	____ ppm
Cyanides Total	X	____ppm	Fungicides	X	____ ppm
Sulfides Reactive	X	____ppm			
Sulfides Total	X	____ppm			

Arsenic (As)	D004	X	< 5	ppm	____	ppm
Barium (Ba)	D005	X	<100	ppm	____	ppm
Cadmium (Cd)	D006	X	< 1	ppm	____	ppm
Chromium (Cr)	D007	X	< 5	ppm	____	ppm
Lead (Pb)	D008	X	< 5	ppm	____	ppm
Mercury (Hg)	D009	X	< 0.2	ppm	____	ppm
Selenium (Se)	D010	X	< 1	ppm	____	ppm
Silver (Ag)	D011	X	< 5	ppm	____	ppm

TCLP Organics D012 – D043 above regulatory limits: Present ☐ Not Present X

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 X **None Apply**

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? XYes ☐No
2. Reportable Quantity (RQ) in pounds ____100_____
3. DOT Shipping Name: Waste Corrosive Liquid, Basic, Organic, NOS Hazard Class 8 UN/NA 3267

PG _II_____ ERG 153 Hazardous Constituents for "n.o.s." (monoethylamine, triethanolamine)

4. Method of Shipment: ☐Bulk Tanker ☐Vac truck ☐Rail Car X Drums ☐Totes
5. Number of Units to Ship Now: 1 (1-55 gallon drum with 3 leaking 5 gallon pails inside.)
6. Anticipated Volume / Units per Year: _____ or X 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 warrant 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 [redacted] Title [redacted]

Generator's Signature: [redacted] Date: [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

PLEASE collect a representative 1-quart sample the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample i 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-Technologi 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

Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

Certificate of Analysis

Date: March 30, 2015

Customer: [redacted]

Project Name:
Project Number: [redacted]
Submit Date: 3/24/2015
Collection Date: 3/23/2015

Lab Sample ID: [redacted]

Sample ID: 16: Alkaline Algaecide

Parameters	Result	LRL	Units	Method Reference	Analysis Date	Analyst
Flashpoint	DNF	200	°F	SW846 1010	3/24/2015	EDW
pH	13.8	1-14		SW846 9045C	3/24/2015	LLW
TCLP Metals Analysis						
Arsenic	ND	0.5	mg/L	SW846 7060	3/30/2015	LLW
Barium	ND	0.5	mg/L	SW846 7081	3/30/2015	LLW
Cadmium	ND	0.5	mg/L	SW846 7130	3/27/2015	LLW
Chromium	ND	0.5	mg/L	SW846 7190	3/27/2015	LLW
Lead	ND	0.5	mg/L	SW846 7420	3/27/2015	LLW
Mercury	ND	0.1	mg/L	SW846 7471	3/27/2015	LLW
Selenium	ND	0.5	mg/L	SW846 7740	3/30/2015	LLW
Silver	ND	0.5	mg/L	SW846 7761	3/27/2015	LLW

Parameter- The analysis performed or name of the chemical analyzed.
Result- The reported concentration in the sample at or above reg level
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Units- The unit which corresponds to the reported concentration
Method Reference- The method used to provide results.
Analysis Date- Date the analysis was performed
Analyst- Initials of the analyst performing the analysis
ND- Parameter not detected above the reported LRL

Reviewed By: Larri White

Date: 3/30/2015

FINGERPRINT FORM

00637

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/8/15
Receiving ID#	99405
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION (All Waste Streams)		(Oilfield Brine/S Oil)	
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.)	13.0	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm) Tucks T.P. Brown		Carbonate	
Specific Gravity	1.05	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	69°F		
Conductivity	85.3 mS		
% Solids	6.8		
Turbidity	(Yes) No		
Color (visual)	DK. Brown		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

[redacted]

EGT Generator Waste Profile

Profile# 00638

GENERATOR INFORMATION

Name: [redacted] USEPA ID # [redacted]

Facility Address: [redacted] SIC/NAICS Code: State Code:

City: [redacted] State: [redacted] Zip Code: [redacted]

Contact: [redacted] Phone: [redacted] Fax: ( )

Company Name: [redacted]

Address: [redacted]

City: [redacted] State: [redacted] Zip Code: [redacted]

Attention: [redacted] Phone: [redacted] Fax: [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Battery Acid

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

Acid is Removed From old batteries and Stored in Totes

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:	Suspended Solids	Layers:	Specific Gravity:	
☒ White/Clear	☒ 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐ <0.8 ☒ 1.0 – 1.2	acceptable
☐ Black/Brown	☐ 1-3 % ☐ > 5%	☐ Bi-Layered	☐ 0.8 –1.0 ☐ 1.3 – 1.4	
☐ Other		☒ Single Phase	Exact / Other 1.19	04/16/15

pH: ☐ NA ☒ ≤ 2 ☐ 2 – 4 ☐ 4 – 6 ☐ 6 – 8 ☐ 8 – 10 ☐ 10 – 12.5 ☐ ≥12.5

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

VOC CONCENTRATION - -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
Sulfuric Acid	40	1 %		-	%
Water	99	1 %		-	%
Metals	6	1 %		-	%
	-	%		-	%
	-	%		-	%

[redacted]

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		____ppm	Aromatic Amine		____ppm
Dioxins		____ppm	Pesticides		____ppm
Cyanides Reactive		____ppm	Rodenticides		____ppm
Cyanides Total		____ppm	Fungicides		____ppm
Sulfides Reactive		____ppm			
Sulfides Total	☐	____ppm			

Arsenic (As)	D004	☐ < 5 ppm	____ppm	
Barium (Ba)	D005	☐ <100 ppm	____ppm	
Cadmium (Cd)	D006	< 1 ppm	____ppm	
Chromium (Cr)	D007	< 5 ppm	____ppm	
Lead (Pb)	D008	< 5 ppm	____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 RQ waste Sulfuric Acid, Spent Hazard Class 8 UN/NA 1832
PG II ERG _____ Hazardous Constituents for "n.o.s."
4. Method of Shipment: ☒Bulk Tanker ☐Vac truck ☐Rail Car ☐Drums ☒Totes
5. Number of Units to Ship Now: _____ 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 and/or regulatory requirements.

Printed Name: [redacted] Title: [redacted]

Generator's Signature: [redacted] Date: [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. 2. _____ **SAMPLING METHOD**
COLLECTION POINT

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

4. **Sample No.** _____ **Preservation: Yes** ☐ **No** ☐

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

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

FINGERPRINT FORM

e e 6 3 8

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/15/15
Receiving ID#	Battery Acid
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	S.M.
Sampled by	Client

LAB INFORMATION All Waste Streams		Aqueous Streams Only	
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	1.19	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	59°F		
Conductivity	> 400.0 mS		
% Solids	0.6		
Turbidity	Yes (No)		
Color (visual)	Colorless		
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 # 00639

GENERATOR INFORMATION

Name: [redacted] USEPA ID # _____

Facility Address: [redacted] SIC/NAICS Code: _____ 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: < SAME >

Address: _____

City: _____ State: _____ Zip Code: _____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

CHROME STRIP LIQUID

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

CHROME STRIP LIQUID (34a) - High pH MATERIAL, CAUSTIC, phosphates,

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 D007 D008 _____ _____ _____ _____ _____ _____

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear	☒ 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐ <0.8 ☒ 1.0 – 1.2	accepted
☐ Black/Brown	☐ 1-3 % ☐ > 5%	☐ Bi-Layered	☐ 0.8 – 1.0 ☐ 1.3 – 1.4	04.16.15
☒ Other Yellow		☒ Single Phase	Exact / Other 1.10	

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
Cinnamic Acid	1	0 %			%
Caustics	30	1 %			%
phosphates	2	0 %			%
		%			%
		%			%

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

	Not Present	Concentration		Not Present	Concentration
PCB	☐	____ppm	Aromatic Amine	☐	____ ppm
Dioxins	☐	____ppm	Pesticides	☐	____ ppm
Cyanides Reactive	☐	____ppm	Rodenticides	☐	____ ppm
Cyanides Total	☐	____ppm	Fungicides	☐	____ ppm
Sulfides Reactive	☐	____ppm			
Sulfides Total	☐	____ppm			

Arsenic (As)	D004	☐	< 5	ppm	____ ppm
Barium (Ba)	D005	☐	<100	ppm	____ ppm
Cadmium (Cd)	D006	☐	< 1	ppm	____ ppm
Chromium (Cr)	D007	☑	< 5	ppm	____ ppm
Lead (Pb)	D008	☑	< 5	ppm	____ 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 RQ Waste Corrosive Liquid, basic, inorganic, NOS Hazard Class 8 UN/NA 3267
PG II ERG _____ Hazardous Constituents for "n.o.s." _____
4. Method of Shipment: ☐ Bulk Tanker ☐ Vac truck ☐ Rail Car ☑ Drums ☐ Totes
5. Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: 8 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 warran 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: [redacted] Title: [redacted]

Generator's Signature: [redacted] Date: [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

PLEASE collect a representative 1-quart sample the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample 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-Technologi 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

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/15/15
Receiving ID#	Chrome Strip
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION (WASTE SUBMITTED)		Other Information	
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.)	13.3	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.10	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	64°F		
Conductivity	108.5 mS		
% Solids	15.4		
Turbidity	Yes (No)		
Color (visual)	Yellow		
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 # 0064

GENERATOR INFORMATION

Name: [redacted] USEPA ID # [redacted]

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

City: [redacted] State: [redacted] Zip Code: [redacted]

Contact: [redacted] Title: [redacted] Phone: [redacted] Fax: [redacted]

BILLING INFORMATION

☒ SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Rust Inhibitor

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

Sodium Nitrate Solution

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: 029C

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☒ White/Clear	☐ 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐ <0.8 ☐ 1.0 – 1.2	acceptable 04.30.15
☐ Black/Brown	☐ 1-3 % ☐ > 5%	☐ Bi-Layered	☐ 0.8 – 1.0 ☐ 1.3 – 1.4	
☐ Other _____		☒ Single Phase	Exact / Other _____	

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
Sodium Nitrate	12	0 %			%
Water	99	88 %			%
		%			%
		%			%
		%			%

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	☐	____ ppm	Aromatic Amine	☒	____ ppm
Dioxins	☐	____ ppm	Pesticides	☐	____ ppm
Cyanides Reactive	☐	____ ppm	Rodenticides	☐	____ ppm
Cyanides Total	☐	____ ppm	Fungicides	☐	____ ppm
Sulfides Reactive	☐	____ ppm			
Sulfides Total	☐	____ ppm			

Arsenic (As)	D004	☐ < 5 ppm		____ ppm
Barium (Ba)	D005	☐ <100 ppm		____ ppm
Cadmium (Cd)	D006	☐ < 1 ppm		____ ppm
Chromium (Cr)	D007	☐ < 5 ppm		____ ppm
Lead (Pb)	D008	☐ < 5 ppm		____ 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 Sodium Nitrite Solution Hazard Class 5.1 (UN)NA 1499

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

4. Method of Shipment: ☐ Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☐ Totes
5. Number of Units to Ship Now: _____ 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 [redacted]

Printed Name: [redacted] Title: [redacted]

Generator's Signature: [redacted] Date: [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. grab — SAMPLING METHOD
2. rust inhibitor tank — 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
			[redacted]	[redacted]	

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9/17/15
Receiving ID#	Rust Inhibitor
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION For All Waste Streams		For Brine Only	
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.)	9.4	Sodium Chloride	
Cyanides? (mg/L)	< 30	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	70°F		
Conductivity	24.1 mS		
% Solids	2.5		
Turbidity	(Yes) No		
Color (visual)	Brown		
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 # 00643

GENERATOR INFO
Name: [redacted] USEPA ID # [redacted]
Facility Address: [redacted] SIC/NAICS Code: State Code:
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] State: [redacted] Code: [redacted]
Attention: [redacted] Fax: ( )

313 - 724 - 8600

WASTE INFORMATION
Name of Waste/Common Chemical Name:
Hydro demolition Water

Process Generating Waste (Please be specific, incomplete information may delay the approval process):
Hydrodemolition of concrete bridge deck

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: ~~D001~~ D002 50

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☒ White/Clear ☐ Black/Brown ☐ Other	☐ 0-1 % ☐ 1-3 % ☐ 3-5 % ☐ > 5%	☐ Multi-Layered ☐ Bi-Layered ☐ Single Phase	☐ <0.8 ☐ 0.8 – 1.0 ☐ 1.0 – 1.2 ☐ 1.3 – 1.4 Exact / Other	accepted 09-2115

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	100	99 %			%
Particles	1	0 %			%
		%			%
		%			%
		%			%
		%			%

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

	Not Present	Concentration		Not Present	Concentration
PCB	☒	____ ppm	Aromatic Amine	☒	____ ppm
Dioxins	☒	____ ppm	Pesticides	☒	____ ppm
Cyanides Reactive	☒	____ ppm	Rodenticides	☐	____ ppm
Cyanides Total	☒	____ ppm	Fungicides	☐	____ ppm
Sulfides Reactive	☒	____ ppm			
Sulfides Total	☒	____ ppm			

Arsenic (As)	D004	☒	< 5	ppm	____	ppm
Barium (Ba)	D005	☒	<100	ppm	____	ppm
Cadmium (Cd)	D006	☒	< 1	ppm	____	ppm
Chromium (Cr)	D007	☐	< 5	ppm	____	ppm
Lead (Pb)	D008	☐	< 5	ppm	____	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 Non-Corrosive Liquid, n.o.s. Hazard Class 8 UN/NA 1760
PG I ERG ____ Hazardous Constituents for "n.o.s." ____
4. Method of Shipment: ☐ Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☐ Totes
5. Number of Units to Ship Now: ____ 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 and/or regulatory requirements.

Printed Name: [redacted] Title: [redacted]

Generator's Signature: [redacted] Date: [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. ____ 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

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

Generator Waste Profile

Profile # 00644

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] State: [redacted] Zip Code: [redacted]

Attention: [redacted] Phone: [redacted] Fax [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Fire Suppression Dike Water

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

Fire suppression water collected in secondary containment of chromated copper arsenate solution tanks and various oil bearing equipment

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: F035 D004 D007 D002 _____ _____ _____ _____ _____

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:
☐ White/Clear	☒ 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐ <0.8 ☒ 1.0 – 1.2
☐ Black/Brown	☐ 1-3 % ☐ > 5%	☐ Bi-Layered	☐ 0.8 –1.0 ☐ 1.3 – 1.4
☒ Other Light Green		☒ Single Phase	Exact / Other _____

accepted 04.24.15

pH: ☐ NA ☐ ≤ 2 ☐ 2 – 4 ☒ 4 – 6 ☐ 6 – 8 ☐ 8 – 10 ☐ 10 – 12.5 ☐ ≥12.5

Liquid Flash Point: ☐ <73°F ☐ 73 – 100°F ☐ 101 – 140°F ☐ 141 – 200°F ☒ >200°F ☐ None ☑ Closed Cup ☐ Open Cup

VOC Concentration = 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	
Fire Suppression Water	100	98	%				%
Chromic Acid	1	0	%				%
Arsenic Acid	1	0	%				%
Copper Oxide	1	0	%				%
Oil	2	0	%				%

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

	Not Present	Concentration		Not Present	Concentration
PCB	☒	____ ppm	Aromatic Amine	☒	____ ppm
Dioxins	☒	____ ppm	Pesticides	☒	____ ppm
Cyanides Reactive	☒	____ ppm	Rodenticides	☒	____ ppm
Cyanides Total	☒	____ ppm	Fungicides	☒	____ ppm
Sulfides Reactive	☒	____ ppm			
Sulfides Total	☒	____ ppm			

Arsenic (As)	D004	☐ < 5 ppm	4.6-11.3 ppm
Barium (Ba)	D005	☒ <100 ppm	2.2-2.5 ppm
Cadmium (Cd)	D006	☒ < 1 ppm	0.038 ppm
Chromium (Cr)	D007	☐ < 5 ppm	6.8-14.2 ppm
Lead (Pb)	D008	☒ < 5 ppm	____ 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 Hazardous Waste, Liquid, n.o.s. Hazard Class 3082 UN/NA NA

PG III ERG 171 Hazardous Constituents for "n.o.s." arsenic, chromium

4. Method of Shipment: ☒ Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☐ Totes
5. Number of Units to Ship Now: 4 6. Anticipated Volume / Units per Year: 65,000 gallons 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: [redacted] Title: [redacted]

Generator's Signature: [redacted] Date: [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. _____ **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

SOS ANALYTICAL
4125 Cedar Run Rd., Suite B
Traverse City, MI 49684
Phone 231-946-6767
Fax 231-946-8741
www.sosanalytical.com

COMPANY: [redacted]

NAME:
PROJECT NO:
WSSN:
WELL PERMIT:
TAX ID:
LOCATION:

COUNTY:
TWP:

SOS PROJECT NO: [redacted]
SAMPLED BY:

DATE RECEIVED: 12/1/2014
TIME RECEIVED: 10:15 AM
SAMPLE ID: GREEN FRAC TANK

DATE SAMPLED: 11/28/2014
TIME SAMPLED: 3:00 PM
SAMPLE MATRIX: LIQUID

EPA 1311 TCLP - METALS and FLASHPOINT

Analysis	Concentration	LOD	Units	Analyst	Date Completed	Digestion Method
ARSENIC EPA 6020-TCLP	4.6	0.2	mg/L (PPM)	RS	12/3/2014	
BARIUM EPA 6020-TCLP	2.5	2.0	mg/L (PPM)	RS	12/3/2014	
CADMIUM EPA 6020-TCLP	ND	0.010	mg/L (PPM)	RS	12/3/2014	
CHROMIUM EPA 6020-TCLP	6.8	1.0	mg/L (PPM)	RS	12/3/2014	
FLASHPOINT EPA 1010	> 100		DEGREES C	JFN	12/3/2014	
LEAD EPA 6020-TCLP	ND	0.02	mg/L (PPM)	RS	12/3/2014	
MERCURY EPA 7470-TCLP	ND	0.005	mg/L (PPM)	RS	12/3/2014	
SELENIUM EPA 6020-TCLP	ND	0.05	mg/L (PPM)	RS	12/3/2014	
SILVER EPA 6020-TCLP	ND	0.005	mg/L (PPM)	RS	12/3/2014	

ND = NOT DETECTED
LOD = LIMIT OF DETECTION
FLAA = FLAME ATOMIC ABSORPTION
GFAA = GRAPHITE FURNACE ATOMIC ABSORPTION
CV = COLD VAPOR AA ANALYSIS
SMCL = FEDERAL NON-ENFORCEABLE LIMIT
MCL = MAXIMUM CONTAMINANT LEVEL
DISS = DISSOLVED

APPROVED BY: Shanna Shea
SHANNA SHEA
LAB MANAGER

SOS ANALYTICAL, INC. IS CERTIFIED FOR COMPLIANCE MONITORING UNDER THE SAFE DRINKING WATER ACT

SOS ANALYTICAL

4125 Cedar Run Rd., Suite B
Traverse City, MI 49684
Phone 231-946-6767
Fax 231-946-8741
www.sosanalytical.com

COMPANY: [redacted]

NAME:
PROJECT NO:
WSSN:
WELL PERMIT:
TAX ID:
LOCATION: [redacted]

COUNTY:
TWP:

SOS PROJECT NO: [redacted]
SAMPLED BY:

DATE RECEIVED: 12/1/2014
TIME RECEIVED: 10:15 AM
SAMPLE ID: RED FRAC TANK

DATE SAMPLED: 11/28/2014
TIME SAMPLED: 4:00 PM
SAMPLE MATRIX: LIQUID

EPA 1311 TCLP - METALS and FLASHPOINT

Analysis	Concentration	LOD	Units	Analyst	Date Completed	Digestion Method
ARSENIC EPA 6020-TCLP	11.3	0.1	mg/L (PPM)	RS	12/3/2014	
BARIUM EPA 6020-TCLP	2.2	2.0	mg/L (PPM)	RS	12/3/2014	
CADMIUM EPA 6020-TCLP	0.038	0.010	mg/L (PPM)	RS	12/3/2014	
CHROMIUM EPA 6020-TCLP	14.2	1.0	mg/L (PPM)	RS	12/3/2014	
FLASHPOINT EPA 1010	> 100		DEGREES C	JFN	12/3/2014	
LEAD EPA 6020-TCLP	ND	0.02	mg/L (PPM)	RS	12/3/2014	
MERCURY EPA 7470-TCLP	ND	0.005	mg/L (PPM)	RS	12/3/2014	
SELENIUM EPA 6020-TCLP	ND	0.05	mg/L (PPM)	RS	12/3/2014	
SILVER EPA 6020-TCLP	ND	0.005	mg/L (PPM)	RS	12/3/2014	

ND = NOT DETECTED
LOD = LIMIT OF DETECTION
FLAA = FLAME ATOMIC ABSORPTION
GFAA = GRAPHITE FURNACE ATOMIC ABSORPTION
CV = COLD VAPOR AA ANALYSIS
SMCL = FEDERAL NON-ENFORCEABLE LIMIT
MCL = MAXIMUM CONTAMINANT LEVEL
DISS = DISSOLVED

APPROVED BY: Shanna Shea
SHANNA SHEA
LAB MANAGER

SOS ANALYTICAL

4125 Cedar Run Rd., Suite B
Traverse City, MI 49684
Phone 231-946-5767
Fax 231-946-8741
www.sosanalytical.com

COMPANY:	[redacted]	SOS PROJECT NO:	[redacted]
PROJECT:	[redacted]	SAMPLED BY:	[redacted]
DATE SAMPLED:	[redacted]	SAMPLE ID:	GREEN FRAC TANK
TIME SAMPLED:	3:00 PM	DATE RECEIVED:	12/1/2014
SAMPLE MATRIX:	LIQUID	TIME RECEIVED:	10:15 AM

TCLP VOLATILES ZHE/8260

Analysis	Concentration	LOD	Units	Analyst	Date Extracted	Date Completed	Prep Method
Benzene	ND	50	ug/L (PPB)	RS	11/2/2014	11/2/2014	EPA 1311
Carbon Tetrachloride	ND	50					
Chlorobenzene	ND	50					
Chloroform	ND	50					
1,2-Dichloroethane	ND	50					
1,1-Dichloroethene	ND	50					
Methyl Ethyl Ketone	ND	250					
Tetrachloroethene	ND	50					
Trichloroethene	ND	50					
Vinyl Chloride	ND	50					
1,2-Dichlorobenzene	ND	50					

ND = NOT DETECTED
LOD = LIMIT OF DETECTION

APPROVED Shanna Shea

SHANNA SHEA / LAB MANAGER
R. SIMMERMAN / ORGANIC CHEMIST

SOS ANALYTICAL

4125 Cedar Run Rd., Suite B
Traverse City, MI 49684
Phone 231-946-6767
Fax 231-946-8741
www.sosanalytical.com

COMPANY:	[redacted]	SOS PROJECT NO:	[redacted]
PROJECT:	[redacted]	SAMPLED BY:	[redacted]
DATE SAMPLED:	[redacted]	SAMPLE ID:	RED FRAC TANK
TIME SAMPLED:	4:00 PM	DATE RECEIVED:	12/1/2014
SAMPLE MATRIX:	LIQUID	TIME RECEIVED:	10:15 AM

TCLP VOLATILES ZHE/8260

Analysis	Concentration	LOD	Units	Analyst	Date Extracted	Date Completed	Prep Method
Benzene	ND	50	ug/L (PPB)	RS	11/2/2014	11/2/2014	EPA 1311
Carbon Tetrachloride	ND	50					
Chlorobenzene	ND	50					
Chloroform	ND	50					
1,2-Dichloroethane	ND	50					
1,1-Dichloroethene	ND	50					
Methyl Ethyl Ketone	ND	250					
Tetrachloroethene	ND	50					
Trichloroethene	ND	50					
Vinyl Chloride	ND	50					
1,2-Dichlorobenzene	ND	50					

ND = NOT DETECTED
LOD = LIMIT OF DETECTION

APPROVED

SHANNA SHEA / LAB MANAGER
R. SIMMERMAN / ORGANIC CHEMIST

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www.sosanalytical.com

COMPANY: [redacted]

PROJECT: [redacted]

LOCATION: [redacted]

SOS PROJECT NO: [redacted]
SAMPLED BY:: [redacted]

DATE SAMPLED: 11/28/2014
TIME SAMPLED: 4:00 PM

SAMPLE MATRIX: LIQUID W/ OIL & SOLID PHASES
DATE RECEIVED: 12/1/2014
TIME RECEIVED: 10:15 AM
SAMPLE ID: RED FRAC TANK

EPA 8270/1311 TCLP SEMI-VOLATILE ORGANICS

Analysis	Concentration	LOD	Units	Analyst	Date Extracted	Date Completed	Prep Method
1,4-DICHLOROBENZENE	ND	0.10	mg/L (PPM)	FT	12/3/2014	12/5/2014	1311/3510C
2,4,5-TRICHLOROPHENOL	ND	0.10	mg/L (PPM)				
2,4,6-TRICHLOROPHENOL	ND	0.10	mg/L (PPM)				
2,4-DINITROTOLUENE	ND	0.025	mg/L (PPM)				
HEXACHLOROBENZENE	ND	0.025	mg/L (PPM)				
HEXACHLOROBUTADIENE	ND	0.10	mg/L (PPM)				
HEXACHLOROETHANE	ND	0.10	mg/L (PPM)				
p,m-CRESOL (3&4-METHYLPHENOL)	ND	0.10	mg/L (PPM)				
NITROBENZENE	ND	0.10	mg/L (PPM)				
o-CRESOL (2-METHYLPHENOL)	ND	0.10	mg/L (PPM)				
PENTACHLOROPHENOL	ND	0.10	mg/L (PPM)				
PYRIDINE	ND	0.10	mg/L (PPM)				

ND = NOT DETECTED
LOD = LIMIT OF DETECTION

APPROVED

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Fax 231-946-8741
www.sosanalytical.com

COMPANY: [redacted]

PROJECT: [redacted]

LOCATION: [redacted]

SOS PROJECT NO: [redacted]
SAMPLED BY:: [redacted]

DATE SAMPLED: 11/28/2014
TIME SAMPLED: 3:00 PM

SAMPLE MATRIX: LIQUID W/ OIL & SOLID PHASES
DATE RECEIVED: 12/1/2014
TIME RECEIVED: 10:15 AM
SAMPLE ID: GREEN FRAC TANK

EPA 8270/1311 TCLP SEMI-VOLATILE ORGANICS

Analysis	Concentration	LOD	Units	Analyst	Date Extracted	Date Completed	Prep Method
1,4-DICHLOROBENZENE	ND	0.10	mg/L (PPM)	FT	12/3/2014	12/5/2014	1311/3510C
2,4,5-TRICHLOROPHENOL	ND	0.10	mg/L (PPM)				
2,4,6-TRICHLOROPHENOL	ND	0.10	mg/L (PPM)				
2,4-DINITROTOLUENE	ND	0.025	mg/L (PPM)				
HEXACHLOROBENZENE	ND	0.025	mg/L (PPM)				
HEXACHLOROBUTADIENE	ND	0.10	mg/L (PPM)				
HEXACHLOROETHANE	ND	0.10	mg/L (PPM)				
p,m-CRESOL (3&4-METHYLPHENOL)	ND	0.10	mg/L (PPM)				
NITROBENZENE	ND	0.10	mg/L (PPM)				
o-CRESOL (2-METHYLPHENOL)	ND	0.10	mg/L (PPM)				
PENTACHLOROPHENOL	ND	0.10	mg/L (PPM)				
PYRIDINE	ND	0.10	mg/L (PPM)				

ND = NOT DETECTED
LOD = LIMIT OF DETECTION

APPROVED

SHANNA SHEA / LAB MANAGER
R. SIMMERMAN / ORGANIC CHEMIST

SOS ANALYTICAL

4125 Cedar Run Rd., Suite B
Traverse City, MI 49684
Phone 231-946-6767
Fax 231-946-8741
www.sosanalytical.com

COMPANY: [redacted]

NAME:
PROJECT NO:
WSSN:
WELL PERMIT:
TAX ID:
LOCATION: [redacted]

COUNTY:
TWP:

SOS PROJECT NO: [redacted]
SAMPLED BY:

DATE SAMPLED: 11/28/2014
TIME SAMPLED: 3:00 PM
SAMPLE MATRIX: LIQUID
DATE RECEIVED: 12/1/2014
TIME RECEIVED: 10:15 AM

WET CHEMISTRY

No:	Analysis	Concentration	LOD	Units	Analyst	Date Completed	Drinking Water Reg Limit(MCL)
SAMPLE ID: GREEN FRAC TANK							
1	pH EPA 9040	5.0	+/- 0.10	s.u.	KMJ	12/1/2014	
SAMPLE ID: RED FRAC TANK							
2	pH EPA 9040	4.8	+/- 0.10	s.u.	KMJ	12/1/2014	

ND = NOT DETECTED
LOD = LIMIT OF DETECTION
SMCL = FEDERAL NON-ENFORCEABLE LIMIT
MCL = MAXIMUM CONTAMINANT LEVEL
s.u. = STANDARD pH UNITS REPORTED AT 25 C

APPROVED BY: Shanna Shea
SHANNA SHEA

SOS ANALYTICAL, INC. IS CERTIFIED FOR COMPLIANCE MONITORING UNDER THE SAFE DRINKING WATER ACT.

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC
26470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

Profile # 00645

GENERATOR INFORMATION

Name: [redacted] USEPA ID #: [redacted]

Facility Address: [redacted] SIC/NAICS Code: State Code:

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] State: [redacted] Zip Code: [redacted]

Attention: [redacted] Phone: [redacted] Fax: [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name: Acid Liquids

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

Facility shut down

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear ☐ Black/Brown ☐ Other _Varies	☐ 0-1 % ☐ 3-5 % X 1-3 % ☐ > 5%	☐ Multi-Layered ☐ Bi-Layered X Single Phase	☐ <0.8 X 1.0 – 1.2 ☐ 0.8 – 1.0 ☐ 1.3 – 1.4 Exact / Other	acceptable 04.20.15

pH: ☐ NA X ≤ 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 X >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
See [redacted] list	-	%		-	%
	-	%		-	%
	-	%		-	%
	-	%		-	%
	-	%		-	%

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

	Not Present	Concentration		Not Present	Concentration
PCB	X	____ ppm	Aromatic Amine	X	____ ppm
Dioxins	X	____ ppm	Pesticides	X	____ ppm
Cyanides Reactive	X	____ ppm	Rodenticides	X	____ ppm
Cyanides Total	X	____ ppm	Fungicides	X	____ ppm
Sulfides Reactive	X	____ ppm			
Sulfides Total	X	____ ppm			

Arsenic (As)	D004	X < 5	ppm	____	ppm
Barium (Ba)	D005	X <100	ppm	____	ppm
Cadmium (Cd)	D006	X < 1	ppm	____	ppm
Chromium (Cr)	D007	X < 5	ppm	____	ppm
Lead (Pb)	D008	X < 5	ppm	____	ppm
Mercury (Hg)	D009	X < 0.2	ppm	____	ppm
Selenium (Se)	D010	X < 1	ppm	____	ppm
Silver (Ag)	D011	X < 5	ppm	____	ppm

TCLP Organics D012 – D043 above regulatory limits: Present ☐ Not Present X

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 XNone 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 UN1760, Waste corrosive liquids, N.O.S. Hazard Class 8 UN/NA _____

PG II ERG 154 Hazardous Constituents for "n.o.s." Phosphoric & sulphonic acid

4. Method of Shipment: ☐Bulk Tanker ☐Vac truck ☐Rail Car XDrums ☐Totes
5. Number of Units to Ship Now: 1 drum 6. Anticipated Volume / Units per Year: _____ or X 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: [redacted] Title: [redacted]

Generator's Signature [redacted] Date: [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. _____ 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

INVENTORY

Gen. Name [redacted] EPAID # [redacted]

Address [redacted] Drum # 001

City, State, Zip [redacted] Dr. Size & Type 55 gal

Shipping Name Waste Corrosive Liquid, N.O.S., 8, PG II UN or NA # UN1760

ERG # 154

	Chemical Name	QUANTITY (Volume)	State (S/L)	Cont. Type (Glass/QT)	EPA CODE
1.	Sulphuric Acid 4%	1 Pail	L	G	Sulphuric Acid
2.	Remedy Kodiak Plus	1 qrt	L	P	HCl
3.	United Labs Bio Clean Sulphuric Acid	1 qrt	L	P	Sulfuric Acid
4.	Muriatic Acid 31%	2-1 gal	L	P	HCl
5.	Jasco Metal Prep Etch Four Plus	1-1 gal	L	P	Phosphoric Acid
6.	United Labs Carbon	1-5 gal	L	P	Phosphoric Acid
7.	Permatex Anti Corrosive	1-5 gal	L	P	Phosphoric Acid
8.	Lovell Cont. Rust Remover	1 qrt	L	P	Mild Acid
9.	ACT Cleaner	1 Pt	L	P	Mild Acid
10.	FR Chemical	1 Pt	L	P	Mild Acid
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

Signature [redacted]

Date [redacted]

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

Generator Waste Profile

Profile # 00[illegible]

GENERATOR INFORMATION

Name: [redacted] USEPA ID #: [redacted]

Facility Address: [redacted] SIC/NAICS Code: State Code:

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] State: [redacted] Zip Code: [redacted]

Attention: [redacted] Phone: [redacted] Fax: [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name: Caustic liquids

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

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear ☐ Black/Brown ☐ Other _Varies	☐ 0-1 % ☐ 3-5 % X 1-3 % ☐ > 5%	☐ Multi-Layered ☐ Bi-Layered X Single Phase	☐ <0.8 X 1.0 – 1.2 ☐ 0.8 – 1.0 ☐ 1.3 – 1.4 Exact / Other _____	acceptable 04/2/15

pH: ☐ NA ☐ ≤ 2 ☐ 2 – 4 ☐ 4 – 6 ☐ 6 – 8 ☐ 8 – 10 ☐ 10 – 12.5 X ≥ 12.5

Liquid Flash Point: ☐ <73°F ☐ 73 – 100°F ☐ 101 – 140°F ☐ 141 – 200°F X >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
CW-21-L see MSDS	- %		R-4015-L See MSDS	- %	
LB-14 see msds	- %			- %	
CW-588L see MSDS	- %			- %	
A-4031-L See MSDS	- %			- %	
CW-761-L See MSDS	- %			- %	

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

	Not Present	Concentration		Not Present	Concentration
PCB	X	____ppm	Aromatic Amine	X	____ppm
Dioxins	X	____ppm	Pesticides	X	____ppm
Cyanides Reactive	X	____ppm	Rodenticides	X	____ppm
Cyanides Total	X	____ppm	Fungicides	X	____ppm
Sulfides Reactive	X	____ppm			
Sulfides Total	X	____ppm			

Arsenic (As)	D004	X < 5	ppm	____	ppm
Barium (Ba)	D005	X <100	ppm	____	ppm
Cadmium (Cd)	D006	X < 1	ppm	____	ppm
Chromium (Cr)	D007	X < 5	ppm	____	ppm
Lead (Pb)	D008	X < 5	ppm	____	ppm
Mercury (Hg)	D009	X <0.2	ppm	____	ppm
Selenium (Se)	D010	X < 1	ppm	____	ppm
Silver (Ag)	D011	X < 5	ppm	____	ppm

TCLP Organics D012 – D043 above regulatory limits: Present ☐ Not Present X

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 XNone Apply

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 178 Subpart D)? ☐Yes ☐No
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name UN1760, Waste corrosive liquids, N.O.S. Hazard Class 8 UN/NA _____

PG II ERG 154 Hazardous Constituents for "n.o.s." Sodium hydroxide & Potassium hydroxide

4. Method of Shipment: ☐Bulk Tanker ☐Vac truck ☐Rail Car XDrums ☐Totes
5. Number of Units to Ship Now: 6 drums 6. Anticipated Volume / Units per Year: _____ or X 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: [redacted] Title: [redacted]

Generator's Signa[redacted] Date: [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. _____ 2. _____
SAMPLING METHOD COLLECTION POINT

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

4. Sample No. _____ Preservation: Yes ☐ No ☐

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

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

Material Safety Data Sheet

1 Drum

Section I

Product Name	A-4031L		
Emergency Telephone No.	(616)241-4684	Date Issued	7/01/99
Manufacturer's Name and Address	Mitco, Inc. 1601 Steele S.W. Grand Rapids, MI 49507	Supersedes	8/24/95
		Chemical Family	Aqueous Mixture
Hazardous Material Description, Shipping Name Hazard Class, Hazard ID No. (49 CFR 172.101)	Corrosive Liquid, Basic, Organic, N.O.S., (Morpholine, Cyclohexylamine), 8, UN3267, III		

Section II - HAZARDOUS INGREDIENTS

	Listed as Carcinogen or Potential Carcinogen						Reporting Required
Chemical Name CAS Registry Number	National Toxicology Program	I.A.R.C. Mono-graphs	OSHA	OSHA Permissible Exposure Limit	ACGIH Threshold Limit Value	Other Exposure Limit	Sec. 313 of Title III and 40CFR372
Cyclohexylamine 108-91-8	No	No	No	N/A	10ppm	N/A	No
Diethylaminoethanol 100-37-8	No	No	No	50mg/M^3 (10ppm) (skin)	2ppm (skin)	N/A	No
Morpholine 110-91-8	No	No	No	70mg/M^3 (20ppm) (skin)	20ppm (skin)	N/A	No

Section III - PHYSICAL DATA

Boiling Point (°F)	212	Specific Gravity (H_2O = 1)	0.9-1.0
Vapor Pressure (mm Hg.)	17.5 @ 20°C	Percent, Volatile By Volume (%)	100
Vapor Density (AIR=1)	1 at 20°C	Evaporation Rate (WATER = 1)	1
Solubility in Water	Complete	pH	12.6
Appearance and Odor	Clear solution with amine odor.		

Section IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F)	142	Flammable Limits	LEL	1.6
Method Used	Setaflash CC		UEL	28.0
Extinguishing Media	Water fog, foam, carbon dioxide, dry chemical			
Special Fire Fighting Procedures	Fire fighters should be equipped with self-contained breathing apparatus.			
Unusual Fire and Explosion Hazards	Liquid is corrosive to skin and eyes.			

N/A = Not Applicable

Section V - HEALTH HAZARD DATA

Primary Routes of Entry	Inhalation	Yes	Skin Contact	Yes	Eyes	Yes
Effects of Overexposure	Corrosive to skin and eyes. Inhalation causes respiratory tract irritation and may result in pulmonary edema. Ingestion may result in severe gastric disturbances, including nausea and vomiting.					
Emergency and First Aid Procedures	EYES: Flush eyes with flowing water for at least 15 minutes and get medical attention. SKIN: Wash affected skin areas thoroughly with water while removing contaminated clothing. Get medical attention. Launder clothing before reuse. INGESTION: If swallowed, dilute with water or milk. Do NOT induce vomiting. Get immediate medical attention. INHALATION: If inhaled, move to fresh air. Aid in breathing, if necessary. Get medical attention.					

Section VI - REACTIVITY DATA

Stability	Unstable		Stable	X	Hazardous Polymerization	May Occur		Will not Occur	X
Conditions to Avoid	N/A								
Incompatibility (materials to avoid)	Mineral Acids								
Hazardous Decomposition Products	Oxides of nitrogen under burning conditions.								

Section VII - SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled	Flush small spills (less than 1 gallon) away with water. Absorb larger spills on sand or other inert material. Prevent spread of spill.
Waste Disposal Method	Incinerate in a furnace when permitted under appropriate federal, state, and local regulations.

Section VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection	Air-supplied mask in confined areas.						
Ventilation		Local Exhaust	Preferred	Mechanical (General)	acceptable	Special	N/A
Protective Gloves	Rubber			Eye Protection		Chemical Goggles.	
Other Protective Clothing or Equipment	Coverall, apron, boots as necessary to prevent skin contact.						

Section IX - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing	Keep container closed.
Other Precautions	N/A

N/A = Not Applicable

Section 1. Identification

GHS product identifier	: LB-14
Product code	: LB-14-005, LB-14-015, LB-14-055
SDS #	: LB-14
Other means of identification	: Not available.
Product type	: Liquid.

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

Identified uses	: Industrial
Supplier/Manufacturer	: DuBois Chemicals, Inc. 3630 E. Kemper Road Cincinnati, Ohio 45241 Phone: 1-800-438-2647 DuBois Chemicals Canada, Inc. 1155 North Service Road West Unit 6 Oakville, Ontario, L6M 3E3 Canada Phone: 1-866-861-3603
Emergency telephone number	: 1-866-923-4919 (US and Canada) 01-651-523-0314 (Int'l and Mexico)

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: CORROSIVE TO METALS - Category 1 ACUTE TOXICITY: ORAL - Category 4 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements

Hazard pictograms :

Signal word	: Danger
Hazard statements	: May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage.

Precautionary statements

Prevention	: Wear eye/face protection. Wear protective gloves. Avoid breathing vapor or mist. Wear protective clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: Absorb spillage to prevent material damage. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. 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 or physician.
Storage	: Store locked up. Store in corrosive resistant container with a resistant inner liner.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 2. Hazards identification

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
sodium hydroxide	30 - 40	1310-73-2
potassium hydroxide	10 - 20	1310-58-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact : Causes severe burns.

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
metal oxide/oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Handling : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	CAS #	ACGIH	OSHA	Mexico
sodium hydroxide	1310-73-2	C: 2 mg/m³	TWA: 2 mg/m³ 8 hours.	LMPE-Pico: 2 mg/m³
potassium hydroxide	1310-58-3	C: 2 mg/m³		

Engineering measures : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory : If a risk assessment indicates this is necessary, use a properly fitted, air-purifying or airfed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: splash goggles

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Personal protective equipment (Pictograms) :

Section 9. Physical and chemical properties

Appearance

Physical state	:	Liquid. [Viscous liquid.]
Color	:	Clear to Hazy Dark grey.
Odor	:	Odorless.
Odor threshold	:	Not available.
pH	:	13 [Conc. (% w/w): 1%]
Melting point	:	Not available.
Boiling point	:	137.78°C (280°F)
Flash point	:	Not available.
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.5
Solubility	:	Easily soluble in the following materials: cold water and hot water.
Solubility in water	:	Not available.
Partition coefficient: n-octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Elemental Phosphorus	:	Not available.
VOC content	:	Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	No specific data.
Incompatible materials	:	Not available.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Storage	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 11. Toxicological information

Information on toxicological effects

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact : Causes severe burns.

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	838.2 mg/kg
Dermal	3096.4 mg/kg

Section 12. Ecological information

Ecotoxicity : Not available.

Aquatic ecotoxicity

Not available.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification : D002 [Corrosive]

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

IATA/IMDG/DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 12(b) one-time export:** No products were found.

TSCA 12(b) annual export notification: No products were found.

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 311: sodium hydroxide; potassium hydroxide

CERCLA: Hazardous substances.: sodium hydroxide: 1000 lbs. (454 kg); potassium hydroxide: 1000 lbs. (454 kg);

EPA Registration Number : Not available.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

State regulations

Massachusetts : The following components are listed: SODIUM HYDROXIDE; POTASSIUM HYDROXIDE

New York : The following components are listed: Sodium hydroxide; Potassium hydroxide

New Jersey : The following components are listed: SODIUM HYDROXIDE; CAUSTIC SODA; POTASSIUM HYDROXIDE; CAUSTIC POTASH

Pennsylvania : The following components are listed: SODIUM HYDROXIDE (NA(OH)); POTASSIUM HYDROXIDE (K(OH))

California Prop. 65

Not available.

Section 15. Regulatory information

Canada

Canadian lists

Canadian NPRI : None of the components are listed.

Canada inventory : All components are listed or exempted.

Canadian PCP/DIN Number : Not available.

International regulations

International lists : **Australia inventory (AICS)**: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
Taiwan inventory (CSNN): Not determined.

Section 16. Other information

History

Date of printing : 12/17/2014.

Date of issue/Date of revision : 12/17/2014.

Date of previous issue : No previous validation.

Version : 1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Material Safety Data Sheet

2-20 gal Cont

Section I

Product Name	CW-961L		
Emergency Telephone No.	(616)241-4684	Date Issued	2/22/96
Manufacturer's Name and Address	Mitco, Inc. 1601 Steele S.W. Grand Rapids, MI 49507	Supersedes	2/6/91
		Chemical Family	Aqueous Mixture
Hazardous Material Description, Shipping Name Hazard Class, Hazard ID No. (49 CFR 172.101)	None		

Potassium Hydroxide

Section II - HAZARDOUS INGREDIENTS

	Listed as Carcinogen or Potential Carcinogen						Reporting Required
Chemical Name CAS Registry Number	National Toxicology Program	I.A.R.C. Mono-graph	OSHA	OSHA Permissible Exposure Limit	ACGIH Threshold Limit Value	Other Exposure Limit	Sec. 313 of Title III and 40CFR372
None							

Section III - PHYSICAL DATA

Boiling Point (°F)	212	Specific Gravity (H_2O = 1)	1.0-1.1
Vapor Pressure (mm Hg.)	17.5@20°C	Percent, Volatile By Volume (%)	N/A
Vapor Density (AIR = 1)	1	Evaporation Rate (Water = 1)	1
Solubility in Water	Complete	pH=	10.7
Appearance and Odor	Slightly yellow solution, with sweet odor		

Section IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F)	None	Flammable Limits	LEL	N/A
Method Used	N/A		UEL	N/A
Extinguishing Media	Not Flammable			
Special Fire Fighting Procedures	N/A			
Unusual Fire and Explosion Hazards	N/A			

N/A = Not Applicable

Section V - HEALTH HAZARD DATA

Primary Routes of Entry	Inhalation	No	Skin Contact	Yes	Eyes	Yes
Effects of Overexposure	Possible irritation to skin and eyes. Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin, and clothing.					
Emergency and First Aid Procedures	In case of contact with skin, wash at once with soap and water. For eyes, flush with water for at least 15 minutes and get medical attention. Wash contaminated clothing before reuse.					

Section VI - REACTIVITY DATA

Stability	Unstable		Stable	X	Hazardous Polymerization	May Occur		Will not Occur	X
Conditions to Avoid	N/A								
Incompatibility (materials to avoid)	None known								
Hazardous Decomposition Products	None known								

Section VII - SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled	Flush to sanitary sewer with large amount of water.
Waste Disposal Method	Use as intended in cooling tower.

Section VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection	Not necessary.						
Ventilation	Not Necessary	Local Exhaust	N/A	Mechanical (General)	N/A	Special	N/A
Protective Gloves	Not necessary			Eye Protection		Chemical goggles	
Other Protective Clothing or Equipment	Rubber apron and boots if contact appears likely						

Section IX - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing	Protect from freezing
Other Precautions	Wash contaminated clothing before reuse.

N/A = Not Applicable

Section 1. Identification

GHS product identifier	: CW-888L
Product code	: CW-888L-000, CW-888L-015, CW-888L-030, CW-888L-055, CW-888L-400
SDS #	: CW-888L
Other means of identification	: Not available.
Product type	: Liquid.

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

Identified uses	: Industrial
Supplier/Manufacturer	: DuBois Chemicals, Inc. 3630 E. Kemper Road Cincinnati, Ohio 45241 Phone: 1-800-438-2647 DuBois Chemicals Canada, Inc. 1155 North Service Road West Unit 6 Oakville, Ontario, L6M 3E3 Canada Phone: 1-866-861-3603
Emergency telephone number	: 1-866-923-4919 (US and Canada) 01-651-523-0314 (Int'l and Mexico)

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: CORROSIVE TO METALS - Category 1 SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements

Hazard pictograms :

Signal word	: Danger
Hazard statements	: May be corrosive to metals. Causes severe skin burns and eye damage.

Precautionary statements

Prevention	: Wear eye/face protection. Wear protective gloves. Avoid breathing vapor or mist. Wear protective clothing. Wash hands thoroughly after handling.
Response	: Absorb spillage to prevent material damage. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. 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 or physician.
Storage	: Store locked up. Store in corrosive resistant container with a resistant inner liner.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
sodium hypochlorite solution Cl active	10 - 20	7681-52-9
sodium hydroxide	1 - 5	1310-73-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact : Causes severe burns.

Ingestion : May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : No specific data.

Section 4. First aid measures

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
halogenated compounds
metal oxide/oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Handling : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	CAS #	ACGIH	OSHA	Mexico
sodium hydroxide	1310-73-2	C: 2 mg/m³	TWA: 2 mg/m³ 8 hours.	LMPE-Pico: 2 mg/m³

Engineering measures : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory : If a risk assessment indicates this is necessary, use a properly fitted, air-purifying or airfed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

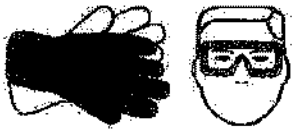
Hands : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: splash goggles

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Personal protective equipment (Pictograms) :



Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Yellow-Green [Light]
Odor	: Pungent. chlorine-based bleaching agents
Odor threshold	: Not available.
pH	: >12
Melting point	: Not available.
Boiling point	: Decomposes.
Flash point	: Not available.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.25
Solubility	: Easily soluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Elemental Phosphorus	: Not available.
VOC content	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Not available.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Storage	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 11. Toxicological information

Information on toxicological effects

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Sodium hypochlorite solution Cl active	-	3	-	-	-	-

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact : Causes severe burns.

Ingestion : May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological Information

Route	ATE value
Oral	25000 mg/kg
Dermal	56000 mg/kg

Section 12. Ecological information

Ecotoxicity : Not available.

Aquatic ecotoxicity

Not available.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification : D002 [Corrosive]

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

IATA/IMDG/DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 12(b) one-time export:** No products were found.

TSCA 12(b) annual export notification: No products were found.

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 311: Sodium hypochlorite solution Cl active; sodium hydroxide

CERCLA: Hazardous substances.: sodium hydroxide: 1000 lbs. (454 kg); Sodium hypochlorite solution Cl active: 100 lbs. (45.4 kg);

EPA Registration Number : Not available.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

State regulations

Massachusetts : The following components are listed: SODIUM HYPOCHLORITE; SODIUM HYDROXIDE

New York : The following components are listed: Sodium hypochlorite; Sodium hydroxide

Section 15. Regulatory information

New Jersey : The following components are listed: SODIUM HYPOCHLORITE; HYPOCHLOROUS ACID, SODIUM SALT; SODIUM HYDROXIDE; CAUSTIC SODA

Pennsylvania : The following components are listed: HYPOCHLOROUS ACID, SODIUM SALT; SODIUM HYDROXIDE (NA(OH))

California Prop. 65

Not available.

Canada

Canadian lists

Canadian NPRI : None of the components are listed.

Canada inventory : All components are listed or exempted.

Canadian PCP/DIN Number : Not available.

International regulations

International lists : **Australia inventory (AICS)**: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
Taiwan inventory (CSNN): Not determined.

Section 16. Other information

History

Date of printing : 12/16/2014.

Date of issue/Date of revision : 12/16/2014.

Date of previous issue : No previous validation.

Version : 1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MITCO, CO -- CW-21L -- 6850-00F005304

1- DRUM

Product Identification

Product ID:CW-21L
MSDS Date:01/01/1987
FSC:6850
NIIN:00F005304
MSDS Number: BBSFH
=== Responsible Party ===
Company Name:MITCO, CO/GRAND RAPIDS, MI 49507
Emergency Phone Num:(616) 241-4684
CAGE:FO047
=== Contractor Identification ===
Company Name:MITCO INC.
Address:1601 STEELE AVENUE S.W.
Box:City:GRAND RAPIDS
State:MI
ZIP:49507
Phone:(616) 241-4684
CAGE:45399
Company Name:MITCO, CO/GRAND RAPIDS, MI 49507
CAGE:FO047

Composition/Information on Ingredients

Ingred Name:SODIUM HYDROXIDE (SARA III)
CAS:1310-73-2
RTECS #:WB4900000
OSHA PEL:2 MG/M3
ACGIH TLV:C 2 MG/M3; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:SODIUM TETRABORATE, DECAHYDRATE
CAS:1303-96-4
RTECS #:VZ2275000
OSHA PEL:10 MG/M3
ACGIH TLV:5 MG/M3; 9192

Ingred Name:SODIUM NITRITE (SARA III)
CAS:7632-00-0
RTECS #:RA1225000
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Hazards Identification

Effects of Overexposure:SKIN IRRITATION. INGESTION RESULTS IN NAUSEA, VOMITING AND DIARRHEA.

First Aid Measures

First Aid:SKIN & EYE, FLUSH AFFECTED AREA WITH WATER. KEEP PATIENT PRONE AND WARM, ADMINISTER OXYGEN, AND CALL PHYSICIAN TO TREAT PATIENT FOR NITRITE POISONING.

Fire Fighting Measures

Flash Point:NONE
Extinguishing Media:NOT FLAMMABLE
Fire Fighting Procedures:NONE
Unusual Fire/Explosion Hazard:NONE

========== Accidental Release Measures ==========

Spill Release Procedures:FLUSH TO SANITARY SEWER WITH WATER.

========== Exposure Controls/Personal Protection ==========

Respiratory Protection:NORMALLY NOT NECESSARY.
Ventilation:NOT NECESSARY
Protective Gloves:RUBBER
Eye Protection:CHEMICAL GOGGLES
Other Protective Equipment:RUBBER APRON, AND SHOES IF CONTACT IS ANTICIPATED.
Supplemental Safety and Health
MSDS DATE: 10/1/85

========== Physical/Chemical Properties ==========

Boiling Pt:B.P. Text:215F
Vapor Pres:7.5
Vapor Density:1
Spec Gravity:1.17
Evaporation Rate & Reference:(WATER = 1): 1
Solubility in Water:COMPLETE
Appearance and Odor:CLEAR COLORLESS SOLUTION WITH PUNGENT ODOR.
Percent Volatiles by Volume:80%

========== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES
Hazardous Decomposition Products:OXIDES OF NITROGEN

========== Disposal Considerations ==========

Waste Disposal Methods:SAME AS SPILL PROCEDURE.

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

Generator Waste Profile

Profile # 00648

GENERATOR INFORMATION

Name: [redacted] USEPA ID # _____

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

City: [redacted] State: [redacted] Zip Code: [redacted]

Contac[redacted] Title [redacted] e: [redacted] Fax: [redacted]

BILLING INFORMATION

☒ SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Wastewater with metals

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

wastewaters that have been treated through AM's process(es).

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: D29L _____ _____ _____ _____ _____ _____ _____ _____

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:
☐ White/Clear	☒ 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐ <0.8 ☒ 1.0 – 1.2
☐ Black/Brown	☐ 1-3 % ☐ > 5%	☐ Bi-Layered	☐ 0.8 –1.0 ☐ 1.3 – 1.4
☒ Other Light Gray		☒ Single Phase	Exact / Other 1.03

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	100	99 %	/		
Non-regulated metals (Like Zinc)	1	0 %			
		%			
		%			
		%			

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

	Not Present	Concentration		Not Present	Concentration
PCB	☒	____ppm	Aromatic Amine	☒	____ ppm
Dioxins	☒	____ppm	Pesticides	☒	____ ppm
Cyanides Reactive	☒	____ppm	Rodenticides	☒	____ ppm
Cyanides Total	☒	____ppm	Fungicides	☒	____ ppm
Sulfides Reactive	☒	____ppm			
Sulfides Total	☒	____ppm			

Arsenic (As)	D004	☒	< 5	ppm	____	ppm
Barium (Ba)	D005	☒	<100	ppm	____	ppm
Cadmium (Cd)	D006	☒	< 1	ppm	____	ppm
Chromium (Cr)	D007	☒	< 5	ppm	____	ppm
Lead (Pb)	D008	☒	< 5	ppm	____	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 Non-Regulated Material Hazard Class _____ UN/NA _____

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

4. Method of Shipment: ☒Bulk Tanker ☐Vac truck ☐Rail Car ☐Drums ☐Totes
5. Number of Units to Ship Now: 1 6. Anticipated Volume / Units per Year: Variable 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 warrant 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: [redacted] Title: [redacted]

Generator's Signature: [redacted] Date: [redacted]

GENERATOR'S CHAIN-OF-CUSTODY RECORD INSTRUCTIONS: Please collect a representative 1-quart sample the waste described in the above-referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample i 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-Technologie representative.

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

3. [redacted]
SAMPLE COLLECTOR

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

FINGERPRINT FORM 20648

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/22/15
Receiving ID#	Wastewater w/ Metals
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	4.3	Sodium Chloride	
Cyanides? (mg/L)	< 30	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	64°F		
Conductivity	27.9mS		
% Solids	2.7		
Turbidity	Yes (No)		
Color (visual)	Colorless		
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 # 006479

GENERATOR INFORMATION

Name: [redacted] USEPA ID # [redacted]

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

City: [redacted] State: [redacted] Zip Code: [redacted]

Contact: [redacted] Phone: [redacted]

BILLING I[redacted] ☐ **SAME AS ABOVE**

Company Name: [redacted]

Address: [redacted]

City: [redacted] State: [redacted] Zip Code: [redacted]

Attention: [redacted] Phone: ([redacted] Fax: [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Alkaline Process Water

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

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 D007 _____ _____ _____ _____ _____ _____ _____

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear	☐ 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐ <0.8 ☐ 1.0 – 1.2	accepted 04.28.15
☐ Black/Brown	☐ 1-3 % ☐ > 5%	☐ Bi-Layered	☐ 0.8 –1.0 ☐ 1.3 – 1.4	
☐ Other _____		☐ Single Phase	Exact / Other _____	

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	100	99 %			%
Chrome		%			%
		%			%
		%			%
		%			%

27 ppm

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	☐	____ppm	Aromatic Amine	☐	____ ppm
Dioxins	☐	____ppm	Pesticides	☐	____ ppm
Cyanides Reactive	☐	____ppm	Rodenticides	☐	____ ppm
Cyanides Total	☐	____ppm	Fungicides	☐	____ ppm
Sulfides Reactive	☐	____ppm			
Sulfides Total	☐	____ppm			

Arsenic (As)	D004	☐	< 5 ppm	____	ppm
Barium (Ba)	D005	☐	<100 ppm	____	ppm
Cadmium (Cd)	D006	☐	< 1 ppm	____	ppm
Chromium (Cr)	D007	☐	< 5 ppm	27	ppm
Lead (Pb)	D008	☐	< 5 ppm	____	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 _____ Hazard Class _____ UN/NA _____

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

4. Method of Shipment: ☒Bulk Tanker ☐Vac truck ☐Rail Car ☐Drums ☐Totes
5. Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: 3500 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: [redacted] Title: [redacted]

Generator's Signature [redacted] Date: [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. _____ **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

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/28/15
Receiving ID#	Alkaline Process H2O
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION All Waste Streams		Offsite Brines only	
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)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.04	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil In Sample	Yes (No)		
Temperature	71° F		
Conductivity	57.6 mS		
% Solids	4.1		
Turbidity	(Yes) No		
Color (visual)	Brown		
TSS (%)	0.6		
Radiation Screen (as needed)	Negative		
Lab Signature			