



Environmental GEO-Technologies, LLC

August 29, 2014

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

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

Dear Mr. Batka:

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

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

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

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

Sincerely,

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

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

att.

rjp082914/EGTEPAMonthlyReport-July 2014

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2014

CURRENT REPORTING MONTH July

Date (month, year) of the first injection 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	122,874	0	122,874
Since facility first injected			590,660
MI-163-1W-C011, Well #2-12			
Current Month	2,075	0	2,075
Since facility first injected			893,104
		Lifetime Combined	1,483,764

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 9

9 lifetime number of months of injection × 43,830 minutes/month
= 394,470 minutes of injection

Lifetime combined injected volume 1,483,764 ÷ 394,470 minutes of injection
= 3.8 gpm average injection rate

WELL 1 DATA

SUMMARY OF OPERATING, MONITORING AND REPORTING REQUIREMENTS
Injection Well I

Month: July

Year: 2014

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

WELL 01 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
7/1/2014	120.00	723.00	21.80	25.00	0.00	1065.00	0.67	6.82	0.00	138.00	105.00	345.00
7/2/2014	0.00	66.00	23.10	23.50	219.00	363.00	0.52	0.55	0.00	0.00	180.00	306.00
7/3/2014	0.00	714.00	22.00	23.50	216.00	1050.00	0.27	1.24	0.00	156.00	183.00	333.00
7/4/2014	36.00	39.00	23.50	23.60	270.00	300.00	1.12	1.18	0.00	0.00	240.00	264.00
7/5/2014	30.00	39.00	23.40	23.50	297.00	300.00	1.15	1.21	0.00	0.00	237.00	243.00
7/6/2014	30.00	33.00	23.50	23.60	255.00	264.00	1.15	1.18	0.00	0.00	225.00	234.00
7/7/2014	30.00	720.00	22.00	23.50	240.00	1065.00	0.27	1.48	0.00	152.00	210.00	354.00
7/8/2014	75.00	720.00	21.90	23.70	285.00	1050.00	1.21	4.45	0.00	128.00	180.00	339.00
7/9/2014	60.00	720.00	21.90	23.00	270.00	1038.00	1.52	2.52	0.00	132.40	186.00	423.00
7/10/2014	52.50	717.00	22.00	23.50	267.00	999.00	1.64	2.73	0.00	37.20	276.00	303.00
7/11/2014	82.50	90.00	23.00	23.10	342.00	360.00	1.64	1.70	0.00	0.00	255.00	279.00
7/12/2014	75.00	81.00	23.10	23.20	333.00	345.00	1.58	1.61	0.00	0.00	246.00	270.00
7/13/2014	81.00	84.00	23.10	23.20	330.00	336.00	1.58	1.61	0.00	0.00	255.00	261.00
7/14/2014	75.00	78.00	23.10	23.20	330.00	333.00	1.58	1.67	0.00	0.00	255.00	258.00
7/15/2014	81.00	84.00	23.10	23.20	327.00	330.00	1.64	1.70	0.00	0.00	249.00	255.00
7/16/2014	120.00	564.00	19.00	23.80	0.00	327.00	0.79	8.03	0.00	0.00	0.00	525.00
7/17/2014	127.50	660.00	18.30	22.40	0.00	0.00	0.00	7.45	0.00	0.00	0.00	633.00
7/18/2014	112.50	717.00	18.00	22.00	0.00	0.00	0.00	7.58	0.00	0.00	0.00	690.00
7/19/2014	127.50	150.00	19.10	21.50	0.00	0.00	0.00	7.21	0.00	0.00	0.00	123.00
7/20/2014	150.00	150.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	120.00
7/21/2014	150.00	573.00	19.00	20.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	543.00
7/22/2014	82.50	270.00	19.30	22.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	240.00
7/23/2014	0.00	147.00	23.30	23.30	195.00	990.00	0.00	1.82	0.00	0.00	195.00	288.00
7/24/2014	0.00	0.00	23.30	23.40	195.00	204.00	1.18	1.52	0.00	0.00	192.00	198.00
7/25/2014	0.00	714.00	22.00	23.80	195.00	1023.00	1.18	1.61	0.00	120.00	195.00	330.00
7/26/2014	0.00	0.00	23.40	23.40	210.00	225.00	1.45	1.48	0.00	0.00	210.00	225.00
7/27/2014	0.00	0.00	23.40	23.50	204.00	210.00	1.39	1.45	0.00	0.00	198.00	210.00
7/28/2014	0.00	714.00	22.00	23.80	204.00	1014.00	1.21	4.09	0.00	100.00	204.00	309.00
7/29/2014	0.00	0.00	23.30	23.30	228.00	240.00	2.21	3.21	0.00	0.00	234.00	240.00
7/30/2014	0.00	696.00	21.80	23.20	231.00	1029.00	2.79	4.85	0.00	102.00	219.00	345.00
7/31/2014	0.00	711.00	21.80	23.90	189.00	1026.00	2.21	4.73	0.00	112.00	186.00	360.00

DATA DESCRIPTION

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

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

Circle Chart Index

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

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen – Well 1 Annulus Pressure

Channel #3

Green Pen – Well 1 Flow Rate

Channel #4

Black Pen – Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen – Well 2 Injection Pressure

Channel #2

Red Pen – Well 2 Annulus Pressure

Channel #3

Green Pen – Well 2 Flow Rate

Channel #4

Black Pen – Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen – Injection pH Well 1 & 2

Channel #2

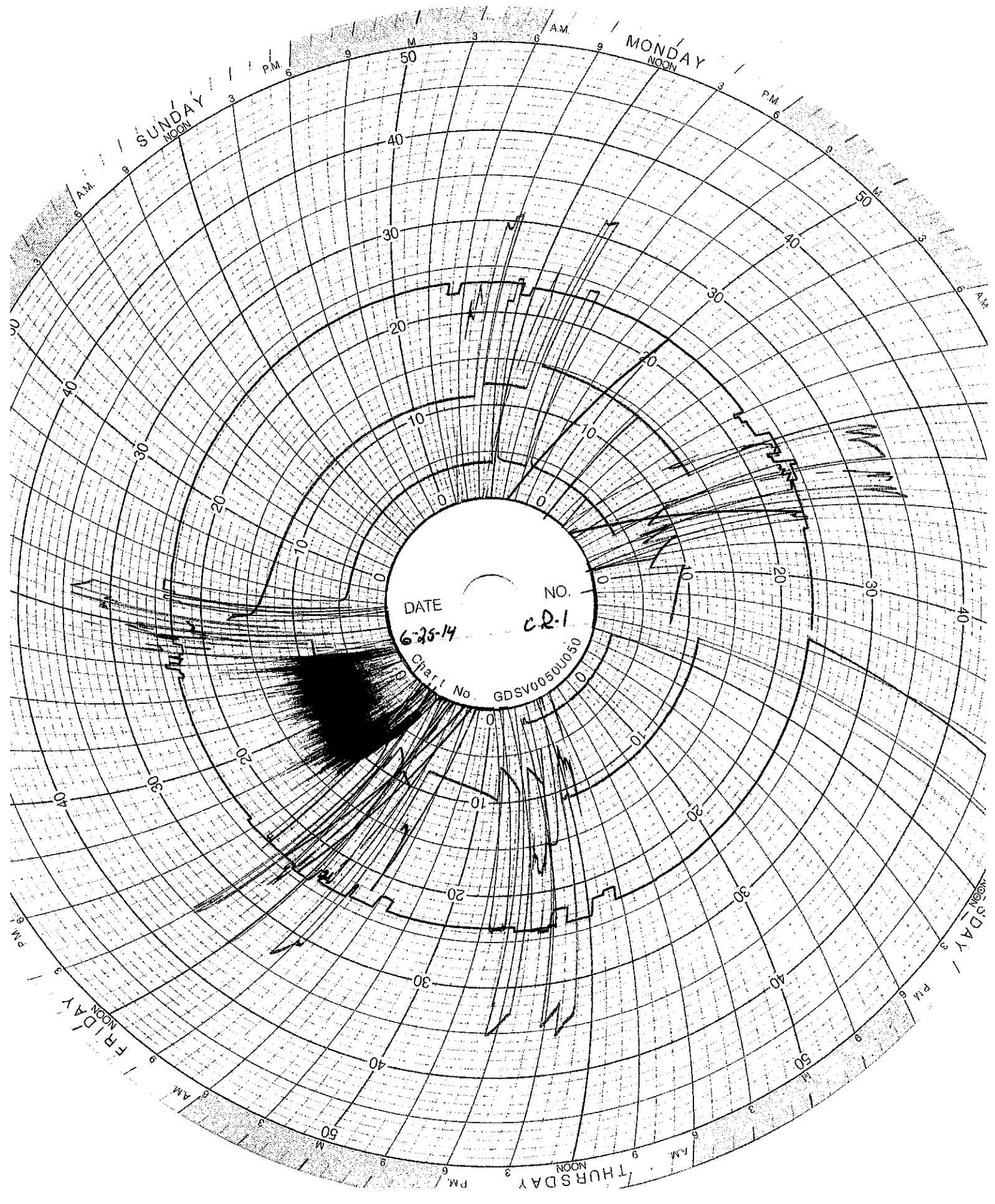
Red Pen – Well 1 Monthly Volume

Channel #3

Green Pen – Well 2 Monthly Volume

Channel #4

Black Pen - Temperature



DATE

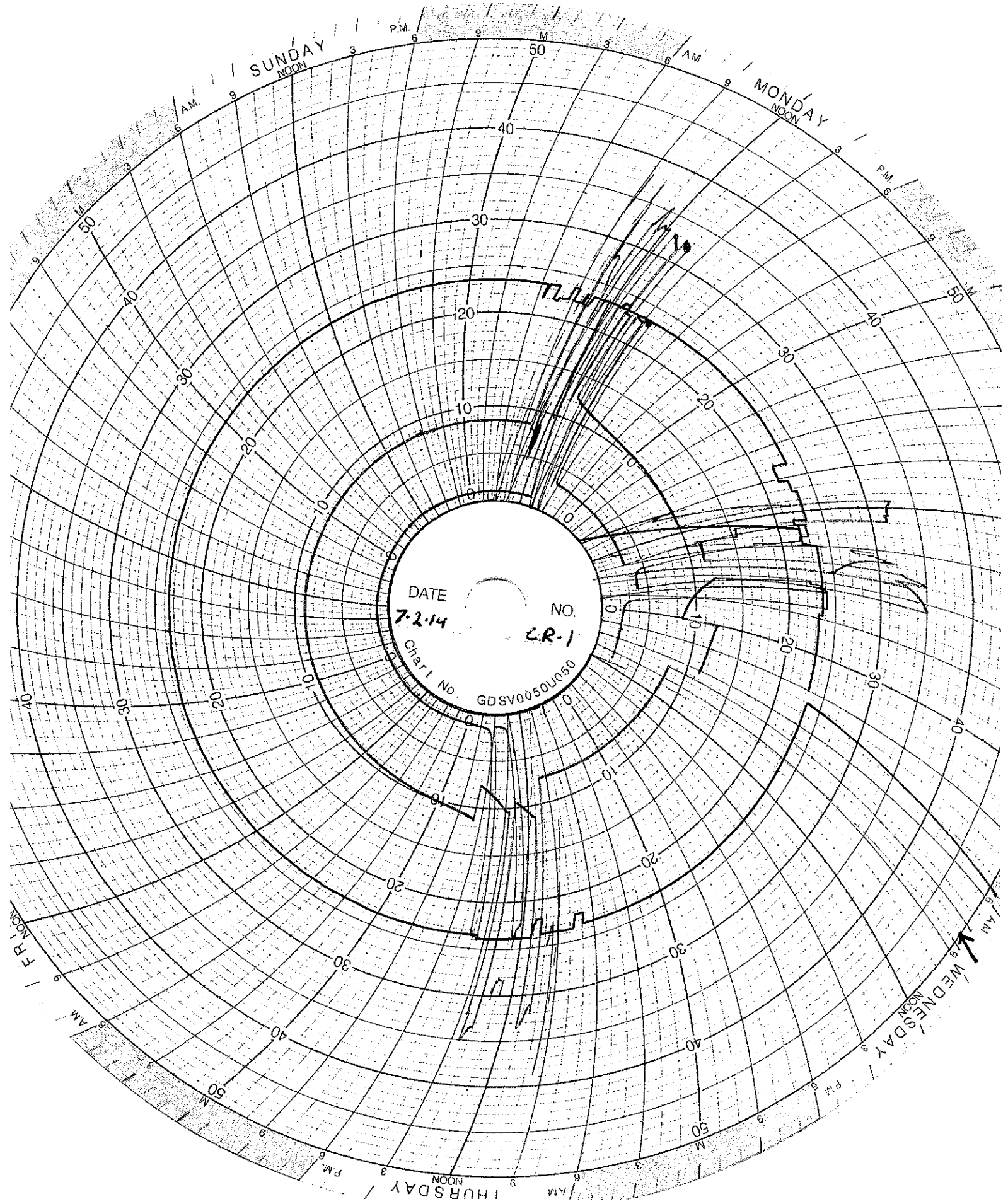
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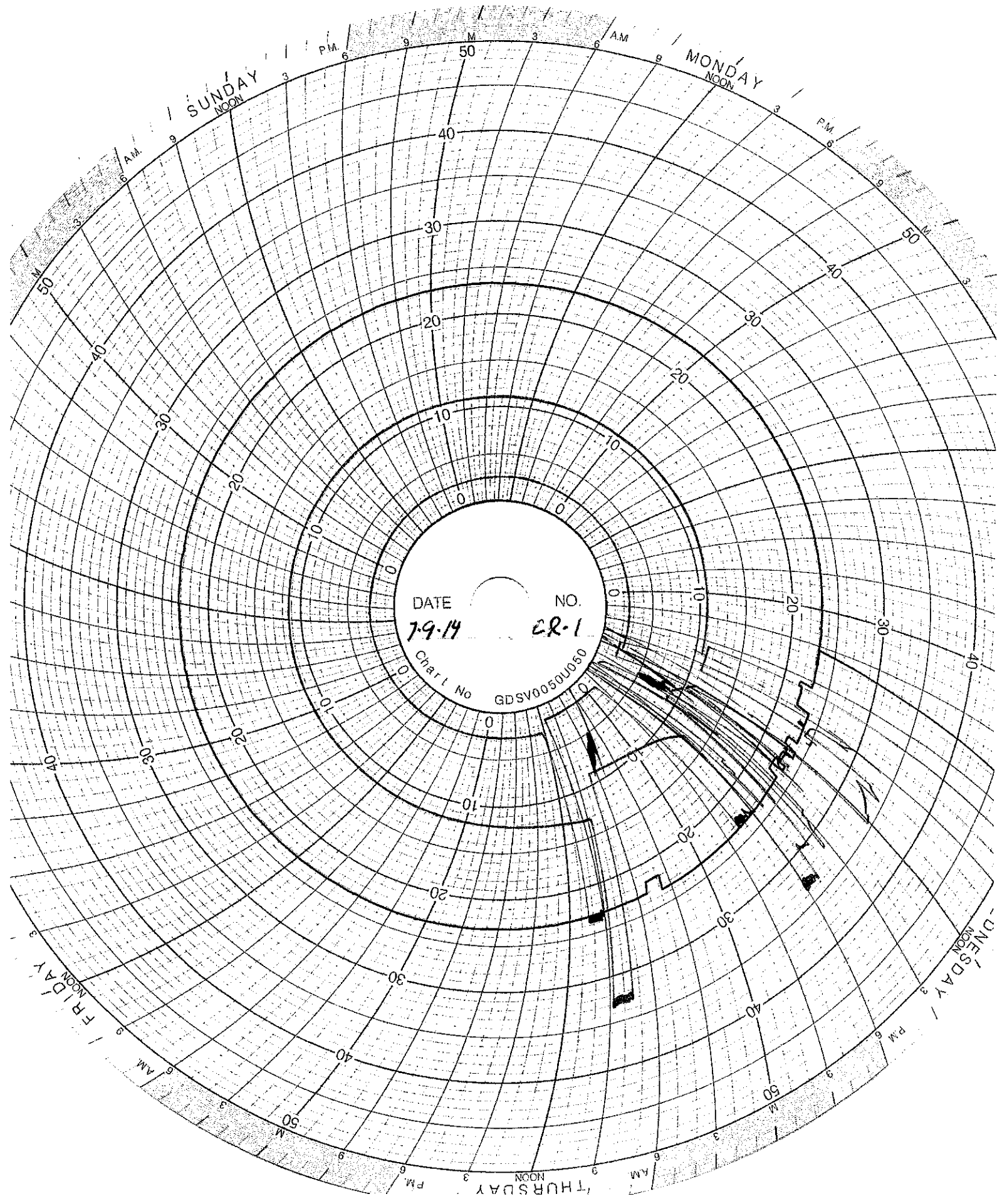
CR-1

Chart No.

GDSV0050U050



DATE 7-2-14 NO. CR-1
Chart No. GDSV0050U050



SUNDAY
NOON

MONDAY
NOON

WEDNESDAY
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FRIDAY
NOON

DATE 7-9-14 NO. ER-1

Chart No. GDSV00050000

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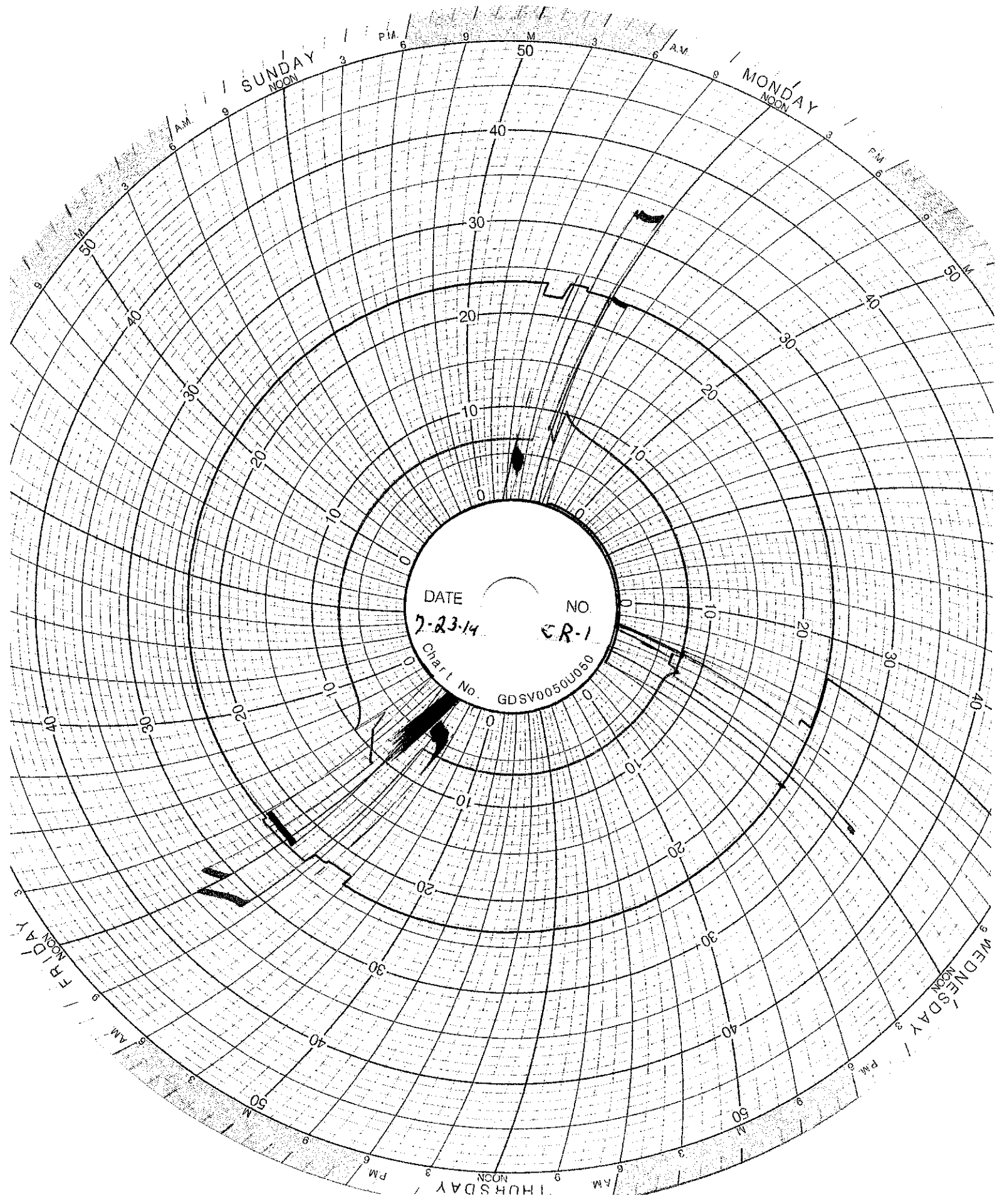
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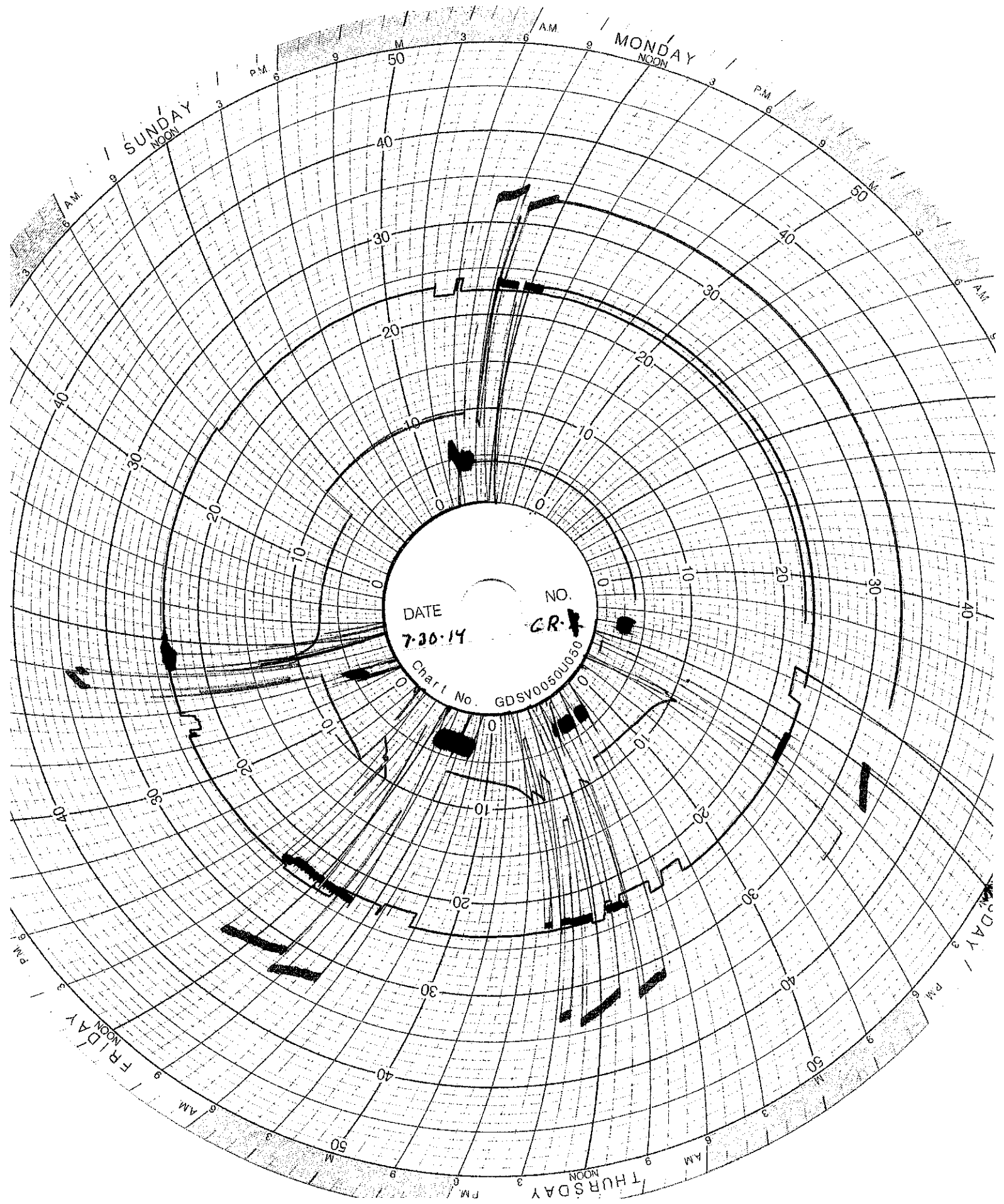
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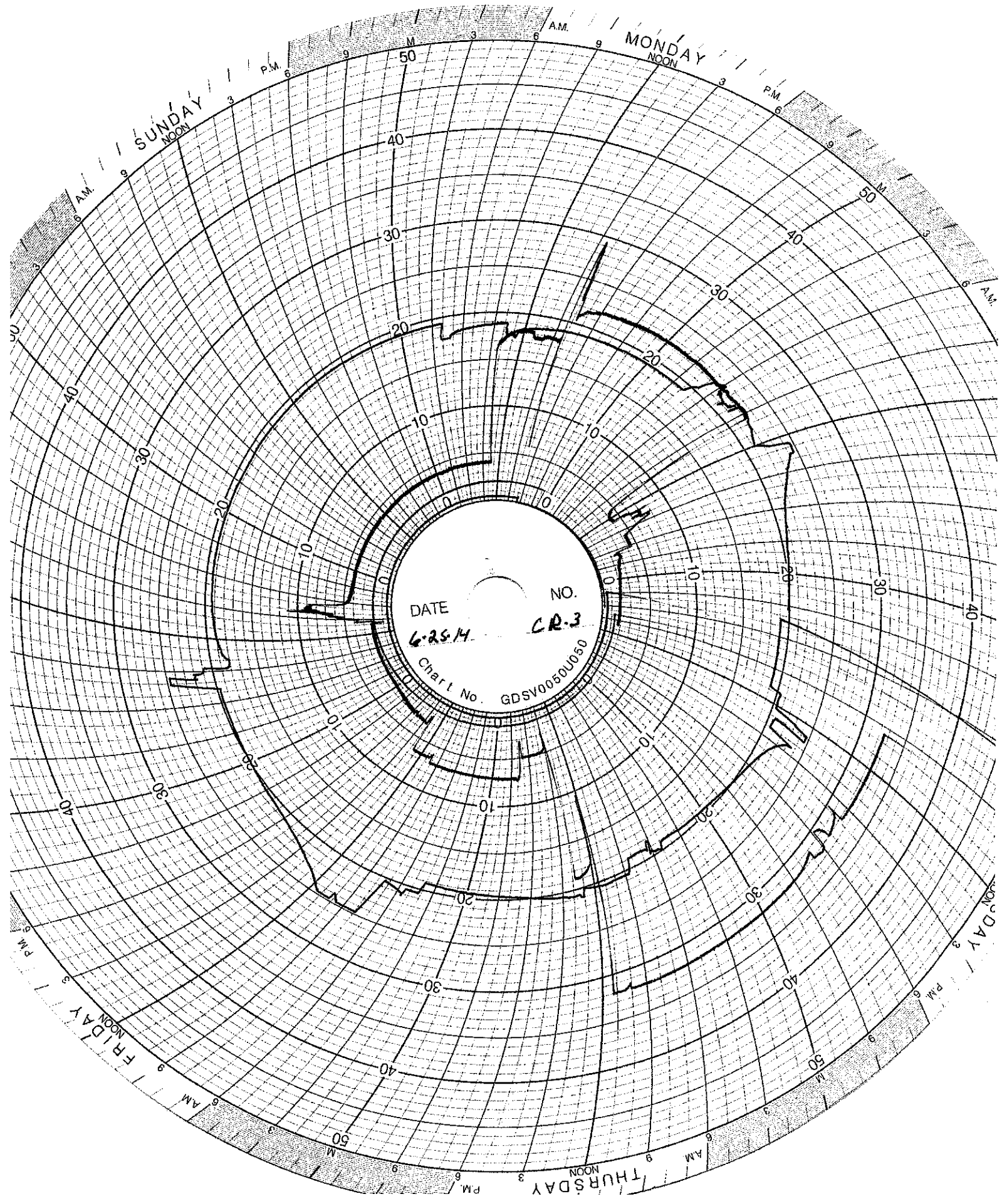
DATE 7-23-14 NO ER-1
Chart No. GDSV0050U060

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WEDNESDAY
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THURSDAY
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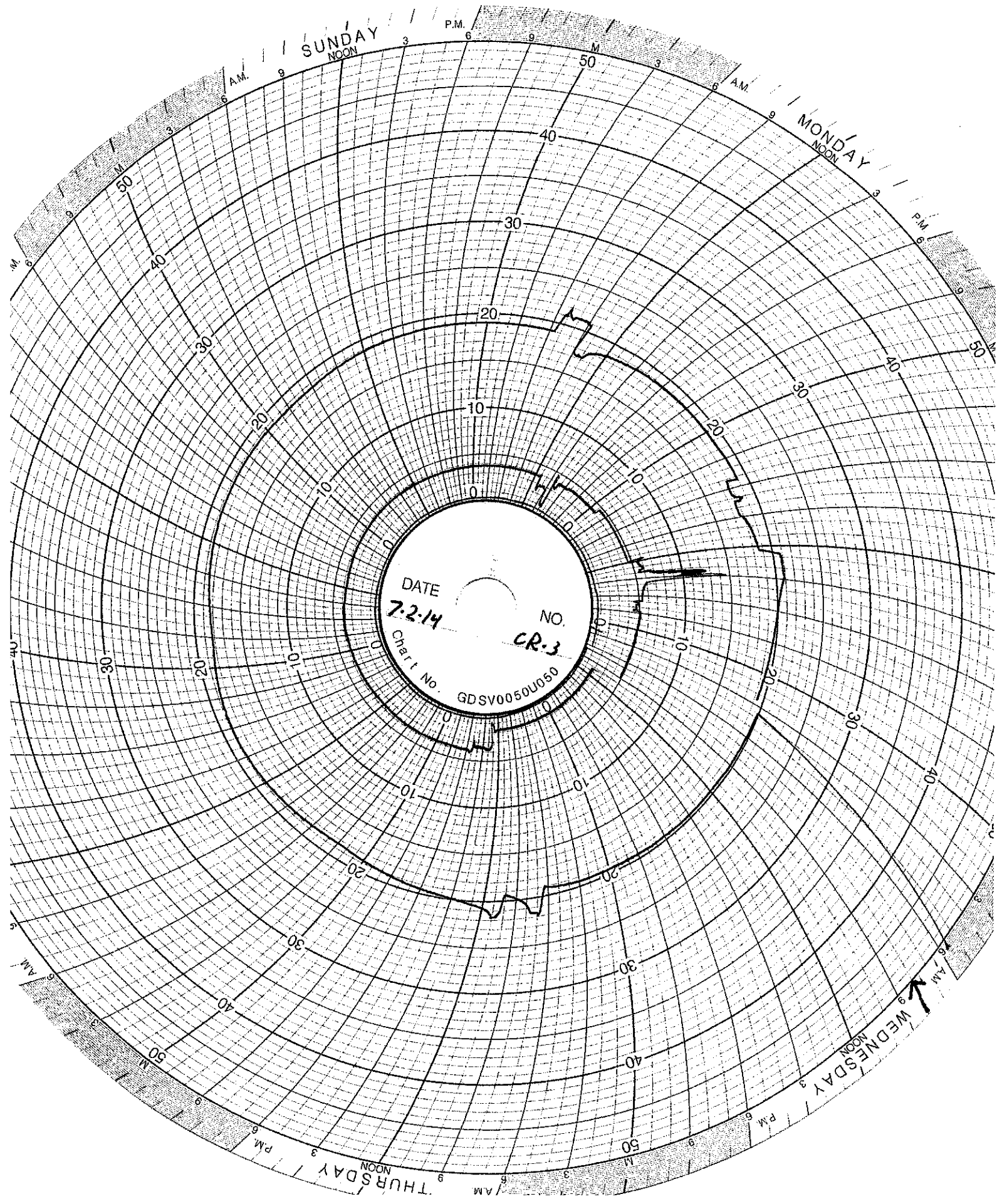
SUNDAY
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MONDAY
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THURSDAY
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FRIDAY
NOON

DATE 6-25-14
NO. CR-3
Chart No. GDSV0050U050



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MONDAY
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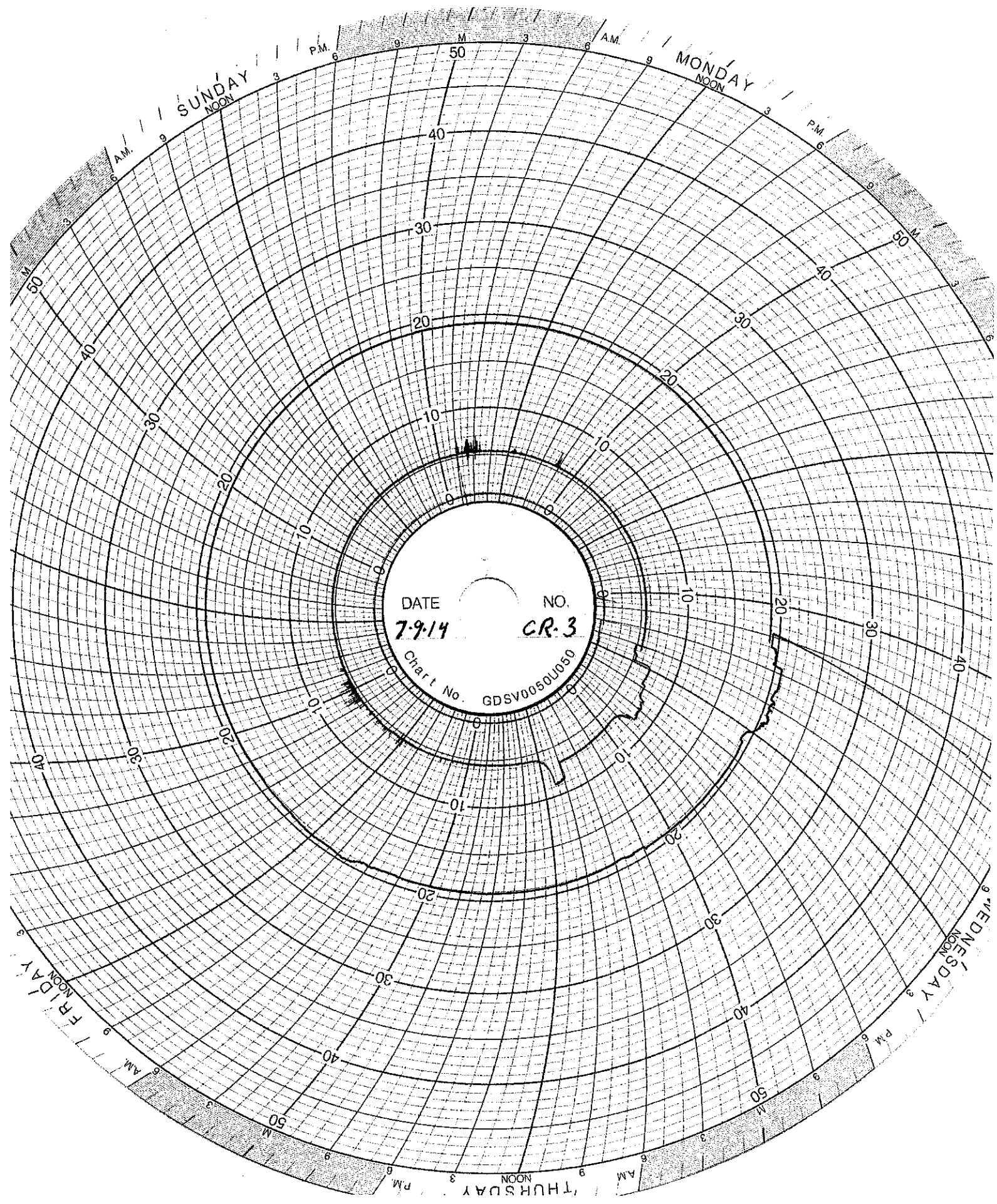
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THURSDAY
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DATE
7-2-14

NO.
CR-3

Chart No.
GDSV0050U050



SUNDAY
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MONDAY
NOON

WEDNESDAY
NOON

THURSDAY
NOON

FRIDAY
NOON

DATE

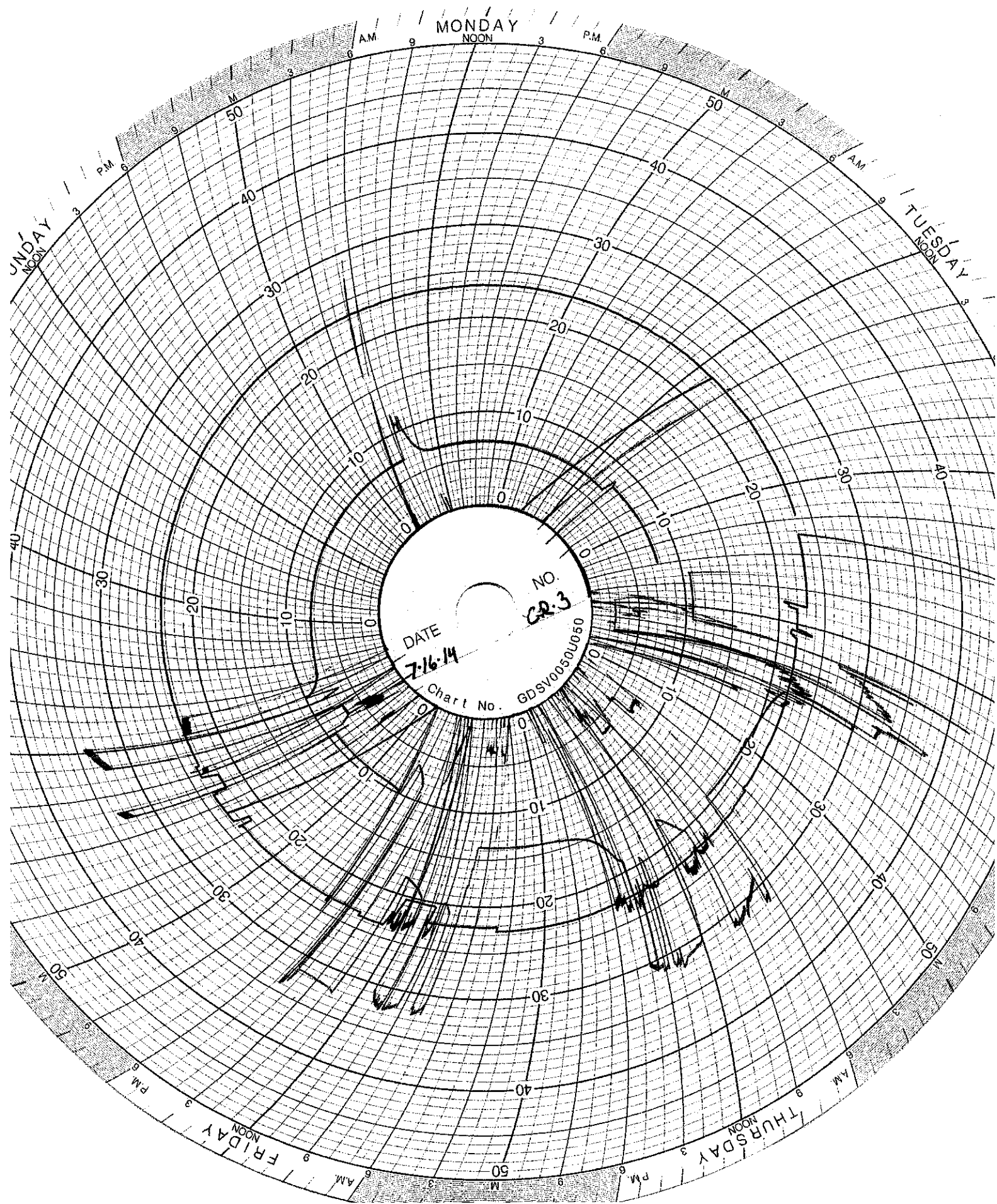
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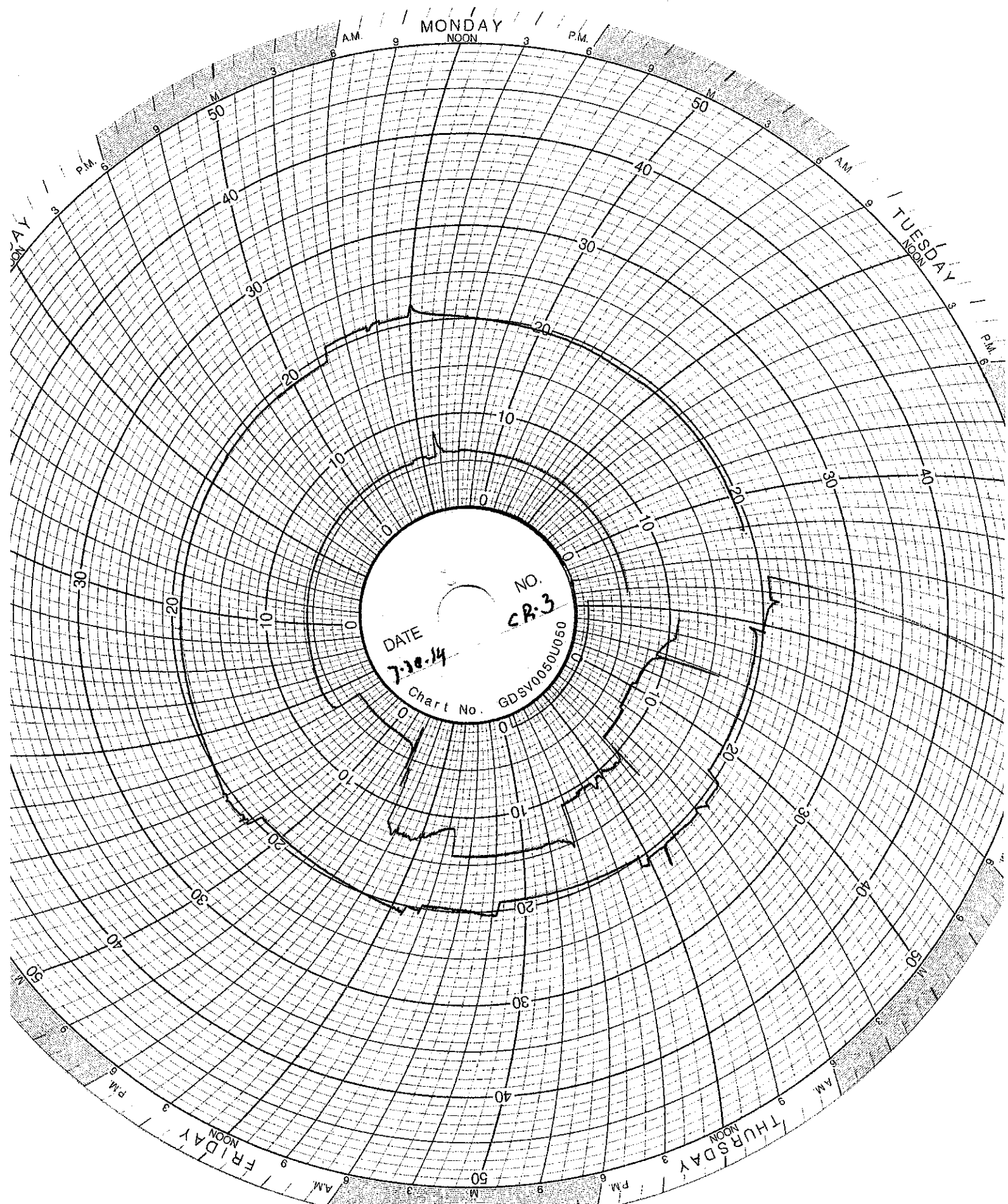
CR-3

Chart No.

GDSV0050U050



DATE 7-16-14
NO. GR-3
Chart No. GDSV10050U050



NO. CR-3
DATE 7-10-14
Chart No. GDSV0050U060

WELL 2 DATA

**SUMMARY OF OPERATING, MONITORING AND REPORTING REQUIREMENTS
Injection Well II**

Month: July

Year: 2014

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

WELL 02 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
7/1/2014	0.00	21.00	28.00	29.10	186.00	339.00	0.67	6.82	0.00	0.00	216.00	330.00
7/2/2014	0.00	0.00	23.40	25.00	186.00	348.00	0.52	0.55	0.00	0.00	240.00	375.00
7/3/2014	0.00	0.00	24.00	24.60	240.00	285.00	0.27	1.24	0.00	0.00	267.00	330.00
7/4/2014	0.00	0.00	24.50	25.10	234.00	240.00	1.12	1.18	0.00	0.00	240.00	264.00
7/5/2014	0.00	0.00	25.00	38.00	222.00	237.00	1.15	1.21	0.00	0.00	222.00	240.00
7/6/2014	0.00	0.00	35.60	38.00	216.00	228.00	1.15	1.18	0.00	0.00	216.00	222.00
7/7/2014	0.00	0.00	34.70	35.60	213.00	225.00	0.27	1.48	0.00	0.00	216.00	222.00
7/8/2014	0.00	693.00	33.20	34.80	225.00	957.00	1.21	4.45	0.00	49.60	222.00	330.00
7/9/2014	27.00	33.00	34.00	34.00	300.00	300.00	1.52	2.52	0.00	0.00	270.00	270.00
7/10/2014	30.00	30.00	33.90	33.70	294.00	297.00	1.64	2.73	0.00	0.00	264.00	267.00
7/11/2014	30.00	30.00	33.20	33.80	291.00	300.00	1.64	1.70	0.00	0.00	261.00	267.00
7/12/2014	30.00	30.00	32.70	33.20	285.00	294.00	1.58	1.61	0.00	0.00	252.00	261.00
7/13/2014	21.00	27.00	32.20	32.80	279.00	285.00	1.58	1.61	0.00	0.00	246.00	252.00
7/14/2014	18.00	27.00	31.90	32.20	276.00	282.00	1.58	1.67	0.00	0.00	246.00	246.00
7/15/2014	21.00	30.00	31.40	31.90	276.00	285.00	1.64	1.70	0.00	0.00	246.00	246.00
7/16/2014	27.00	30.00	31.10	31.30	279.00	291.00	0.79	8.03	0.00	0.00	246.00	258.00
7/17/2014	0.00	30.00	31.00	31.10	285.00	294.00	0.00	7.45	0.00	0.00	258.00	261.00
7/18/2014	30.00	30.00	30.50	31.00	288.00	294.00	0.00	7.58	0.00	0.00	249.00	258.00
7/19/2014	24.00	27.00	30.00	31.40	276.00	285.00	0.00	7.21	0.00	0.00	252.00	255.00
7/20/2014	18.00	27.00	29.60	30.00	270.00	276.00	0.00	0.00	0.00	0.00	249.00	252.00
7/21/2014	12.00	21.00	29.20	29.50	270.00	273.00	0.00	0.67	0.00	0.00	255.00	255.00
7/22/2014	18.00	24.00	28.90	29.20	270.00	273.00	0.00	0.00	0.00	0.00	252.00	255.00
7/23/2014	18.00	30.00	28.50	28.90	273.00	273.00	0.00	1.82	0.00	0.00	246.00	252.00
7/24/2014	27.00	30.00	28.20	28.40	276.00	285.00	1.18	1.52	0.00	0.00	246.00	246.00
7/25/2014	30.00	30.00	28.00	28.20	279.00	282.00	1.18	1.61	0.00	0.00	246.00	246.00
7/26/2014	18.00	30.00	27.20	28.00	270.00	276.00	1.45	1.48	0.00	0.00	246.00	246.00
7/27/2014	15.00	21.00	26.50	27.10	270.00	270.00	1.39	1.45	0.00	0.00	246.00	255.00
7/28/2014	18.00	24.00	26.20	26.50	270.00	270.00	1.21	4.09	0.00	0.00	243.00	249.00
7/29/2014	21.00	27.00	26.00	26.20	270.00	270.00	2.21	3.21	0.00	0.00	243.00	243.00
7/30/2014	24.00	30.00	26.00	26.00	270.00	276.00	2.79	4.85	0.00	0.00	240.00	243.00
7/31/2014	9.00	720.00	24.20	26.00	273.00	927.00	2.21	4.73	0.00	27.20	240.00	354.00

Circle Chart Index

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

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen – Well 1 Annulus Pressure

Channel #3

Green Pen – Well 1 Flow Rate

Channel #4

Black Pen – Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen – Well 2 Injection Pressure

Channel #2

Red Pen – Well 2 Annulus Pressure

Channel #3

Green Pen – Well 2 Flow Rate

Channel #4

Black Pen – Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen – Injection pH Well 1 & 2

Channel #2

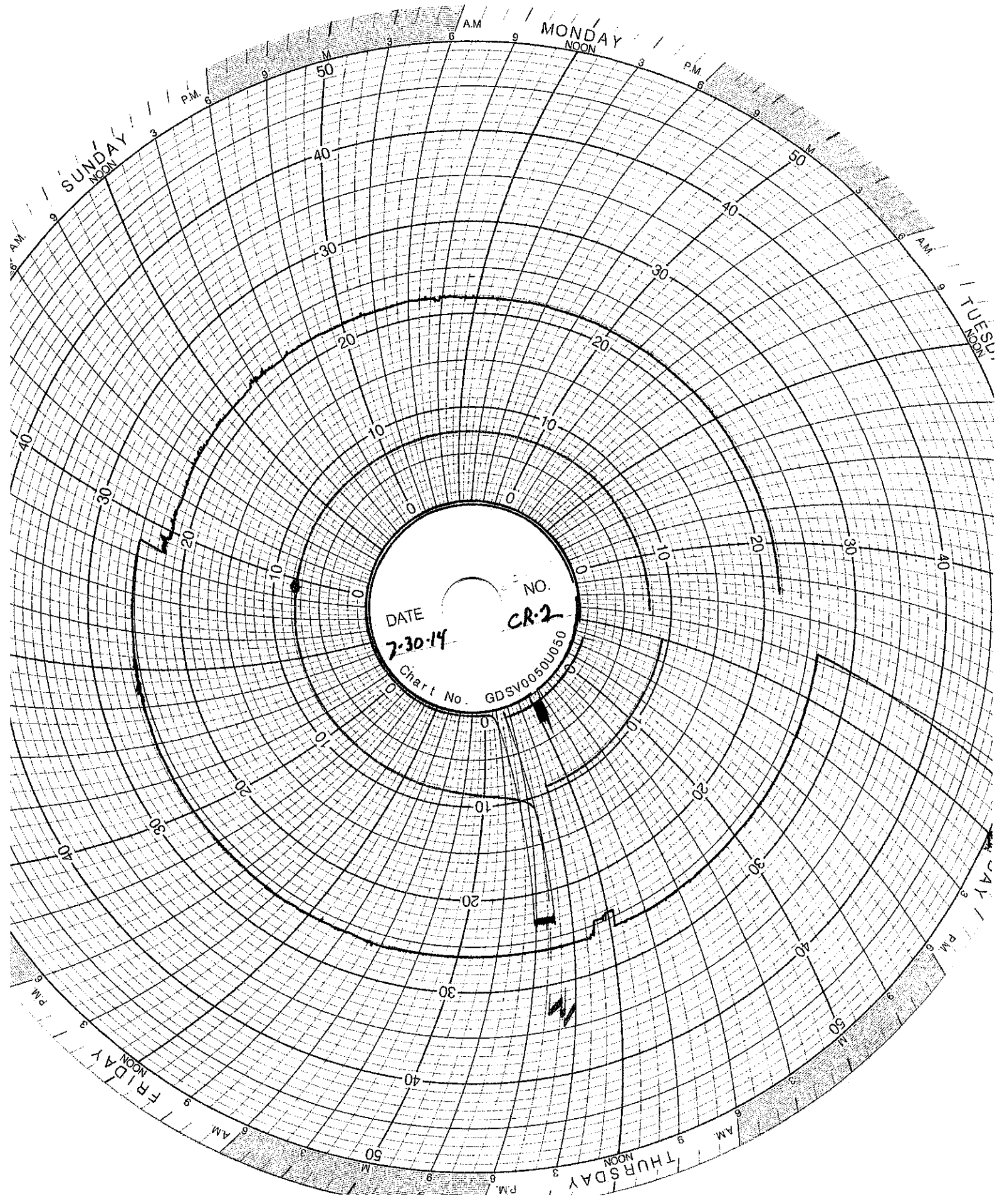
Red Pen – Well 1 Monthly Volume

Channel #3

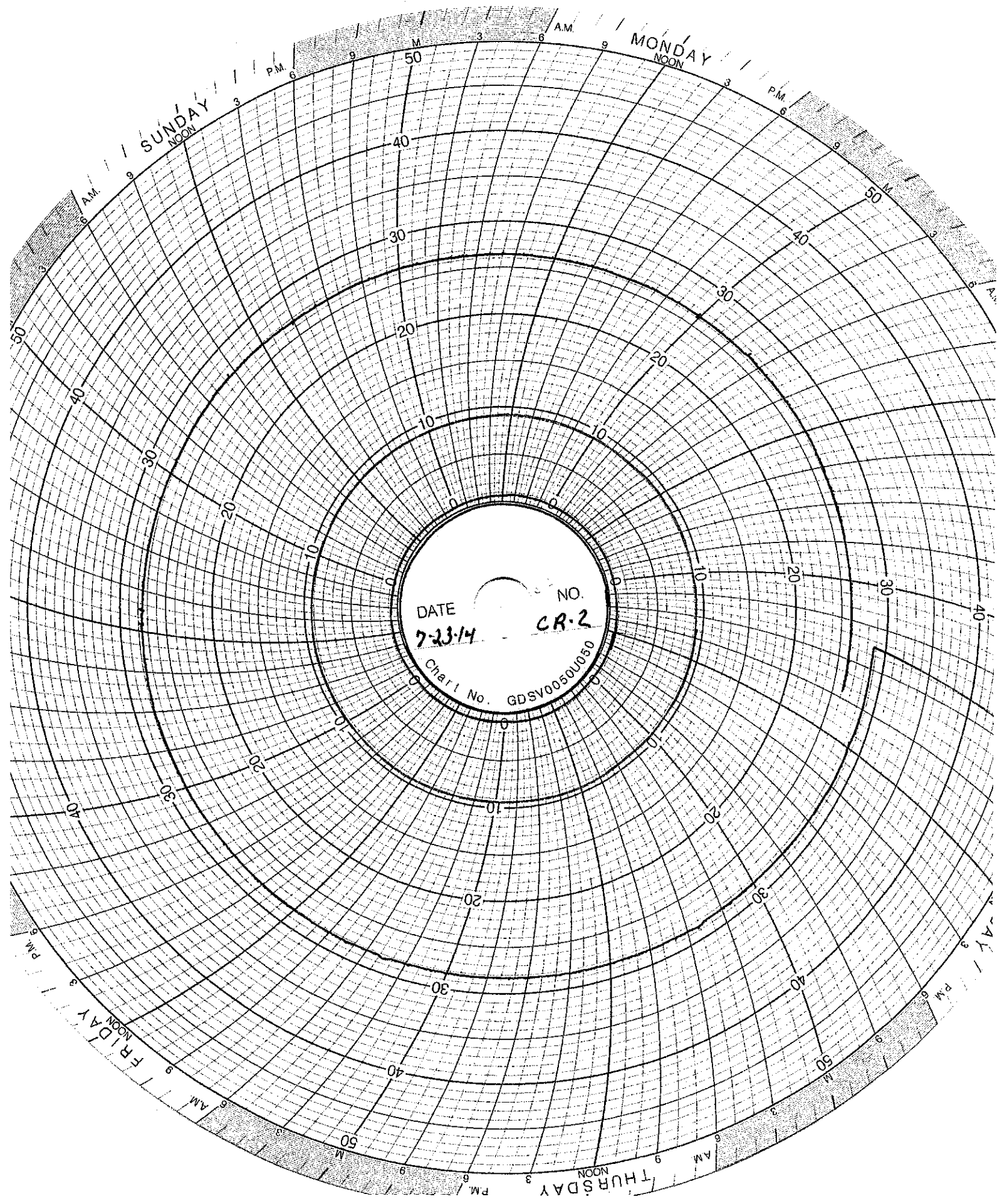
Green Pen – Well 2 Monthly Volume

Channel #4

Black Pen - Temperature



DATE 7-30-14
NO. CR-2
Chart No. GDSV005DU050



SUNDAY
NOON

MONDAY
NOON

DATE

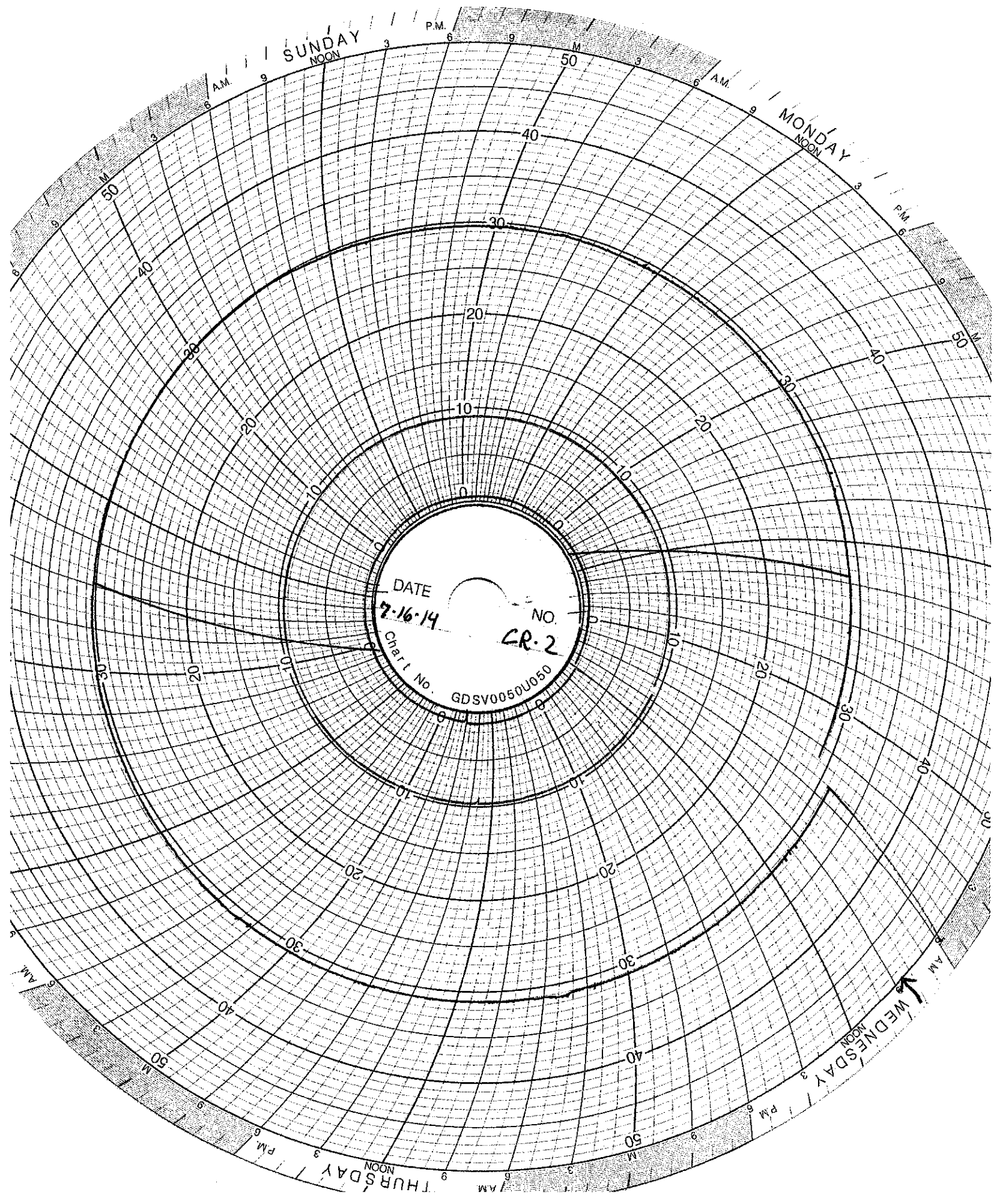
NO.

7-23-14

CR-2

Chart No.

GDSV000500050



SUNDAY
NOON

MONDAY
NOON

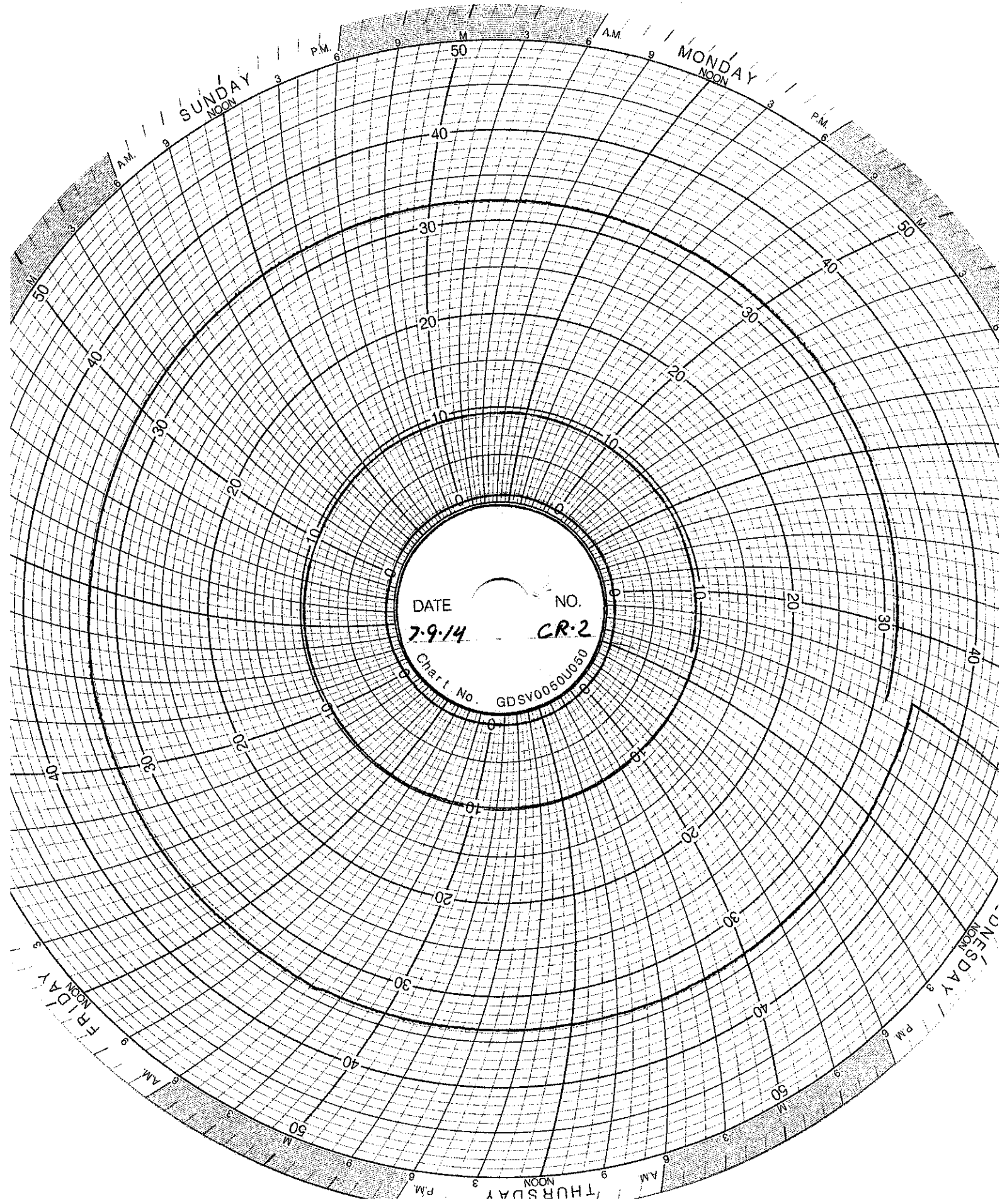
WEDNESDAY
NOON

THURSDAY
NOON

DATE
7-16-14

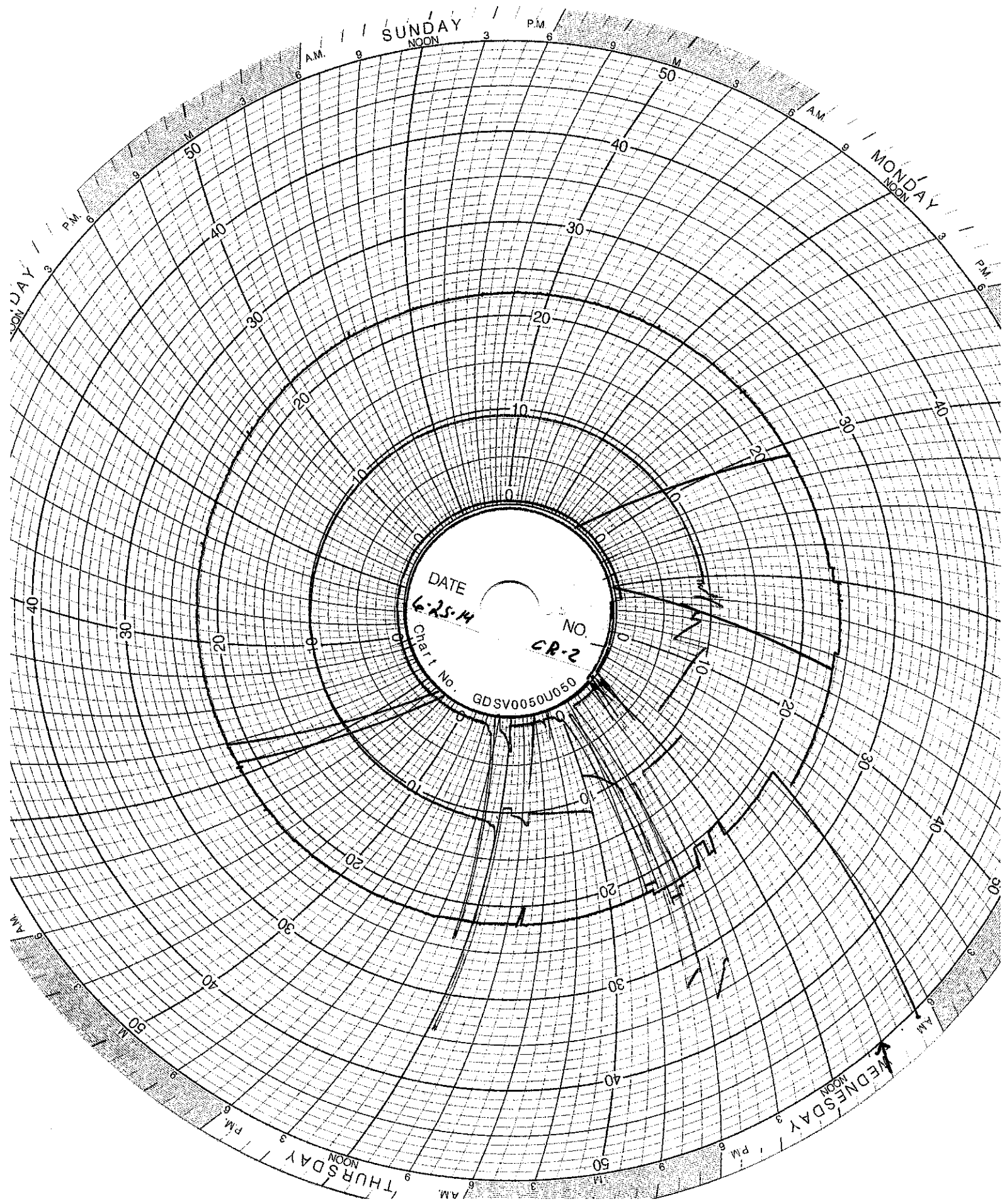
NO.
CR-2

Chart No.
GDSV0050U050



DATE 7-9-14 NO. CR-2

Chart No. GDSV005010150



SUNDAY

MONDAY

WEDNESDAY

THURSDAY

DATE

6-25-54

NO.

CR-2

Chart No.

GDSV0050U050

MAINTENANCE LOG

UIC Monthly Maintenance Log

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

CORROSION MONITORING

CORROSION MONITORING COUPONS BASELINE VISUAL DESCRIPTION

November 4, 2013

Fiberglass

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

Hastelloy

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

Stainless Steel

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

CORROSION MONITORING COUPON VISUAL DESCRIPTION

May 30, 2014

Fiberglass

No pitting or cracking present on this coupon.

Hastelloy

No pitting or cracking present on this coupon.

Stainless Steel

There is some minor pitting but stainless steel is not part of the EGT well construction..

GHESQUIERE PLASTIC TESTING, INC.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.
(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

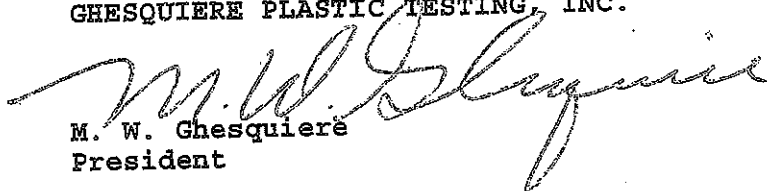
The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	85

Specimen was returned to the client June 16, 2014.

GHESQUIERE PLASTIC TESTING, INC.


M. W. Ghesquiere
President

MWG/dm

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:

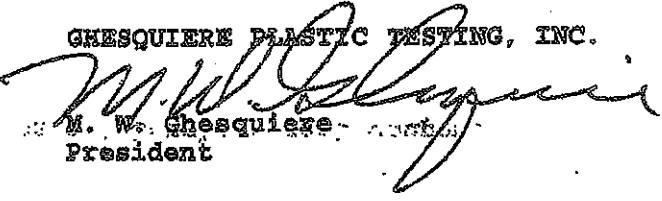
BARCOL HARDNESS

Hardness

Specimen 1: 90

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

Ghesquiere Plastic Testing, Inc.



M. W. Ghesquiere
President

MWG/dm

GHESQUIERE PLASTIC TESTING, INC.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.
(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHESQUIERE PLASTIC TESTING, INC.


M. W. Ghesquiere
President

MWG/kni

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TOTAL 1 PAGES

CORROSION MONITORING PLAN
COUPON SUMMARY

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

Fiberglass Coupon

Date: 08/06/2013

Wt.: 7.309 Grams

Prior to Waste Exposure

C276

1

Hastelloy Coupon

ID: C267 (1)

Date: 08/06/2013

Wt: 13.330 Grams

Prior to Waste Exposure

316L
C1562

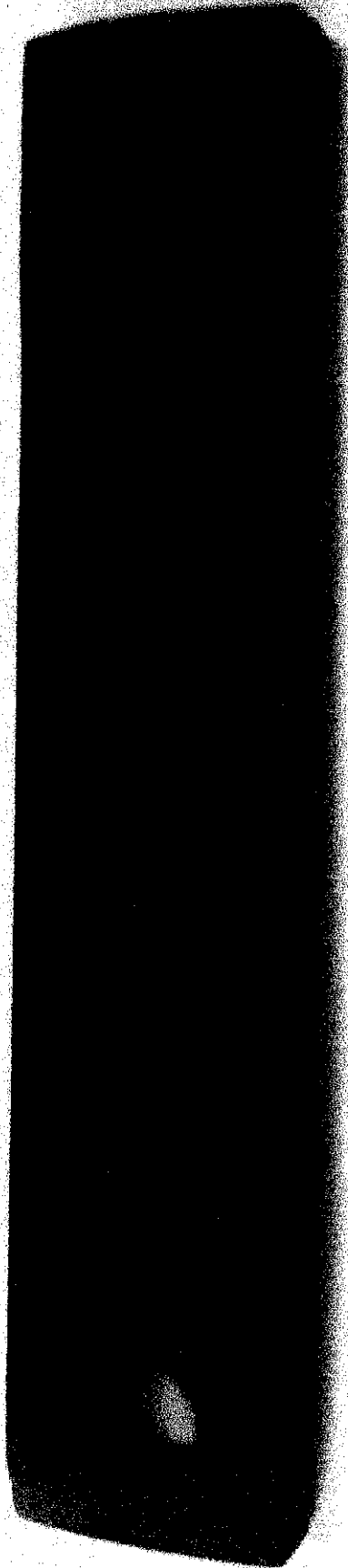
Stainless Steel Coupon

ID: 316L / C1562

Date: 08/06/2013

Wt.: 10.848 grams

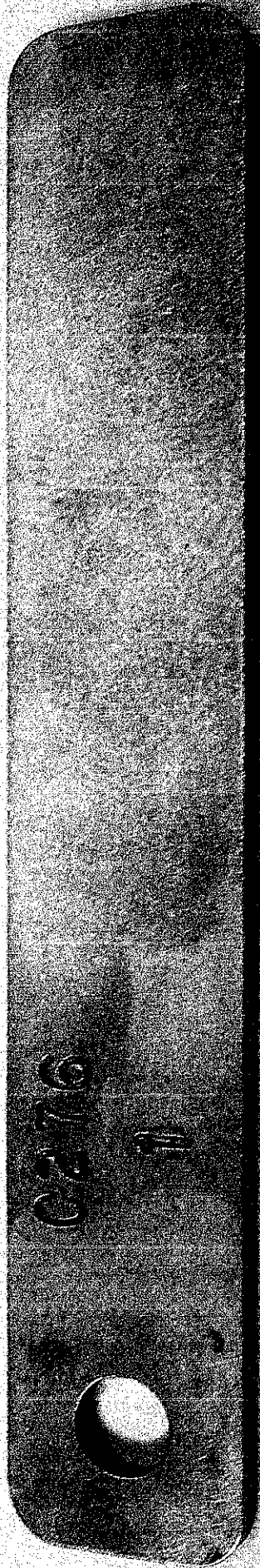
Prior to Waste Exposure



5.30.14



5-30-14



5 30 14

**INJECTION
FINGERPRINTS**

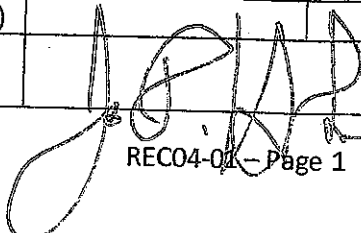
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/1/14
Receiving ID#	I07011901
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M. D.A.H.
Sampled by	

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	
pH (S.U.)	1.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.14	TDS	7.27
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	81°F		
Conductivity	143.3 mS		
% Solids	7.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	40.1		
Radiation Screen (as needed)			
Lab Signature			

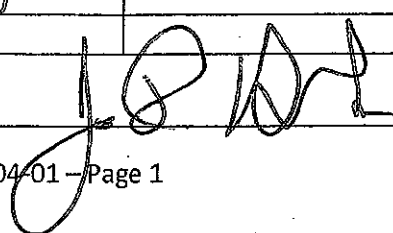
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/1/14
Receiving ID#	107011402
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	A
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	D.H.

COPY

LAB INFORMATION		Oilfield Brines Only:	
All Waste Shipments:			
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.21	TDS	35.77
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	70°F		
Conductivity	> 400.0 μS		
% Solids	35.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

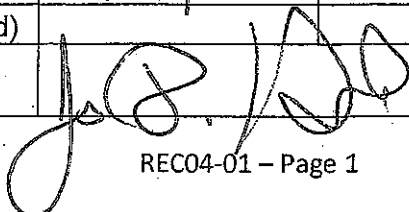
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/3/14
Receiving ID#	IC7031401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	A
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DM

COPY

LAB INFORMATION:		Oilfield Brines Only:	
All Waste Shipments:			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	
pH (S.U.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	10.17
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	78°F		
Conductivity	202.5 mS		
% Solids	10.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

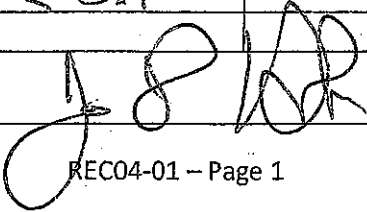
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/3/14
Receiving ID#	F07031402
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	A
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DM

COPY

LAB INFORMATION:		Oilfield Brines Only:	
All Waste Shipments:			
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	6.8?
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	79		
Conductivity	136.1 mS		
% Solids	6.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

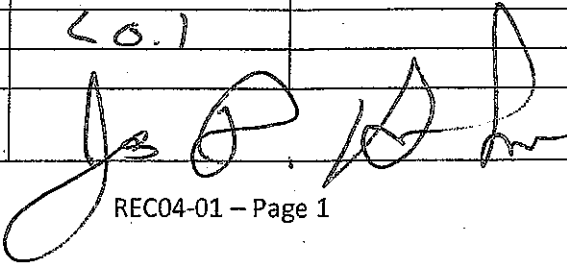
ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION

Date	7/7/14
Receiving ID#	107071401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	A
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	D.H.

COPY

LAB INFORMATION:		Oilfield Brines Only:	
All Waste Shipments:			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	23.17
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	78°F		
Conductivity	> 400.0 mS		
% Solids	23.1		
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	2/8/14
Receiving ID#	107081401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	A
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	OM

COPY

LAB INFORMATION		Oilfield Brines Only:	
All Waste Shipments:			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	5.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.00	TDS	< 0.1%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	0.7mS		
% Solids	< 0.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

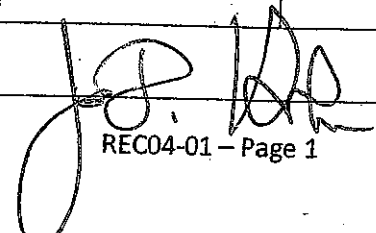
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/8/14
Receiving ID#	I07581402
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	A
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.F.
Sampled by	N.H.

COPY

LAB INFORMATION		Oilfield Brines Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.03	TDS	3.77
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	72°F		
Conductivity	74.3mS		
% Solids	3.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

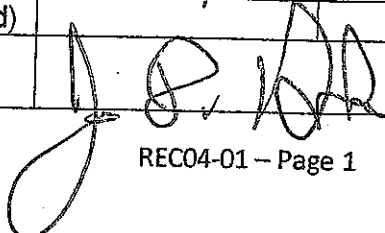
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/9/14
Receiving ID#	107091401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DA

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments		Barium	
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No		
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	3.8%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	76°F		
Conductivity	76.3 uS		
% Solids	3.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

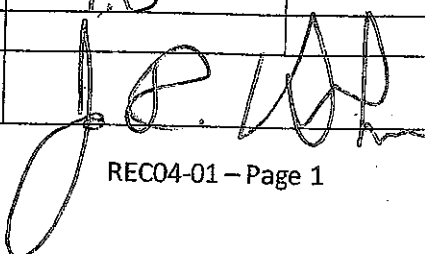
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/9/14
Receiving ID#	E07091402
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J. H.
Sampled by	D.A.H.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	
pH (S.U.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	5.5
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	72°F		
Conductivity	1063 mS		
% Solids	9.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	4.0		
Radiation Screen (as needed)			
Lab Signature			

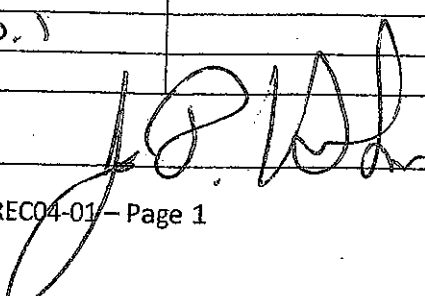
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/16/14
Receiving ID#	10716140
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	D.M.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	
pH (S.U.)	1.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.09	TDS	5.17
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	73°F		
Conductivity	102.0 mS		
% Solids	5.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

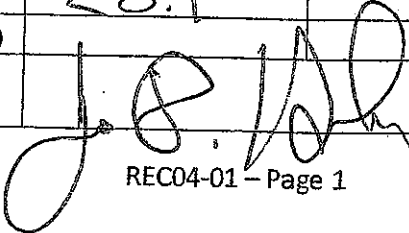
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/17/14
Receiving ID#	107171401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	D.A.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Streams		Barium	
Compatible? (RT#)	Yes No		
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.16	TDS	6.97
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	78°F		
Conductivity	128.6 mS		
% Solids	6.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

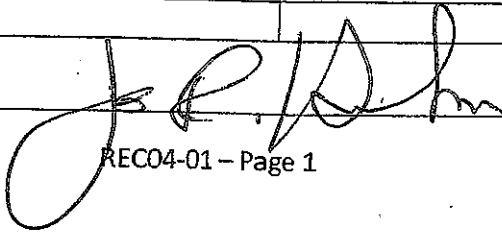
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/25/14
Receiving ID#	107251401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	A
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.A.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments			
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	
pH (S.U.)	0.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.19	TDS	6.9%
Physical Description		Resistivity	
Stream Consistency	Yes <input type="radio"/> No <input type="radio"/>	Sulfate	
Oil in Sample	Yes <input type="radio"/> No <input type="radio"/>		
Temperature	75°F		
Conductivity	138.1 mS		
% Solids	6.9		
Turbidity	Yes <input type="radio"/> No <input type="radio"/>		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

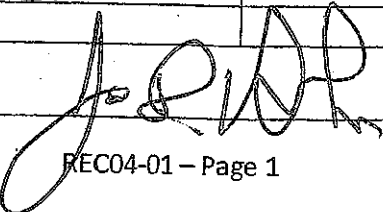
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/28/14
Receiving ID#	167281401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments		Yes	No
Compatible? (RT#)			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	1.11		TDS
Physical Description			Resistivity
Stream Consistency	Yes No		Sulfate
Oil in Sample	Yes No		
Temperature	76°F		
Conductivity	98.8 mS		
% Solids	13.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	8.0		
Radiation Screen (as needed)			
Lab Signature			

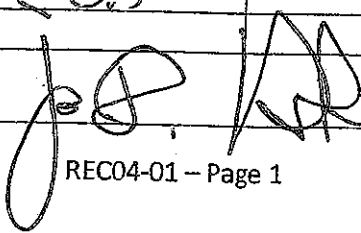
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/30/14
Receiving ID#	10730140
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DA

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Submittals			
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.)	2.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.01	TDS	5.17
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	77°F		
Conductivity	101.0ms		
% Solids	5.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	2.0		
Radiation Screen (as needed)			
Lab Signature			

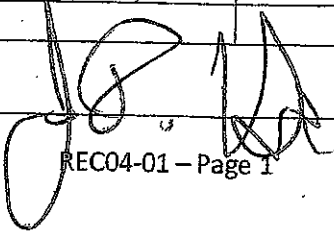
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/31/14
Receiving ID#	107311401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	S.H.

COPY

LAB INFORMATION		All Waste Shipments		Offfield 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.)	2.6	Sodium Chloride			
Cyanides? (mg/L)		Bicarbonate			
Sulfides? (ppm)		Carbonate			
Specific Gravity	1.12	TDS			5.07
Physical Description		Resistivity			
Stream Consistency	Yes No	Sulfate			
Oil in Sample	Yes No				
Temperature	76°F				
Conductivity	100.8 mS				
% Solids	5.0				
Turbidity	Yes No				
Color (visual)					
TSS (%)	< 0.1				
Radiation Screen (as needed)					
Lab Signature					

**WASTE STREAMS
CHARACTERIZATIONS**

GENERATOR INFORMATION

Name: [REDACTED] USERA 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

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:
ACID RINSE WATER
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
THE WASTE WATER IS GENERATED FROM RINSING OUT
DIESEL REPAIR SHOP THAT WAS USED TO MAINTAIN VEHICLES
AT MICHIGAN PROTECTIVE CO. #1002 W/ST.

USERA / 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: D 007 D002

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other	Suspended Solids <input type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input checked="" type="checkbox"/> 1-3% <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> < 0.8 <input type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact/ Other	<i>accepted</i> <i>07.22.14</i>
---	---	--	---	------------------------------------

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

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

VOC CONCENTRATION: 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Chloride</u>	<u>97</u>	<u>70</u>	<u>Sulfuric Acid</u>	<u>0</u>	<u>1</u>
<u>Chloride Acid, Dilute Acid</u>	<u>0</u>	<u>1</u>	<u>Chromium Hexavalent</u>	<u>0</u>	<u>1</u>
<u>Hydrogen Chloride Acid</u>	<u>0</u>	<u>1</u>	<u>Mercury Element</u>	<u>0</u>	<u>1</u>
<u>Hydrogen Peroxide</u>	<u>0</u>	<u>1</u>	<u>Polychlorinated Biphenyls</u>	<u>0</u>	<u>1</u>
<u>Chloride Acid, Concentrated</u>	<u>0</u>	<u>1</u>	<u>Other</u>	<u>0</u>	<u>0</u>

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

- Lab Analysis Generator Knowledge TCLP TOTAL

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

TCLP Organics D012 - D013 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 NESHAIP Wastes (Benzene, etc.) Biological None Apply

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds _____
- DOT Shipping Name Rinsate solvent Chromic Acids Hazard Class UN/NA
- PG _____ ERG _____ Hazardous Constituents for "n.o.s." _____
- Method of Shipment: Bulk Tanker Vactoruck Rail Car Drums Totes
- Number of Units to Ship Now: 3500 gals 6. Anticipated Volume/Units per Year: 30,000 gals or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

Printed Name: _____ Title: _____
 Generator's Sign: _____ Date: 4/23/14

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

1. SAMPLING METHOD _____ 2. COLLECTION POINT _____

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

4. Sample No. _____ Preservation: Yes No

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

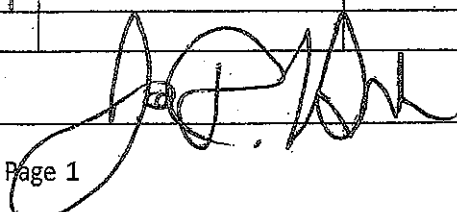
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/30/14
Receiving ID#	Chrome Process Water
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	
Transporter	
Time in	
Time out	
Received by	G.H.
Sampled by	Client

LAB INFORMATION		Oilfield Brines Only	
All Waste Shipments:		Barium	
Compatible? (RT#)	<input checked="" type="radio"/> Yes No	Calcium	
PCBs (ppm)(Oily Waste Only)?	N/A	Total Iron	
TOC (ppm)(CC Waste Only)?	N/A	Magnesium	
Flash Point (°F)	> 140	Sodium Chloride	
pH (S.U.)	2.7	Bicarbonate	
Cyanides? (mg/L)	< 30	Carbonate	
Sulfides? (ppm)	< 200	TDS	
Specific Gravity	1.00	Resistivity	
Physical Description	liquid	Sulfate	
Stream Consistency	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Oil in Sample	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Temperature	75°F		
Conductivity	2.3mS		
% Solids	0.2		
Turbidity	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Color (visual)	Blue		
TSS (%)	20.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

PERMATREAT® 1500

Version 1.1
Revision Date 07/08/2011

Print Date 12/03/2013

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PERMATREAT® 1500
 MSDS Number : REL_70159

 Company : Chemetall US, Inc.
 675 Central Avenue
 New Providence, NJ 07974

 Telephone : +18005264473
 Telefax : +19084644658
 Emergency telephone no : CHEMTREC - 800-424-9300

SECTION 2. HAZARDOUS COMPONENTS INFORMATION

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

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

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview

Form : liquid
 Colour : brown
 Odour : acrid
 Hazard Summary : Causes severe burns. Also harmful by inhalation and if swallowed. May cause cancer by inhalation.

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

Carcinogenicity:

NTP Chromic (VI) Acid This substance is listed by NTP as a Carcinogen.
 Chromium (III) chromate (VI) This substance is listed by NTP as a Carcinogen.
 IARC Chromic (VI) Acid This substance is listed by IARC as a Carcinogen.
 Chromium (III) chromate (VI) This substance is listed by IARC as a Carcinogen.
 OSHA No substance in this product is regulated by OSHA as a carcinogen

SECTION 4. FIRST AID MEASURES

PERMATREAT® 1500

Version 1.1
Revision Date 07/08/2011

Print Date 12/03/2013

- Inhalation : Move to fresh air. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration.
- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Call a physician if irritation develops or persists.
- Eye contact : Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately
- Ingestion : Rinse mouth. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately

SECTION 5. FIRE-FIGHTING MEASURES

- Flash point : Note: does not flash
- Lower explosion limit : Note: not applicable
- Upper explosion limit : Note: not applicable
- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Use water spray to cool unopened containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ensure adequate ventilation.
- Methods for cleaning up : Ventilate area.
Neutralize with lime milk or soda and flush with plenty of water.
Clean up with inert absorbant material.
Keep in suitable, closed containers for disposal.
Flush with plenty of water.
- Additional advice : Never return spills in original containers for re-use.

PERMATREAT® 1500

Version 1.1
Revision Date 07/08/2011

Print Date 12/03/2013

SECTION 7. HANDLING AND STORAGE

Handling

Handling : Add this product to surface of solution slowly to avoid spattering
Do not add large amounts of product to solution at any one time.
Use only with adequate ventilation.

Storage

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place.
KEEP FROM FREEZING
Do not allow to dry-out

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Eye protection : Chemical resistant goggles must be worn.
Face-shield

Hand protection : Impervious gloves

Skin and body protection : Protective suit

Respiratory protection : If the occupational exposure limits cannot be met, suitable respirator equipment shall be worn.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Wear suitable gloves and eye/face protection.
Wear suitable protective clothing.
Wash hands before breaks and immediately after handling the product.
Provide adequate ventilation.
Do not inhale fumes.
Keep away from food and drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PERMATREAT® 1500

Version 1.1
Revision Date 07/08/2011

Print Date 12/03/2013

pH	:	< 2.5
Melting point/range	:	0 °C (32 °F)
Boiling point/boiling range	:	Note: no data available
Vapour pressure	:	Note: no data available
Bulk density	:	9.14 lb/gal
Water solubility	:	Note: completely soluble
Partition coefficient: n-octanol/water	:	Note: no data available
Percent of Volatile by Weight excluding water	:	0
Relative density	:	1.095
Evaporation rate	:	1 Note: Water = 1

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	:	Avoid letting the product become dry.
Materials to avoid	:	Bases Reducing agents Combustible material Organic materials Warning! Do not use together with other products, which may release dangerous gases (chlorine).
Hazardous decomposition products	:	Chromium oxides Hydrogen, by reaction with metals

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity:	:	Mixture; Not Determined.
Acute oral toxicity Chromic (VI) Acid	:	LD50, rat Dose: 52 mg/kg

PERMATREAT® 1500

Version 1.1
Revision Date 07/08/2011

Print Date 12/03/2013

SECTION 12. ECOLOGICAL INFORMATION

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

Refer to Bill of Lading.

SECTION 15. REGULATORY INFORMATION

TSCA Status	:	All components of this material comply with US TSCA requirements.	
SARA 313 Components	:	Chromic (VI) Acid	CAS-No. 1333-82-0
	:	Chromium (III) chromate (VI)	CAS-No. 24613-89-6
CERCLA Reportable Quantity	:	Chromic (VI) Acid	10 Pounds
	:	Chromium (III) chromate (VI)	10 Pounds
California Prop. 65	:	N.D	
NFPA	:	3 0 0 Corrosive Acid	
HMIS	:	3 0 0 J	
WHMIS	:	E: Corrosive Material D2A: Very Toxic Material Causing Other Toxic Effects	

SECTION 16. OTHER INFORMATION

Further information

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

PERMATREAT® 1500

Version 1.1
Revision Date 07/08/2011

Print Date 12/03/2013

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

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **00518**

GENERATOR INFORMATION

Name: [REDACTED] USEPA ID # _____
 Facility Address: [REDACTED] SIC/NAICS Code: _____ 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: [REDACTED] Phone: [REDACTED] Fax: [REDACTED]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Listed and Characteristic Neutral Solutions

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

Bulked at TSDF

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: F006-9, D004-11

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Blue/green</u>	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other _____	<i>acceptable</i> [Signature] 070314
--	---	---	---	--

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
Nickel Sulfate	15	1	Zinc Ammonium Chloride	15	0
Nickel Chloride	15	1	Copper Chloride	25	0
Water	99	85	Copper Sulfate	20	0
Sludge	5	0	Tin Chloride	10	0
Ammonium Chloride	15	0	Sodium Dichromate	20	0

GENERATOR INFORMATION

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

BILLING INFORMATION SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Sulfuric Acid

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

Unused Sulfuric or from roasting Sulfur, may be contaminated.

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other > 1.4	<i>acceptable</i> <i>070314</i>
---	---	---	--	------------------------------------

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

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

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Sulfuric Acid	100	50			
water	50	0			
Sludge	1	0			

GENERATOR INFORMATION

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

BILLING INFORMATION

SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Sodium Hydroxide

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

Bulked at TSDF

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: D002 F007 F009 D004-11

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> >5%	Layers: <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other _____	acceptable 070314
--	--	---	---	----------------------

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 Hydroxide	15	1			
Water	99	85			
Sludge	5	0			

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

Lab Analysis Generator Knowledge TCLP TOTAL

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

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds _____
- DOT Shipping Name Waste Corrosive Liquid, Basic, Inorganic, nos Hazard Class 8 UN/NA 3266
- PG II ERG 154 Hazardous Constituents for "n.o.s." (sodium hydroxide)
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: 200,000 USG or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

Printed Name: _____ Title: _____
 Generator's Signature: _____ Date: 6/30/2014

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

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

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

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

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

Generator Waste Profile
 Profile # 00532

GENERATOR INFORMATION

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

BILLING INFORMATION

SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Sodium Aluminate

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

Bulked at TSDF

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input checked="" type="checkbox"/> 1.3 - 1.4 Exact / Other _____	<i>acceptable</i> <i>070314</i>
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pH: NA ≤ 2 2 - 4 4 - 6 6 - 8 8 - 10 10 - 12.5 ≥ 12.5

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

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Sodium Hydroxide	25	1			
Water	99	75			
Sludge	5	0			

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

Lab Analysis Generator Knowledge TCLP TOTAL

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

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

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 Aluminate Solution Hazard Class 8 UN/NA 1819

PG II ERG 154 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: 200,000 USG 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 characterizations.

Printed Name: _____ Title: _____

Generator's Signature: _____ Date: 6/30/2014

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

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **00524**

GENERATOR INFORMATION

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

BILLING INFORMATION SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Nickel Plating Solution

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

Bulked at TSDF

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: F006 D008

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Blue/green</u>	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other _____	<i>accepted</i> <i>LD</i> <i>070314</i>
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pH: NA ≤ 2 2-4 4-6 6-8 8-10 10-12.5 ≥ 12.5

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

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Nickel Sulfate	15	1			
Nickel Chloride	15	1			
Water	99	85			
Sludge	5	0			
Ammonium Chloride	15	0			

GENERATOR INFORMATION

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

BILLING INFORMATION SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Sodium Hydroxide

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

Bulked at TSDF

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: D002 F007 F009

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other _____	accepted 070314
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pH: NA ≤ 2 2 - 4 4 - 6 6 - 8 8 - 10 10 - 12.5 ≥ 12.5

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

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Sodium Hydroxide	15	1			
water	99	85			
Sludge	5	0			

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

Lab Analysis Generator Knowledge TCLP TOTAL

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

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

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 Corrosive Liquid, Basic, Inorganic, nos Hazard Class 8 UN/NA 3266

PG II ERG 154 Hazardous Constituents for "n.o.s." (sodium hydroxide)

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: 200,000 USG or One Time
6. Special Handling Requirements including PPE: _____

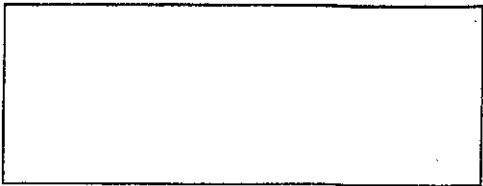
CERTIFICATION STATEMENT

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 _____ Environmental Geo-Technologies makes will be consistent with the results of the sample character _____

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

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample of the waste described in the above referenced 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

GENERATOR INFORMATION

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

BILLING INFORMATION

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:
Pickle Liquor
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
Pickling of Steel

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: D002 D006 D007 D008 K062

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>GREEN</u>	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input checked="" type="checkbox"/> 1.3 - 1.4 Exact / Other _____	accepted RD 070314
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pH: NA ≤ 2 2 - 4 4 - 6 6 - 8 8 - 10 10 - 12.5 ≥ 12.5

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

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Hydrochloric Acid	10	0			
Sulfuric Acid	10	0			
water	95	85			
Sludge	5	0			

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

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

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked:

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds _____
- DOT Shipping Name Waste Corrosive Liquid, Acidic, Inorganic, nos Hazard Class 8 UN/NA 3264
- PG II ERG 154 Hazardous Constituents for "n.o.s." (hydrochloric or sulfuric acid)
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: 200,000 USG or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

Printed Name: _____ Title: _____
 Generator's Signature: _____ Date: 6/30/2014

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

- _____ 2. _____
 SAMPLING METHOD COLLECTION POINT
- _____
- _____
- Sample 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

GENERATOR INFORMATION

Name: [REDACTED] USEPA ID # _____
 Facility Address: [REDACTED] SIC/NAICS Code: _____ 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: [REDACTED] Phone: [REDACTED] Fax: [REDACTED]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Mineral Acids

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

Bulked at TSDF

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: D002 D004 D005 D006 D007 D008 D009 D010 D011

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other GREEN	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input checked="" type="checkbox"/> 1.3-1.4 Exact / Other _____	<i>acceptable</i> <i>100</i> <i>070314</i>
---	---	---	--	--

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

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

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Hydrochloric Acid	15	0			
Sulfuric Acid	20	0			
water	95	85			
Sludge	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	<input type="checkbox"/>	_____ ppm	Aromatic Amine	<input type="checkbox"/>	_____ ppm	Arsenic (As)	D004	<input type="checkbox"/>	< 5 ppm >5 ppm
Dioxins	<input type="checkbox"/>	_____ ppm	Pesticides	<input type="checkbox"/>	_____ ppm	Barium (Ba)	D005	<input type="checkbox"/>	<100 ppm >100 ppm
Cyanides Reactive	<input type="checkbox"/>	_____ ppm	Rodenticides	<input type="checkbox"/>	_____ ppm	Cadmium (Cd)	D006	<input type="checkbox"/>	< 1 ppm >1 ppm
Cyanides Total	<input type="checkbox"/>	_____ ppm	Fungicides	<input type="checkbox"/>	_____ ppm	Chromium (Cr)	D007	<input type="checkbox"/>	< 5 ppm >5 ppm
Sulfides Reactive	<input type="checkbox"/>	_____ ppm				Lead (Pb)	D008	<input type="checkbox"/>	< 5 ppm >5 ppm
Sulfides Total	<input type="checkbox"/>	_____ ppm				Mercury (Hg)	D009	<input type="checkbox"/>	< 0.2 ppm >0.2 ppm
						Selenium (Se)	D010	<input type="checkbox"/>	< 1 ppm >1 ppm
						Silver (Ag)	D011	<input type="checkbox"/>	< 5 ppm >5 ppm

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds _____
- DOT Shipping Name Waste Corrosive Liquid, nos Hazard Class 8 UN/NA 1760
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: 200,000 USG or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

Printed Name: _____ Title: _____
 Generator's Signature: _____ Date: 6/30/2014

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

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **00529**

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 Title: [REDACTED] Phone: [REDACTED]

BILLING INFORMATION

Company Name: [REDACTED]
 Address: [REDACTED]
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]
 Attention: [REDACTED] Phone: [REDACTED]

WASTE INFORMATION

Name of Waste/Common Chemical Name:
Potassium Hydroxide / Water
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
Unused / Discarded material

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other _____	<i>acceptable</i> <i>07.03.14</i>
---	--	--	--	--------------------------------------

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

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

VOC CONCENTRATION - <10 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Potassium Hydroxide</u>	<u>45</u>	<u>10</u>			
<u>Water</u>	<u>90</u>	<u>55</u>			

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

Lab Analysis Generator Knowledge TCLP TOTAL

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

TCLP Organics D012 - D042 above regulatory limits: Present Not Present

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds: 100
- DOT Shipping Name: RO. Waste Corrosive Liquids Hazard Class: 8 UN/NA: 1700
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: 2 6. Anticipated Volume / Units per Year: _____ or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

Printed Name: _____ Title: Office manager
Generator's Signature: _____ Date: 1/13/14

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

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



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

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

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

MSDS Material Safety Data Sheet

From: Mallinckrodt Baker, Inc.
222 Red School Lane
Phillipsburg, NJ 08855



24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 619-496-6565

Outside U.S. and Canada
Chemtree: 703-527-3687

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-622-2537) for assistance.

POTASSIUM HYDROXIDE (10 - 45%) Solutions and Concentrates

1. Product Identification

Synonyms: Caustic potash - liquid or solutions; Potassium hydrate

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

Molecular Weight: 56.11

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

Product Codes:

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

Mallinckrodt: 6671, 6968, H061, H320, V034

2. Composition/Information on Ingredients

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

3. Hazards Identification

Emergency Overview

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

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

Health Rating: 3 - Severe (Poison)

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 4 - Extreme (Corrosive)

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

Storage Color Code: White Stripe (Store Separately)

Potential Health Effects

Inhalation:

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

Ingestion:

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

Skin Contact:

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

Eye Contact:

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

Chronic Exposure:

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

Aggravation of Pre-existing Conditions:

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

4. First Aid Measures

Inhalation:

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

Ingestion:

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

Skin Contact:

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

Eye Contact:

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

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

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

Special Information:

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

6. Accidental Release Measures

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

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

7. Handling and Storage

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

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

For Potassium Hydroxide [1310-58-3]:

- OSHA Permissible Exposure Limit (PEL):

2 mg/m³ Ceiling

- ACGIH Threshold Limit value (TLV):

2 mg/m³ Ceiling

Ventilation System:

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

Personal Respirators (NIOSH Approved):

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

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

Skin Protection:

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

Eye Protection:

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

9. Physical and Chemical Properties

Appearance:

Clear, colorless solution.

Odor:

Odorless.

Solubility:

Completely soluble in water.

Specific Gravity:

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

pH:

13.5 (0.1 molar solution)

% Volatiles by volume @ 21C (70F):

90 (as water)

Boiling Point:

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

Melting Point:

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

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

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

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Potassium oxide.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

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

Conditions to Avoid:

Heat, incompatibles.

11. Toxicological Information

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

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

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

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

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

13. Disposal Considerations

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

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION

Hazard Class: 8

UN/NA: UN1814

Packing Group: II

Information reported for product/size: 360LB

International (Water, I.M.O.)

Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION

Hazard Class: 8

UN/NA: UN1814

Packing Group: II

Information reported for product/size: 360LB

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan
Australia			
-----	-----	-----	-----
Potassium Hydroxide (1310-58-3)	Yes	Yes	Yes
Yes			
Water (7732-18-5)	Yes	Yes	Yes
Yes			

-----\Chemical Inventory Status - Part 2\-----

Ingredient	Korea	--Canada--	
		DSL	NDSL
Phil.			
Potassium Hydroxide (1310-58-3)	Yes	Yes	No
Water (7732-18-5)	Yes	Yes	No

-----\Federal, State & International Regulations - Part 1\-----

Ingredient Chemical Catg.	-SARA 302-		-----SARA
	RQ	TPQ	List
Potassium Hydroxide (1310-58-3)	No	No	No
Water (7732-18-5)	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

Ingredient	CERCLA	-RCRA-	
		261.33	8 (d)
Potassium Hydroxide (1310-58-3)	1000	No	No
Water (7732-18-5)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
 Reactivity: Yes (Pure / Liquid)

Australian Hazchem Code: 2R

Poison Schedule: S6

WHMIS:

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

16. Other Information

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

Label Hazard Warning:

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

Label Precautions:

- Do not breathe mist.
- Do not get in eyes, on skin, or on clothing.
- Avoid breathing mist.
- Keep container closed.
- Use only with adequate ventilation.
- Wash thoroughly after handling.

Label First Aid:

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

Product Use:

Laboratory Reagent.

Revision Information:

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

Disclaimer:

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

INFORMATION.

Prepared by: Environmental Health & Safety

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

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **60531**

GENERATOR INFORMATION

Name: [REDACTED] USEPA ID # _____
 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:
Benzene contaminated water - 1.3 ppm TCEP
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
Removal of liquid from old VST

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (POBs, etc.)
- List ALL Applicable Waste Codes: D018

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5 %	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other _____	acceptable 07.15.14
--	--	---	---	------------------------

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: max 100 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
WATER	99.99	99.99			%
BENZENE	.01	.001			%
					%
					%
					%

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

Lab Analysis Generator Knowledge TCLP TOTAL

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

D018

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173-Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds 10
- DOT Shipping Name HA3082, RD Hazardous waste, Liquid, n.o.s. Hazard Class 9 HA3082
- PG III ERG 171 Hazardous Constituents for "n.o.s." benzene, D018
- Method of Shipment: Bulk Tanker Vac. truck Rail Car Drums Totes
- Number of Units to Ship Now: 1 6. Anticipated Volume / Units per Year: 5000 Gallons or One Time
- Special Handling Requirements including PPE:

CERTIFICATION STATEMENT

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

Printed Name: _____ Title: _____
 Generator's Signature: _____ Date: 7/15/2014

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

1. _____	2. _____	
SAMPLING METHOD	COLLECTION POINT	
3. _____		
SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER		
4. Sample No. _____	Preservation: Yes <input type="checkbox"/> No <input type="checkbox"/>	

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

00532

WASTE MATERIAL PROFILE

PROFILE #: 071714-01

Account #: _____ Suffix Code: _____ P Code: _____
Salesperson: _____ Employee #: _____ Email: _____ Recover/ Reclaimable %

A. CUSTOMER INFORMATION

Check if Billing Address is the Same as Generator Address

Generator _____ Billing Company _____
Facility Address (No P.O. Box) _____ Billing Address _____
City/State/Zip _____ City/State/Zip _____
Technical Contact _____ Billing Contact _____
Phone _____ FAX _____
Phone _____ FAX _____
Email _____
NAICS # _____ CESQG SQG LQG EPA ID# _____ State ID# _____

B. SHIPPING INFORMATION

US DOT Shipping Name NA1993, WASTE Combustible LIQUIDS, N.O.S., (ACETONE, METHANOL), PG III
Hazardous Class/Division # _____ UN/NA # _____ Packing Group _____ RQ _____
Size _____ Container Type tanker Quantity _____ Frequency 500,000 gallons annual

C. GENERAL MATERIAL & REGULATORY INFORMATION

Name of Material F-coded waste water
Process Generating the Material Filtration, distillation, bulking of process water
Yes No Yes No
Regulated or Licensed Radioactive Waste
Regulated Medical/Infectious Waste
Waste Subject to Benzene NESHAP regulations
TSCA Regulated PCB Waste: List PCB level in section D
Regulated Ozone Depleting Substance
CERCLA Regulated (Superfund) Waste
Contains UHCs/Constituents of Concern: List in section D
Exempt Waste: If yes, list ref. 40 CFR
Does waste contain, or is derived from, dioxin-listed wastes with F020-F023 or F027 waste codes?
State Hazardous Waste: List Codes
EPA Hazardous Waste: List Codes
Source Code G ___ Form Code W ___ Mgt. Method H ___
D006 D007 D008 D035
F003 F005 U002 U154
U159 U161

D. MATERIAL COMPOSITION

(Range Total > or = 100%) or ppm

Table with 2 columns: Component Name and Range/Percentage. Includes Isopropanol (1-4), Acetone (0-3), Ethanol (0-2), Diacetone alcohol (0-1), N-methyl pyrrolidone (0-1), Glycol ethers (0-1), Water (balance), and Total: 100%.

E. REACTIVE CHARACTERISTICS

Yes No X Oxidizer
Yes No X React. Sulfides _____ ppm
Yes No X React. Cyanides _____ ppm
Yes No X Water/Air (Pyrophoric) React.
Elemental Constituents (ppm):
No detectable Elements Sb _____ As _____ Ba _____
Be _____ Cd _____ Cr _____ Pb 10 Hg _____
Ni 10 Se _____ Ag _____ Tl _____ V _____
Metals Data based on: TCLP Total Analysis Generator Knowledge (no testing)

F. PHYSICAL CHARACTERISTICS

Flash Point: _____ °F (if <73°F) pH Range: ≤2
73-<100 100-141 >2-4 X >4-10
X 142-<200 ≥200 >10-<12.5 ≥12.5
Phases 1 % Liquid 100 Viscosity cps _____
% Sludge 0 % Solid _____ % Halogens 0
BTU's/lb: _____ Specific Gravity: _____

G. COMMENTS

Customer Restrictions: Yes X No Analyze for Recovery? Yes No Tolling Stream? Yes X No

H. GENERATOR'S CERTIFICATION

I hereby certify that I am an authorized agent of the generator, and warrant on behalf of the generator that the information supplied on this form and on any attachments or supplements hereto is complete and accurate, and that all known or suspected hazards of the material(s) described herein have been disclosed. I agree that if the sample test results indicate a discrepancy with any information supplied on this form, that either _____ or the generator may initiate further testing and evaluation in accordance with the terms and conditions of the contract between _____ and the generator and that this profile certification may be amended accordingly.

00532

Generator Signature:



Printed Name and Title:



Date: 7/22/14

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/18/14
Receiving ID#	TK A+AA (Haz Waste w. 7e)
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		Oilfield Sites Only	
All Waste Shipments			
Compatible? (RT#)	Yes <input checked="" type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	130	Magnesium	
pH (S.U.)	7.6	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	0.99	TDS	
Physical Description	liquid w/ P	Resistivity	
Stream Consistency	<input checked="" type="radio"/> Yes No	Sulfate	
Oil in Sample	Yes <input checked="" type="radio"/> No		
Temperature	72°F		
Conductivity	3.7 mS		
% Solids	0.2		
Turbidity	<input checked="" type="radio"/> Yes No		
Color (visual)	tan		
TSS (%)	0.1		
Radiation Screen (as needed)	Negative		
Lab Signature	[Signature]		

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE [REDACTED]

OTHER: [REDACTED]

PRODUCT NAME: F-Code Waste Water

07/09/2008

DATE PRINTED: 7/10/08

ITEM NUMBER: 1HF806

DOT DESCRIPTION: WASTE FLAMMABLE LIQUIDS, N.O.S. (METHANOL/ETHANOL),
3, UN1993,III

RQ-F003, F005, D001

I. HAZARDOUS INGREDIENTS

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

SARA 313- SUPPLIER NOTIFICATION

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

Subject chemicals are as follows:

NONE AT LEVELS REQUIRING REPORTING

II. PHYSICAL DATA

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

BOILING POINT: 200F FREEZING POINT: 32F

SPECIFIC GRAVITY (H2O=1): 0.98

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

VAPOR DENSITY (AIR=1): 1.0

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

EVAPORATION RATE (BUTYL ACETATE=1): >1

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE : [REDACTED] OTHER : [REDACTED]

PRODUCT NAME: F-Code Waste Water

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

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

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

V. REACTIVITY DATA

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Not applicable.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

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

Conditions to Avoid:

No information found.

VI. SPILL OR LEAK PROCEDURES

****Steps to be Taken if Material is Released or Spilled****

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

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

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]

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:
Aluminum Bromide

Process Generating Waste (Please be specific, incomplete information may delay the approval process):
Washing Product to remove aluminum bromide salt

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Table with 5 columns: Color, Suspended Solids, Layers, Specific Gravity, and a handwritten note 'acceptable 07.22.14'.

pH: [] NA [X] <= 2 [X] 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 - [] PPM (MUST BE COMPLETED)

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

Table with 5 columns: CONSTITUENT, MAX, MIN, CONSTITUENT, MAX, MIN. Rows include Aluminum Bromide (25-10%) and Water (85-75%).

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

Lab Analysis Generator Knowledge TCLP TOTAL

Table with columns for metal names (PCB, Dioxins, Cyanides, etc.), concentration limits (D004-D011), and checkboxes for presence.

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, etc.

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 Aluminum Bromide Solution Hazard Class 8 UN/NA 2558
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: 500,000 kg or One Time

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.

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

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.

Form with fields for SAMPLING METHOD, COLLECTION POINT, SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER, Sample No., and Preservation status.

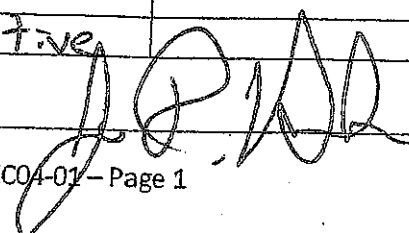
Table for CHAIN OF CUSTODY with columns for Date and Time, and rows for each person handling the sample.

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/21/14
Receiving ID#	Aluminum bromide
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		Oilfield Brines Only	
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.8	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.03	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	<input checked="" type="radio"/> Yes <input type="radio"/> No	Sulfate	
Oil in Sample	Yes <input checked="" type="radio"/> No		
Temperature	75°F		
Conductivity	485 mS		
% Solids	3.4		
Turbidity	Yes <input checked="" type="radio"/> No		
Color (visual)	Colorless		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

GENERATOR INFORMATION

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

BILLING INFORMATION

SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:
Acid Rinse Water

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

Acid Rinse Water generated from electropolishing of metal parts with sulfuric and phosphoric acid. Cyanides are not used in the process

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> X Other _____	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other _____	acceptable 09.22.14
---	---	---	--	------------------------

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 - <10 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Sulfuric Acid</u>	<u>5</u>	<u>1</u>			
<u>Phosphoric Acid</u>	<u>5</u>	<u>1</u>			
<u>Water</u>	<u>BALANCE</u>				

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

Lab Analysis Generator Knowledge TCLP TOTAL

<table border="0"> <tr> <td>Not Present</td> <td>Concentration</td> <td>Not Present</td> <td>Concentration</td> </tr> <tr> <td><input type="checkbox"/></td> <td>_____ ppm</td> <td><input type="checkbox"/></td> <td>_____ ppm</td> </tr> </table>		Not Present	Concentration	Not Present	Concentration	<input type="checkbox"/>	_____ ppm	<input type="checkbox"/>	_____ ppm	<table border="0"> <tr> <td>Aromatic Amine</td> <td>_____ ppm</td> <td>Arsenic (As)</td> <td>D004 < 5 ppm</td> </tr> <tr> <td>Pesticides</td> <td>_____ ppm</td> <td>Barium (Ba)</td> <td>D005 <input type="checkbox"/> <100 ppm</td> </tr> <tr> <td>Rodenticides</td> <td>_____ ppm</td> <td>Cadmium (Cd)</td> <td>D006 < 1 ppm</td> </tr> <tr> <td>Fungicides</td> <td>_____ ppm</td> <td>Chromium (Cr)</td> <td>D007 < 5 ppm >5 ppm</td> </tr> <tr> <td></td> <td></td> <td>Lead (Pb)</td> <td>D008 < 5 ppm</td> </tr> <tr> <td></td> <td></td> <td>Mercury (Hg)</td> <td>D009 < 0.2 ppm</td> </tr> <tr> <td></td> <td></td> <td>Selenium (Se)</td> <td>D010 < 1 ppm</td> </tr> <tr> <td></td> <td></td> <td>Silver (Ag)</td> <td>D011 <input type="checkbox"/> < 5 ppm</td> </tr> </table>		Aromatic Amine	_____ ppm	Arsenic (As)	D004 < 5 ppm	Pesticides	_____ ppm	Barium (Ba)	D005 <input type="checkbox"/> <100 ppm	Rodenticides	_____ ppm	Cadmium (Cd)	D006 < 1 ppm	Fungicides	_____ ppm	Chromium (Cr)	D007 < 5 ppm >5 ppm			Lead (Pb)	D008 < 5 ppm			Mercury (Hg)	D009 < 0.2 ppm			Selenium (Se)	D010 < 1 ppm			Silver (Ag)	D011 <input type="checkbox"/> < 5 ppm
Not Present	Concentration	Not Present	Concentration																																								
<input type="checkbox"/>	_____ ppm	<input type="checkbox"/>	_____ ppm																																								
Aromatic Amine	_____ ppm	Arsenic (As)	D004 < 5 ppm																																								
Pesticides	_____ ppm	Barium (Ba)	D005 <input type="checkbox"/> <100 ppm																																								
Rodenticides	_____ ppm	Cadmium (Cd)	D006 < 1 ppm																																								
Fungicides	_____ ppm	Chromium (Cr)	D007 < 5 ppm >5 ppm																																								
		Lead (Pb)	D008 < 5 ppm																																								
		Mercury (Hg)	D009 < 0.2 ppm																																								
		Selenium (Se)	D010 < 1 ppm																																								
		Silver (Ag)	D011 <input type="checkbox"/> < 5 ppm																																								
PCB	_____ ppm																																										
Dioxins	_____ ppm																																										
Cyanides Reactive	_____ ppm																																										
Cyanides Total	_____ ppm																																										
Sulfides Reactive	_____ ppm																																										
Sulfides Total	<input type="checkbox"/> _____ ppm																																										

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds _____
- DOT Shipping Name RQ Waste Corrosive Liquid, Acidic, Inorganic, n.o.s. (Sulfuric Acid, Phosphoric Acid) UN/NA 3264
Hazard Class _____
- PG 11 ERG _____ Hazardous Constituents for "n.o.s." _____
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: 3500 - 4500 gallons/month 6. Anticipated Volume / Units per Year:
or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

Printed Name: _____ Title: _____

Generator's Signature: _____ Date: 7-21-14

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

1. _____ 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.

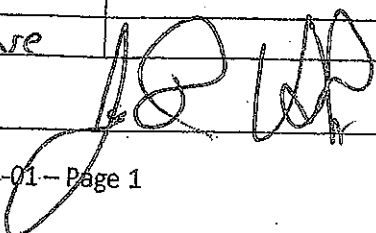
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	7/21/14
Receiving ID#	Acid Rinse
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		Oilfield Flumes Only	
All Waste Parameters			
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.)	1.7	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	75°F		
Conductivity	26.5mS		
% Solids	4.6		
Turbidity	Yes (No)		
Color (visual)	Green		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

GENERATOR INFORMATION

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

BILLING INFORMATION

SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name: Chiller waste (Lithium Bromide)
 Process Generating Waste (Please be specific, incomplete information may delay the approval process): Lithium bromide drained from chiller unit.

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other _____	acceptable 07.23.14
--	---	---	---	------------------------

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 - <10 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
Lithium bromide	56	52			
Potassium hydroxide					
Water	44	46			

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

Not Concentration Present	Not Concentration Present	Arsenic (As)	D004	<input checked="" type="checkbox"/> < 5 ppm	_____ ppm
		Barium (Ba)	D005	<input checked="" type="checkbox"/> <100 ppm	_____ ppm

PCB	<input type="checkbox"/>	ppm	Aromatic Amine	<input type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input type="checkbox"/>	< 1	ppm	ppm
Dioxins	<input type="checkbox"/>	ppm	Pesticides	<input type="checkbox"/>	ppm	Chromium (Cr)	D007	<input type="checkbox"/>	< 5	ppm	ppm
Cyanides Reactive	<input type="checkbox"/>	ppm	Rodenticides	<input type="checkbox"/>	ppm	Lead (Pb)	D008	<input type="checkbox"/>	< 5	ppm	ppm
Cyanides Total	<input type="checkbox"/>	ppm	Fungicides	<input type="checkbox"/>	ppm	Mercury (Hg)	D009	<input type="checkbox"/>	< 0.2	ppm	ppm
Sulfides Reactive	<input type="checkbox"/>	ppm				Selenium (Se)	D010	<input type="checkbox"/>	< 1	ppm	ppm
Sulfides Total	<input type="checkbox"/>	ppm				Silver (Ag)	D011	<input type="checkbox"/>	< 5	ppm	ppm

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? X Yes No
- Reportable Quantity (RQ) in pounds 100
- DOT Shipping Name UN1760 Corrosive liquid, N.O.S. Hazard Class 8 UN/NA
- PG III ERG 154 Hazardous Constituents for "n.o.s." Lithium bromide & potassium hydroxide
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: 14x 30 gallon 6. Anticipated Volume / Units per Year: or X One Time
- Special Handling Requirements including PPE:

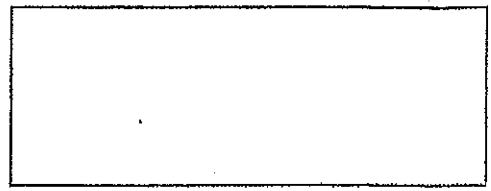
CERTIFICATION STATEMENT

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

Printed Name: [Redacted] Title: [Redacted]
Generator's Signature: [Redacted] Date: 7/1/14

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

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



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

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



Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

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

Certificate of Analysis

Date: July 17, 2014

Customer: [REDACTED]

Project Name: [REDACTED]
Project Number: [REDACTED]
Submit Date: 7/15/2014
Collection Date: 7/15/2014

Lab Sample ID: [REDACTED]

Sample ID: 001: Lithium Bromide

Parameters	Result	LRL	Units	Method Reference	Analysis Date	Analyst
pH	14.0	1-14		SW846 9045C	7/15/2014	LLW
Total Metals Analysis						
Arsenic	ND	0.5	mg/L	SW846 7060	7/16/2014	LLW
Lead	ND	0.5	mg/L	SW846 7420	7/16/2014	LLW
Potassium	5400	50	mg/L	SW846 7610	7/17/2014	LLW
Sodium	110	10	mg/L	SW846 7770	7/17/2014	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 Level

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: 7/17/2014

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # 00540

GENERATOR INFORMATION

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

HYDROCHLORIC ACID
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
STEEL CLEANING PRIOR TO HOT-DIP GALVANIZING

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>GREEN</u>	Suspended Solids: <input type="checkbox"/> 0-1 % <input type="checkbox"/> 2-5 % <input type="checkbox"/> 1-3 % <input checked="" type="checkbox"/> > 5 %	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other <u>1.210</u>	<u>acceptable</u> <u>07.29.14</u>
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pH: NA ≤ 2 2-4 4-6 6-8 8-10 10-12.5 ≥ 12.5

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

VOC CONCENTRATION - <10 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Water</u>	<u>95</u>	<u>95</u>			
<u>Hydrochloric Acid</u>	<u>4</u>	<u>2</u>			
<u>Titan</u>	<u>1</u>	<u>1</u>			

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

Lab Analysis Generator Knowledge TCLP TOTAL

	Not Present	Concentration		Not Present	Concentration							
PCB	<input checked="" type="checkbox"/>	_____ ppm	Aromatic Amine	<input checked="" type="checkbox"/>	_____ ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	< 5	ppm	_____ ppm	
Dioxins	<input checked="" type="checkbox"/>	_____ ppm	Pesticides	<input checked="" type="checkbox"/>	_____ ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	< 100	ppm	_____ ppm	
Cyanides Reactive	<input checked="" type="checkbox"/>	_____ ppm	Rodenticides	<input checked="" type="checkbox"/>	_____ ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	< 1	ppm	39.0 ppm	Mg/L
Cyanides Total	<input checked="" type="checkbox"/>	_____ ppm	Fungicides	<input checked="" type="checkbox"/>	_____ ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	< 5	ppm	754.0 ppm	Mg/L
Sulfides Reactive	<input checked="" type="checkbox"/>	_____ ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/>	< 5	ppm	211.0 ppm	Mg/L
Sulfides Total	<input checked="" type="checkbox"/>	_____ ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	< 0.2	ppm	_____ ppm	
						Selenium (Se)	D010	<input checked="" type="checkbox"/>	< 1	ppm	_____ ppm	
						Silver (Ag)	D011	<input checked="" type="checkbox"/>	< 5	ppm	_____ ppm	

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

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

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
- Reportable Quantity (RQ) in pounds 10
- DOT Shipping Name WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC Hazard Class 8 UN/NA 1789 ³²⁶⁴
- PG 11 ERG 153 Hazardous Constituents for "h.o.s." HYDROCHLORIC ACID
- Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
- Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: 45,500/GAL or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

Printed Name: _____ Title: _____
Generator's Signature: _____ Date: 04/01/11

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

1. _____ 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