

February 28, 2018

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

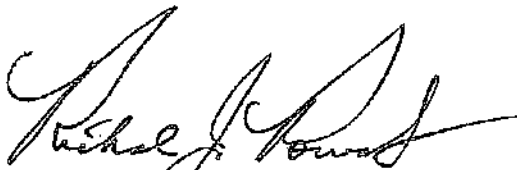
EGT is providing all of the attached information in the same sequence as required by both subject permits, i.e. Part II.D.1 (a-i), Part III, Attachment A, and Part III, Attachment E.G.2 & E.I.

EGT did not accept any F039 waste in January, 2018 so no Page A-3 of 3 laboratory analyses are necessary to be submitted as part of this MR.

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

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

Sincerely,



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

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

att.

rjp022818/EGTEPAMonthlyReport-January, 2018

## **AVERAGE INJECTION RATE**

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2018

CURRENT REPORTING MONTH JANUARY

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

Nov 2013

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
<b>MI-163-1W-C010 , Well #1-12</b>			
Current Month	77,579	0	77,579
Since facility first injected			13,541,792
<b>MI-163-1W-C011, Well #2-12</b>			
Current Month	0	0	0
Since facility first injected			4,648,736
		Lifetime Combined	18,190,528

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 50

$$\underline{50} \text{ lifetime number of months of injection} \times 43,830 \text{ minutes/month} = \underline{2,191,500} \text{ minutes of injection}$$

$$\text{Lifetime combined injected volume } \underline{18,190,528} \div \underline{2,191,500} \text{ minutes of injection} = \underline{8.3} \text{ gpm average injection rate}$$

**WELL 1 DATA**

WELL 01 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
1/1/2018	-4.3	-3.9	16.0	16.6	691.5	692.6	6.9	6.9	0.0	0.0	695.6	696.8
1/2/2018	-4.2	2.8	16.1	17.2	690.4	691.9	6.9	6.9	0.0	0.0	688.5	695.7
1/3/2018	-3.8	48.5	16.2	17.7	686.4	719.0	2.3	6.9	0.0	96.1	669.1	693.7
1/4/2018	-2.7	-1.8	15.9	17.1	689.2	690.2	0.7	2.3	0.0	0.0	691.8	692.7
1/5/2018	-2.8	-1.8	16.5	17.0	689.1	689.9	2.3	7.3	0.0	0.0	691.3	692.2
1/6/2018	104.0	-2.0	16.5	17.0	688.6	689.2	7.2	7.2	0.0	0.0	690.9	691.9
1/7/2018	3.9	-2.1	16.6	17.1	688.1	688.8	7.2	7.2	0.0	0.0	690.6	691.2
1/8/2018	-2.7	471.4	16.6	17.1	627.5	843.8	7.2	7.2	2.3	256.4	371.3	691.1
1/9/2018	-1.7	728.0	16.6	17.1	614.7	926.5	7.2	7.2	7.4	191.7	174.4	687.5
1/10/2018	-10.0	642.6	16.6	17.1	620.5	880.4	7.2	7.2	6.7	41.8	214.2	662.2
1/11/2018	-10.0	548.5	16.4	17.0	651.7	936.7	7.2	7.2	2.2	155.6	378.8	695.4
1/12/2018	-10.0	-7.2	16.5	17.1	656.1	664.3	0.6	0.6	0.0	44.1	666.0	672.3
1/13/2018	-8.0	-7.6	16.6	17.0	662.0	662.8	0.6	1.4	0.0	0.0	669.6	670.8
1/14/2018	-8.1	-7.8	16.6	17.0	662.5	662.9	1.4	1.4	0.0	0.0	670.4	670.9
1/15/2018	-8.0	754.2	16.6	17.1	662.6	1022.7	1.4	1.4	7.4	222.6	255.7	686.5
1/16/2018	-4.2	752.0	16.1	17.4	624.5	1011.5	2.9	2.9	3.6	137.2	245.8	744.2
1/17/2018	-1.2	752.1	16.5	17.0	640.1	996.2	1.2	3.0	6.0	37.7	216.9	681.6
1/18/2018	42.5	43.6	16.6	17.1	683.0	691.2	2.2	2.2	0.0	0.0	639.4	648.6
1/19/2018	42.3	42.7	16.0	17.3	691.1	693.5	2.2	2.2	0.0	0.0	648.5	651.2
1/20/2018	42.0	42.4	16.0	16.8	693.4	694.7	2.2	2.2	0.0	0.0	651.0	652.6
1/21/2018	42.0	42.2	16.0	16.3	694.5	694.8	2.2	2.2	0.0	0.0	652.3	652.7
1/22/2018	42.0	42.4	15.9	16.6	694.6	695.1	2.2	2.2	0.0	0.0	652.3	652.9
1/23/2018	-9.5	752.2	16.0	17.1	632.8	1004.5	2.2	6.7	7.5	129.3	238.0	670.4
1/24/2018	-7.2	-1.5	16.1	17.4	663.2	674.3	6.6	6.7	0.0	0.0	670.3	675.9
1/25/2018	-1.6	-0.9	16.0	16.7	673.5	675.9	1.3	6.6	0.0	0.0	674.8	677.3
1/26/2018	-1.4	-1.1	16.0	17.0	675.5	676.4	1.7	1.7	0.0	0.0	676.7	677.6
1/27/2018	-1.4	-1.1	16.1	17.3	676.3	677.0	1.3	1.4	0.0	0.0	677.5	678.3
1/28/2018	-1.3	-1.0	16.1	17.5	676.3	676.9	1.1	1.4	0.0	0.0	677.3	678.2
1/29/2018	-1.2	-1.0	16.1	17.0	676.1	676.7	1.4	1.4	0.0	0.0	677.2	677.9
1/30/2018	-8.7	755.1	16.6	17.2	662.3	1028.1	1.1	1.2	7.2	118.0	259.1	677.3
1/31/2018	-9.1	752.9	16.7	17.3	664.1	1036.3	1.3	1.3	3.2	104.0	273.5	687.5

## Circle Chart Index

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

### Chart Recorder #1

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

### Chart Recorder #2

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

### Chart Recorder #3

Channel #1

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

Channel #2

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

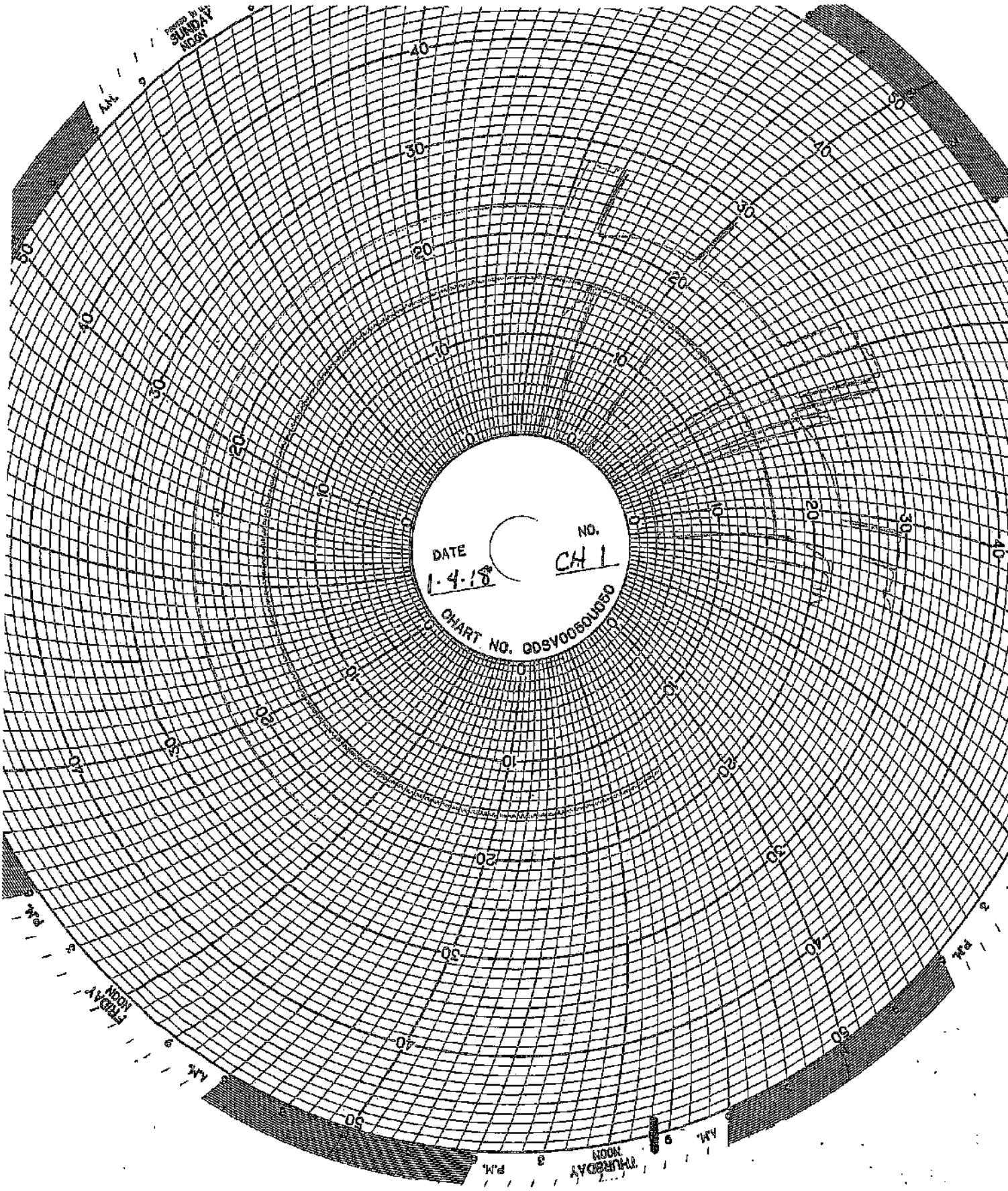
Channel #3

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

Channel #4

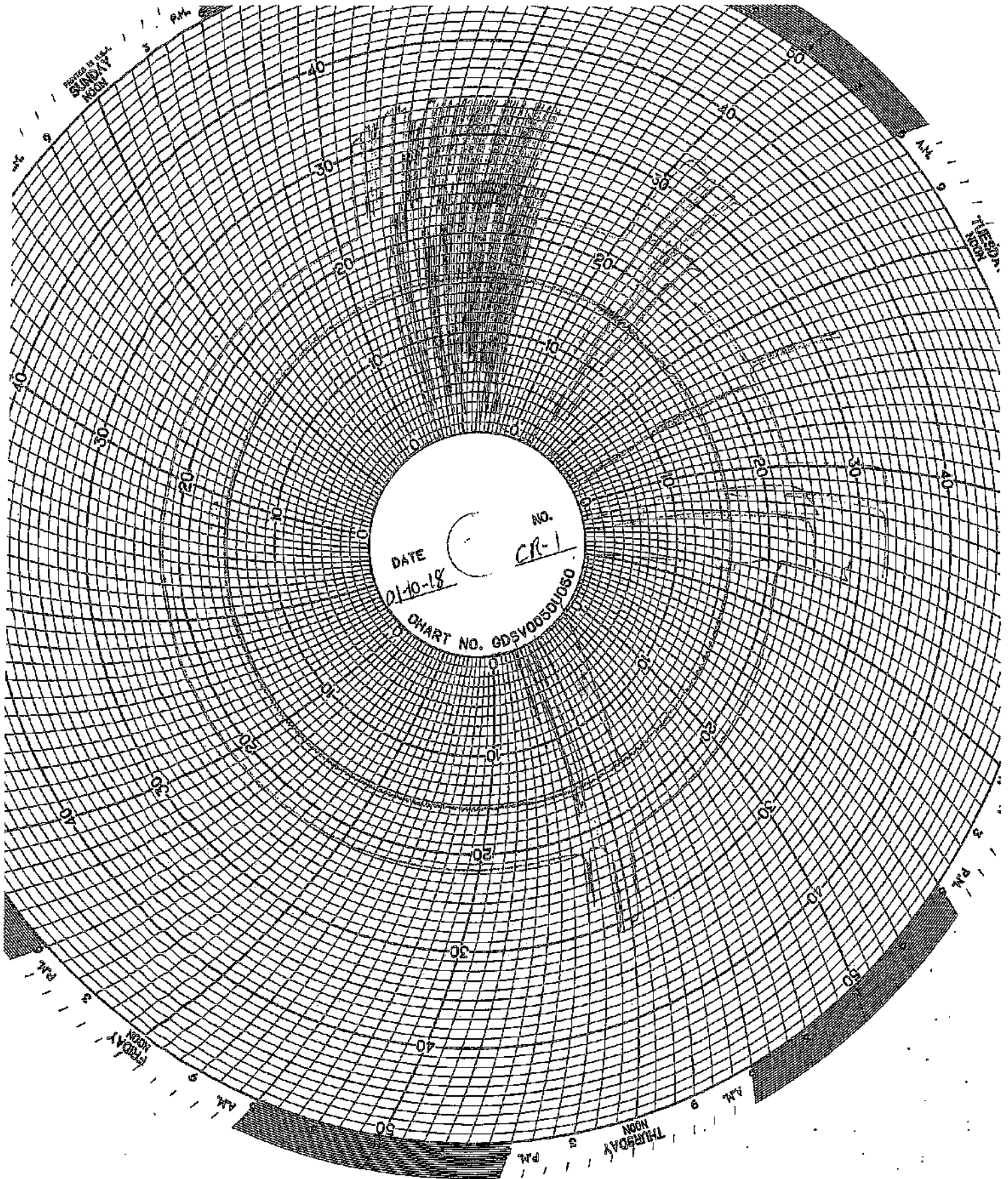
**Black Pen** - Temperature (chart value x 0)

Printed by the  
SUNDAY  
MOON



DATE 1-4-18  
NO. CH 1  
CHART NO. QDSV0050U50

THURSDAY  
FRIDAY  
SATURDAY  
SUNDAY  
MONDAY  
TUESDAY  
WEDNESDAY  
THURSDAY  
FRIDAY  
SATURDAY  
SUNDAY  
MONDAY  
TUESDAY  
WEDNESDAY



DATE 01-10-18  
NO. CR-1  
CHART NO. GDSV00501050

PRINTED IN U.S.A.  
SUNDAY  
NOON

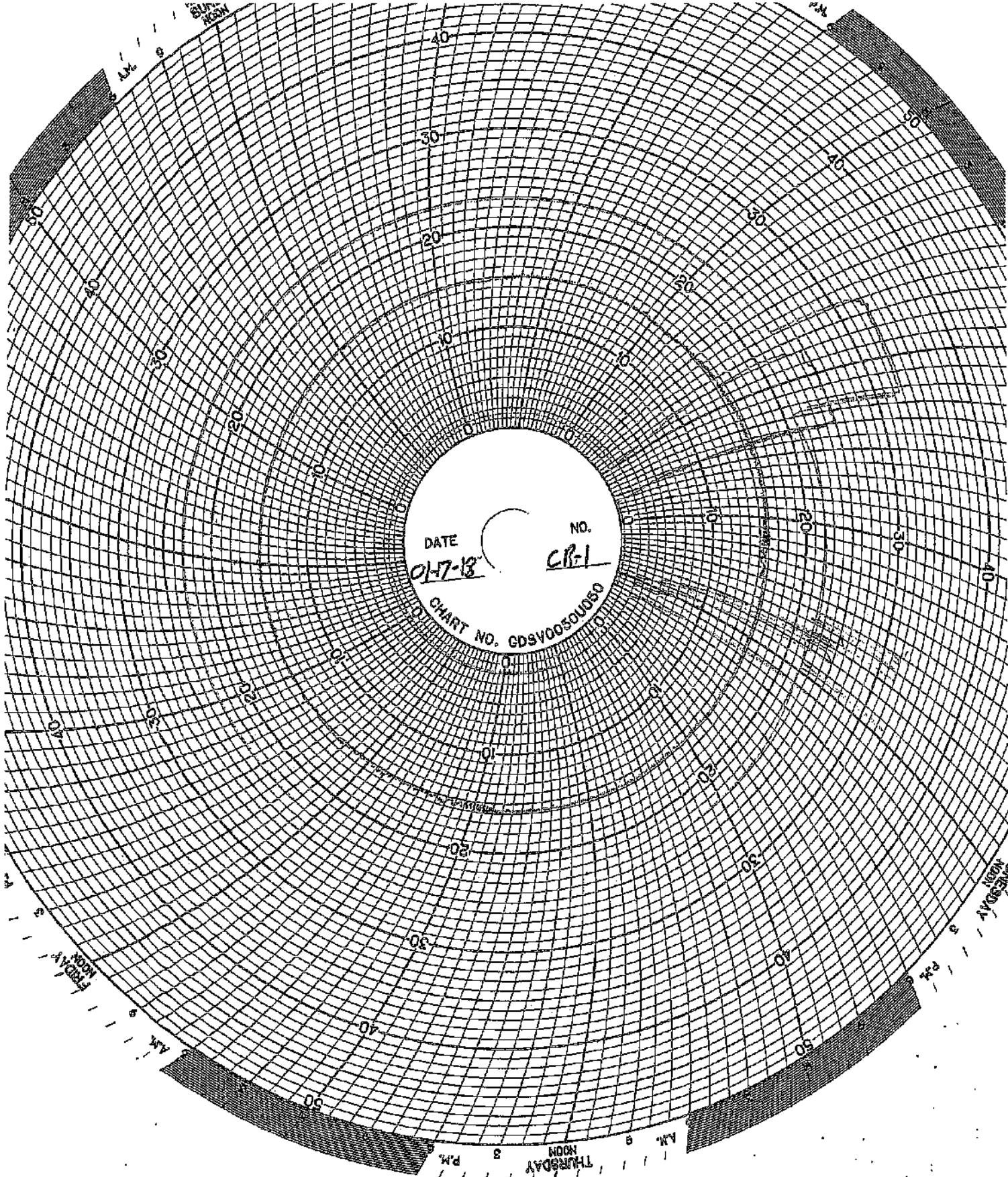
AM 9 11  
THURSDAY  
NOON

AM 9 11  
THURSDAY  
NOON

AM 9 11  
THURSDAY  
NOON

AM 9 11  
THURSDAY  
NOON





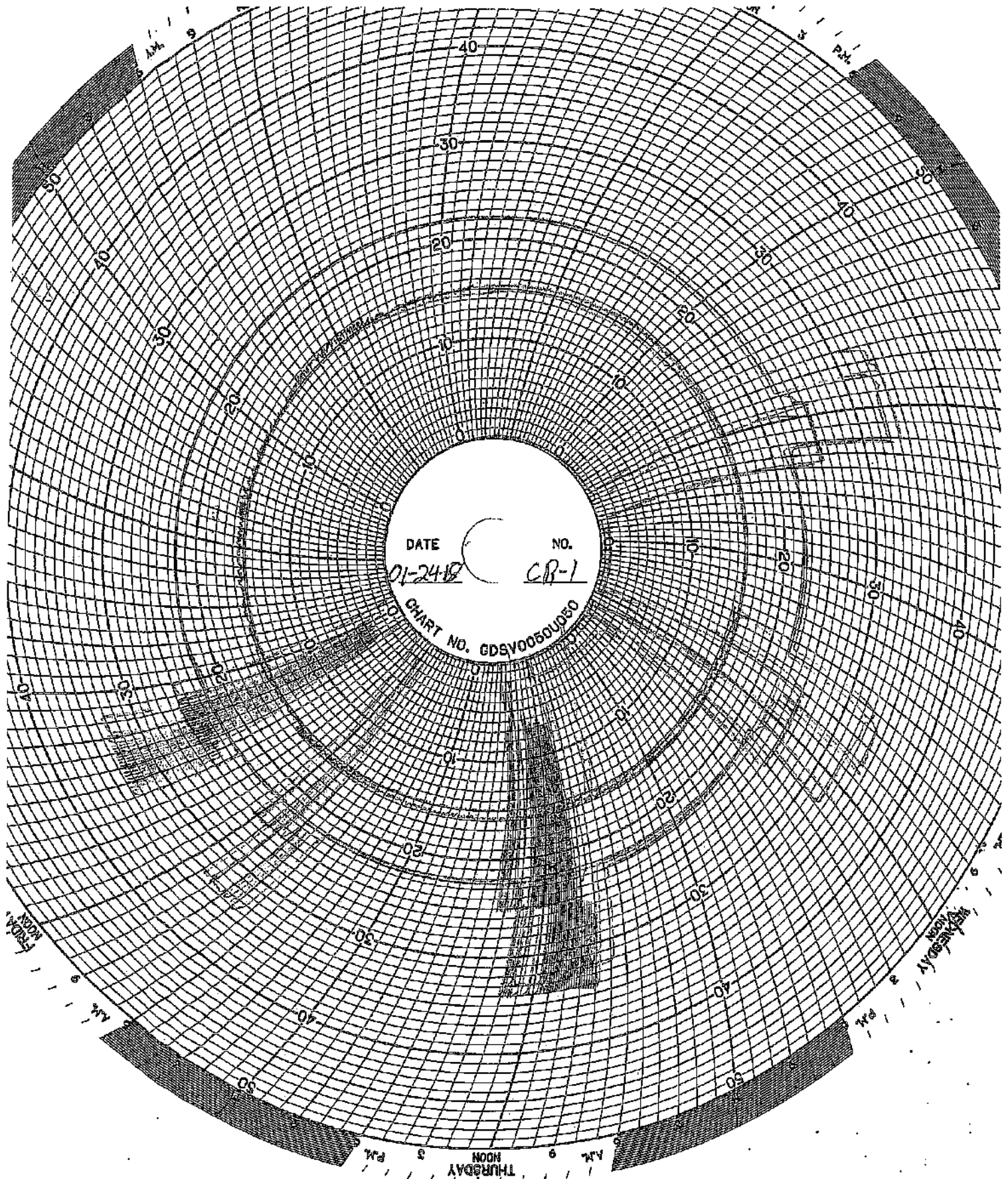
DATE 01-7-13  
NO. CR-1  
CHART NO. GDSV00501080

THURSDAY  
NOON 3 P.M.

FRIDAY  
NOON 3 P.M.

FRIDAY  
NOON 3 P.M.

FRIDAY  
NOON 3 P.M.



DATE 01-24-18 NO. CR-1  
CHART NO. GDSV00501050

THURSDAY  
NOON  
AM 9 3 PM

THURSDAY  
NOON  
AM 9 3 PM

THURSDAY  
NOON  
AM 9 3 PM

## **WELL 2 DATA**

Well 02 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (In)	Max Sight Glass Level (In)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
1/1/2018	0.0	0.0	16.7	17.0	193.7	194.9	6.9	6.9	0.0	0.0	193.7	194.9
1/2/2018	0.0	0.0	16.5	17.7	192.7	194.5	6.9	6.9	0.0	0.0	192.7	194.5
1/3/2018	0.0	0.0	16.7	17.1	192.5	193.7	2.3	6.9	0.0	0.0	192.5	193.7
1/4/2018	0.0	0.0	16.7	17.5	191.7	193.5	0.7	2.3	0.0	0.0	191.7	193.5
1/5/2018	0.0	0.0	16.8	17.1	191.0	192.3	2.3	7.3	0.0	0.0	191.0	192.3
1/6/2018	0.0	0.0	16.8	17.0	190.3	191.6	7.2	7.2	0.0	0.0	190.3	191.6
1/7/2018	0.0	0.0	16.8	17.1	190.1	191.8	7.2	7.2	0.0	0.0	190.1	191.8
1/8/2018	0.0	0.0	17.0	17.1	191.1	192.4	7.2	7.2	0.0	0.0	191.1	192.4
1/9/2018	0.0	0.0	16.9	17.2	191.2	192.3	7.2	7.2	0.0	0.0	191.2	192.3
1/10/2018	0.0	0.0	17.0	17.2	191.3	192.7	7.2	7.2	0.0	0.0	191.3	192.7
1/11/2018	0.0	0.0	17.0	17.2	192.0	193.3	7.2	7.2	0.0	0.0	192.0	193.3
1/12/2018	0.0	0.0	16.8	17.2	190.3	193.3	0.6	0.6	0.0	0.0	190.3	193.3
1/13/2018	0.0	0.0	16.8	17.0	189.4	191.0	0.6	1.4	0.0	0.0	189.4	191.0
1/14/2018	0.0	0.0	16.8	17.0	188.7	190.0	1.4	1.4	0.0	0.0	188.7	190.0
1/15/2018	0.0	0.0	16.9	17.1	188.6	189.6	1.4	1.4	0.0	0.0	188.6	189.6
1/16/2018	0.0	0.0	16.6	17.5	188.1	189.9	2.9	2.9	0.0	0.0	188.1	189.9
1/17/2018	0.0	0.0	16.8	17.0	187.8	189.1	1.2	3.0	0.0	0.0	187.8	189.1
1/18/2018	0.0	0.0	16.9	17.1	187.8	188.9	2.2	2.2	0.0	0.0	187.8	188.9
1/19/2018	0.0	0.0	16.6	17.1	187.3	188.9	2.2	2.2	0.0	0.0	187.3	188.9
1/20/2018	0.0	0.0	16.6	17.4	187.9	189.0	2.2	2.2	0.0	0.0	187.9	189.0
1/21/2018	0.0	0.0	17.0	17.0	187.9	188.8	2.2	2.2	0.0	0.0	187.9	188.8
1/22/2018	0.0	0.0	16.9	17.4	187.8	188.9	2.2	2.2	0.0	0.0	187.8	188.9
1/23/2018	0.0	0.0	16.7	17.5	187.4	188.7	2.2	6.7	0.0	0.0	187.4	188.7
1/24/2018	0.0	0.0	16.6	17.1	187.2	188.2	6.6	6.7	0.0	0.0	187.2	188.2
1/25/2018	0.0	0.0	16.6	17.5	186.9	187.9	1.3	6.6	0.0	0.0	186.9	187.9
1/26/2018	0.0	0.0	16.9	17.4	186.2	188.0	1.7	1.7	0.0	0.0	186.5	188.0
1/27/2018	0.0	0.0	16.7	17.4	186.9	188.1	1.3	1.4	0.0	0.0	186.9	188.1
1/28/2018	0.0	0.0	16.6	17.4	186.5	187.7	1.1	1.4	0.0	0.0	186.5	187.7
1/29/2018	0.0	0.0	16.8	17.4	185.6	187.2	1.4	1.4	0.0	0.0	185.6	187.2
1/30/2018	0.0	0.0	16.8	17.1	185.3	186.3	1.1	1.2	0.0	0.0	185.3	186.3
1/31/2018	0.0	0.0	16.9	17.1	185.4	186.9	1.3	1.3	0.0	0.0	185.4	186.9

## Circle Chart Index

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

### Chart Recorder #1

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

### Chart Recorder #2

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

### Chart Recorder #3

Channel #1

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

Channel #2

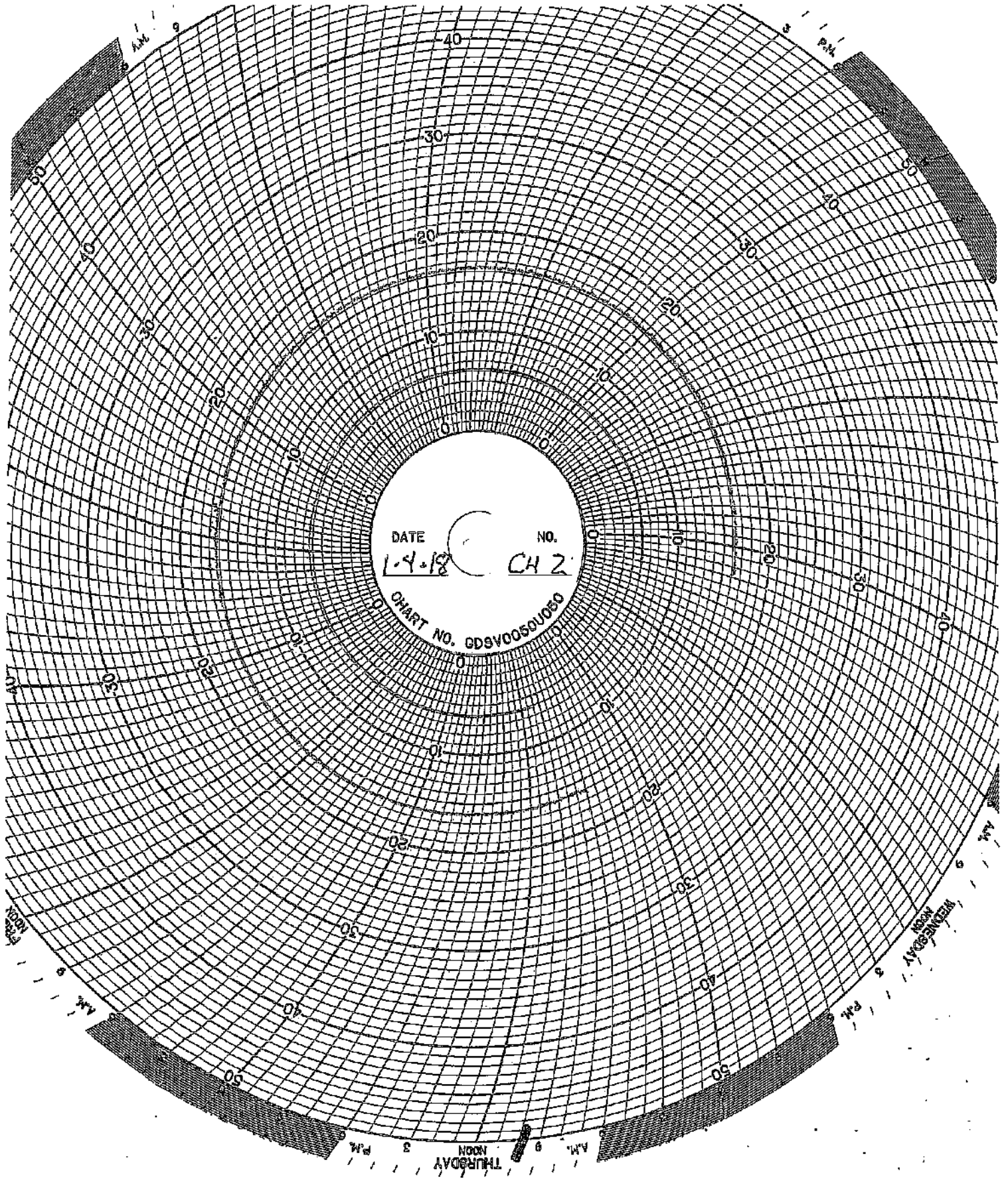
**Red Pen** – Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

Channel #4

**Black Pen** – Temperature (chart value x 0)

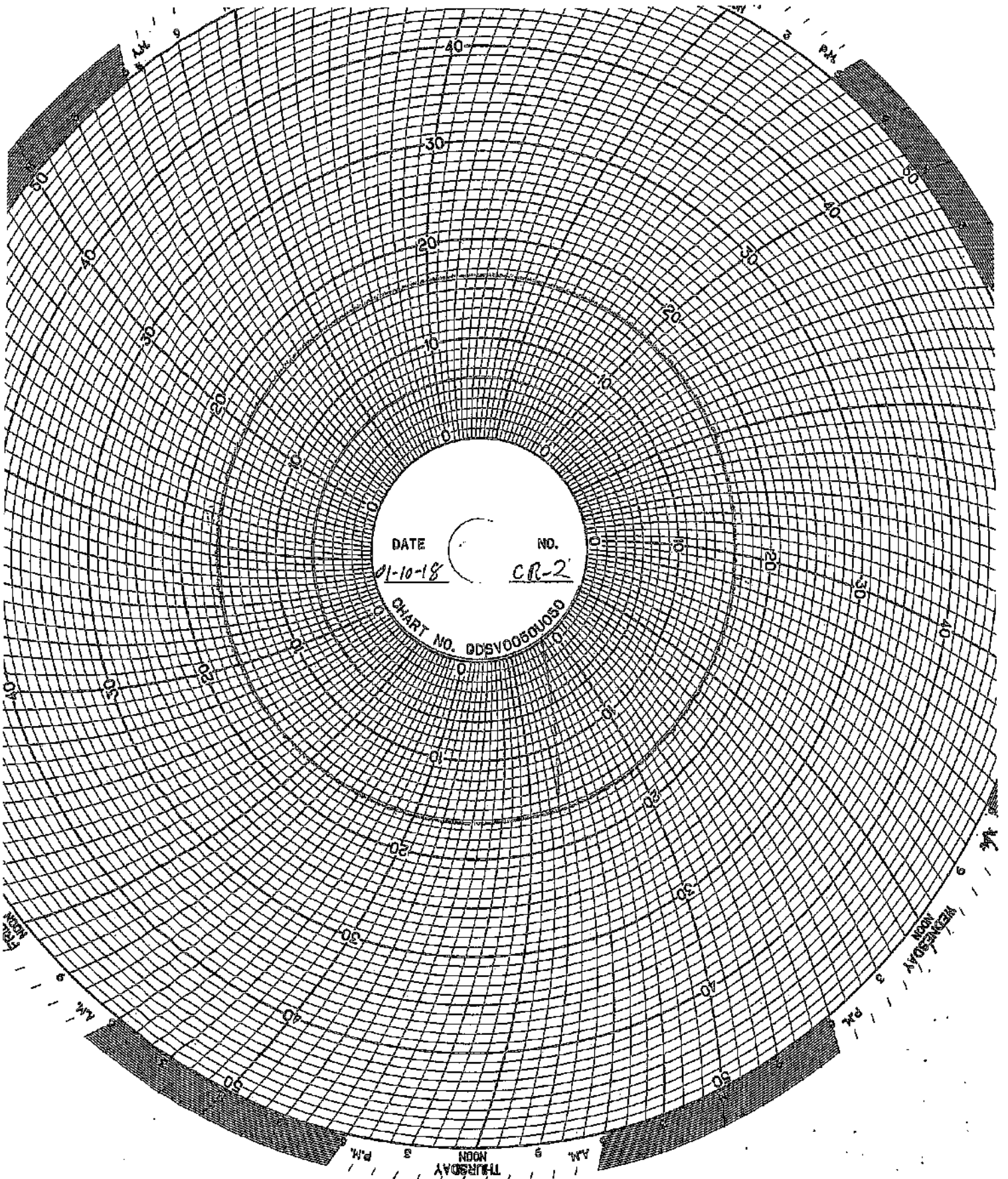


DATE 1-4-18 NO. CH 2

CHART NO. GDSV0050U030

THURSDAY 9 AM  
NOON 12  
3 PM

WEDNESDAY 9 AM  
NOON 12  
3 PM



DATE

NO.

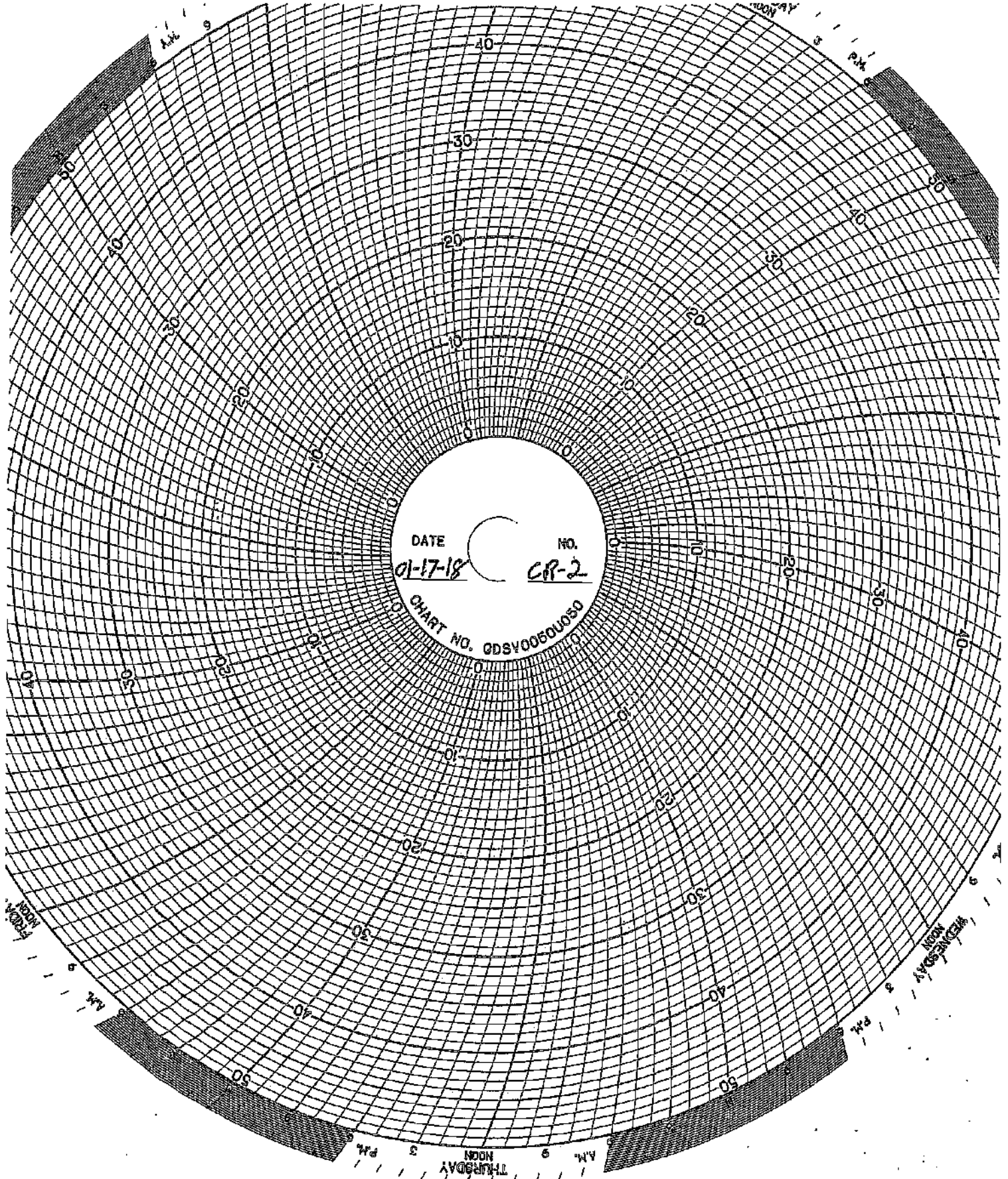
01-10-18

CR-2

CHART NO. 08SV0050U050

THURSDAY  
NOON  
AM 9  
PM 3

WEDNESDAY  
NOON  
AM 9  
PM 3



DATE

01-17-18

NO.

CR-2

CHART NO.

QDSV0050U050

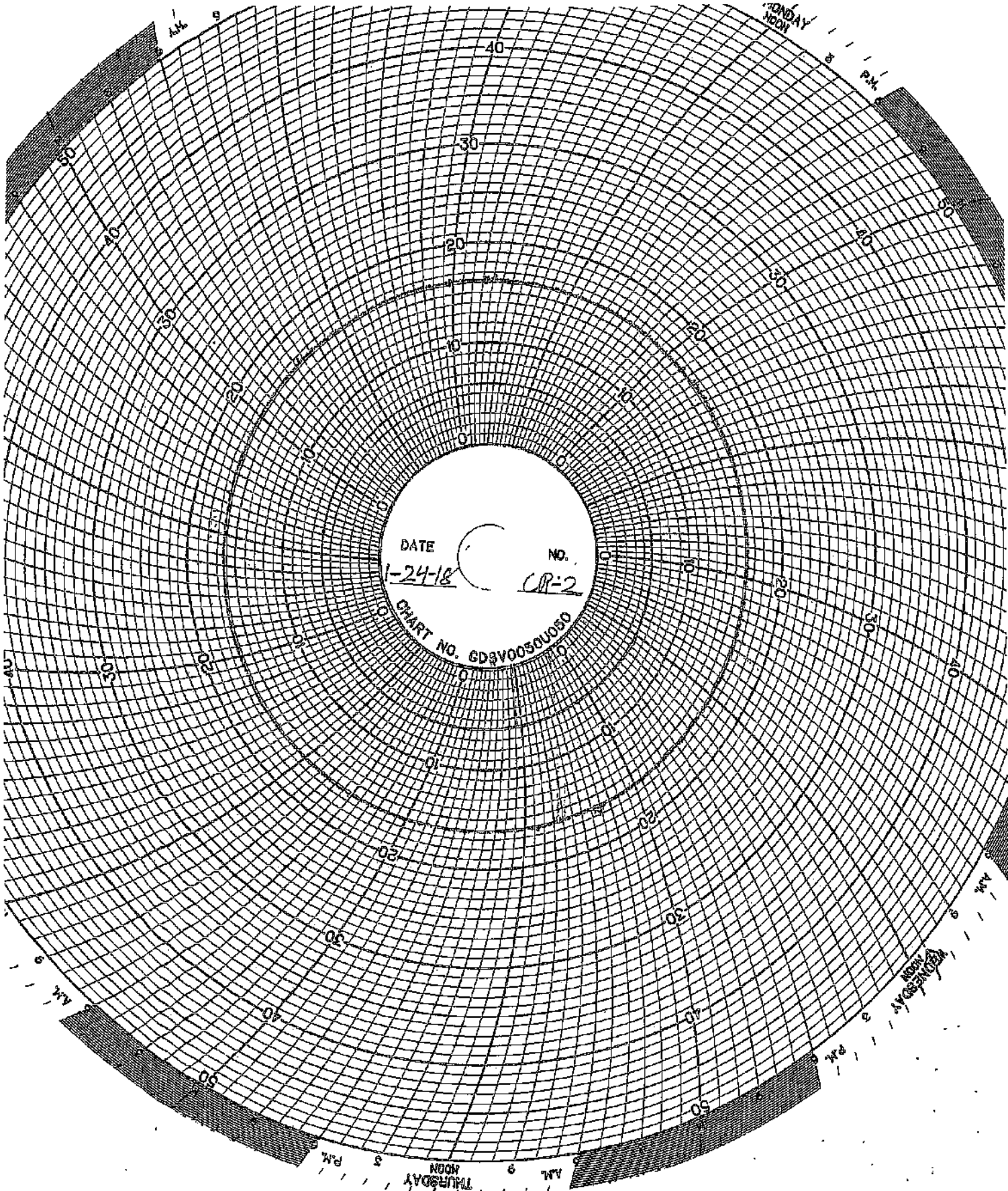
FRIDAY  
NOON  
5  
A.M.

WEDNESDAY  
NOON  
5  
P.M.

THURSDAY  
NOON  
5  
A.M.

THURSDAY  
NOON  
5  
P.M.





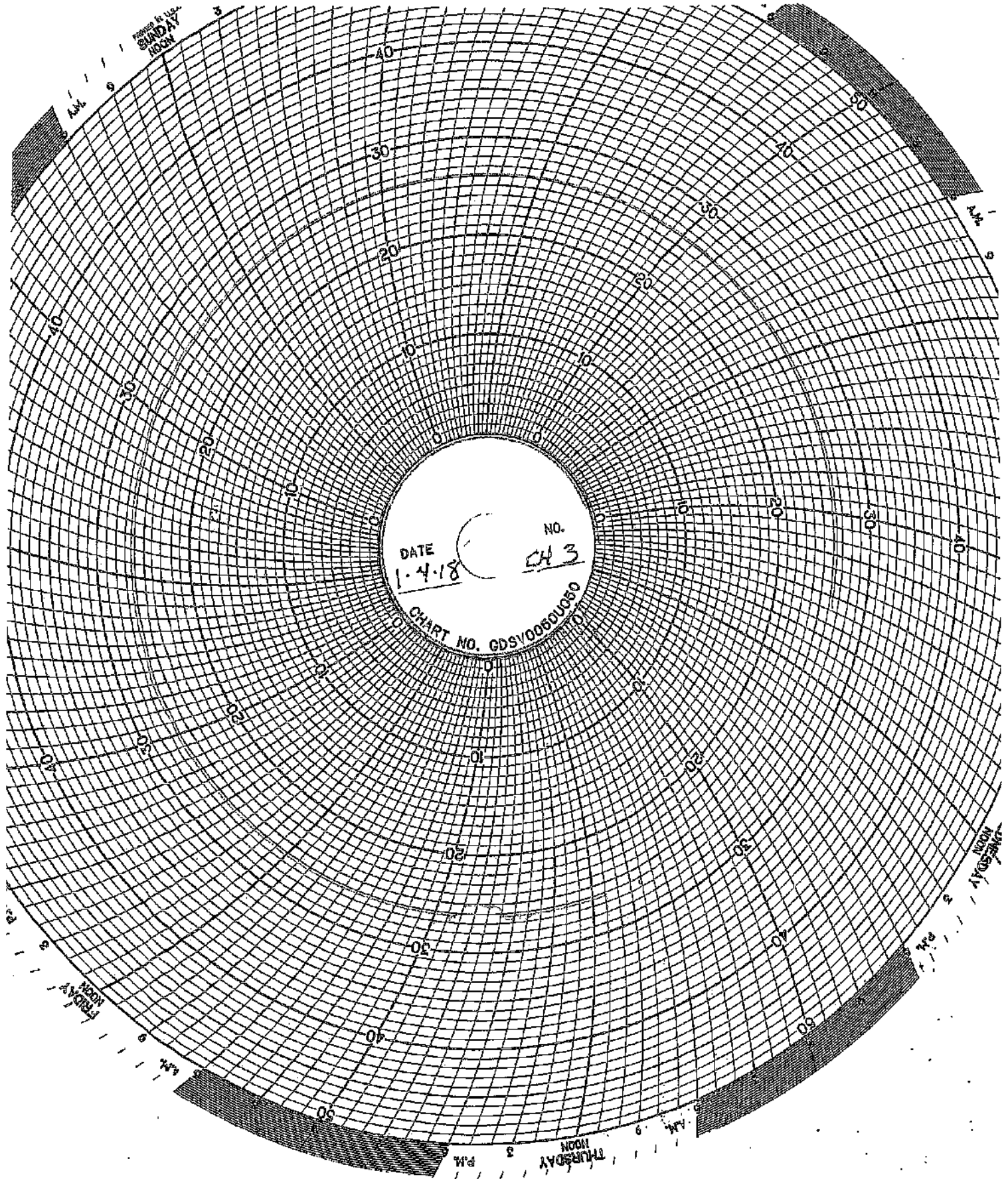
DATE 1-24-18  
NO. CR-2  
CHART NO. 6D3V0050U050

THURSDAY  
NOON  
P.M.

FRIDAY  
NOON  
P.M.

FRIDAY  
NOON  
P.M.

Printed in U.S.A.  
SUNDAY  
MOON



DATE  
1-4-18

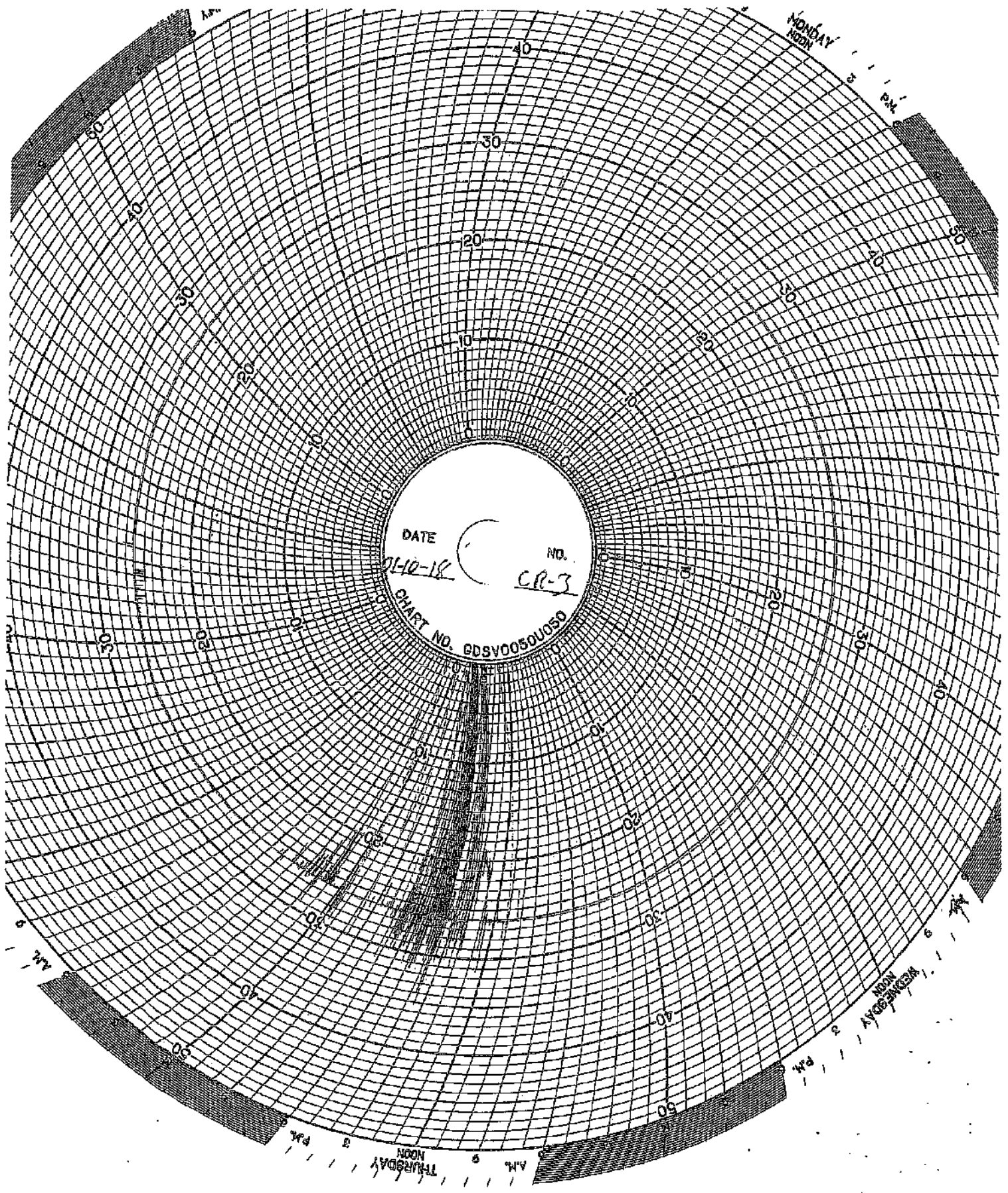
NO.  
CH 3

CHART NO. GDSV00660080

FRIDAY  
MOON

THURSDAY  
MOON

WEDNESDAY  
MOON



DATE 01-10-18  
NO. CR-3  
CHART NO. EDSV00S0U050

MONDAY  
NOON

MONDAY  
NOON

THURSDAY  
NOON

A.M.

P.M.

P.M.

P.M.

A.M.

P.M.

P.M.

P.M.

P.M.

P.M.

P.M.

P.M.

P.M.

P.M.

P.M.

40

30

20

10

0

10

20

30

40

50

60

70

80

90

10

20

30

40

50

60

70

80

90

100

110

120

10

20

30

40

50

60

70

80

90

100

110

10

20

30

40

50

60

70

80

90

100

110

10

20

30

40

50

60

70

80

90

100

110

10

20

30

40

50

60

70

80

90

100

110

10

20

30

40

50

60

70

80

90

100

110

10

20

30

40

50

60

70

80

90

100

110

10

20

30

40

50

60

70

80

90

100

110

10

20

30

40

50

60

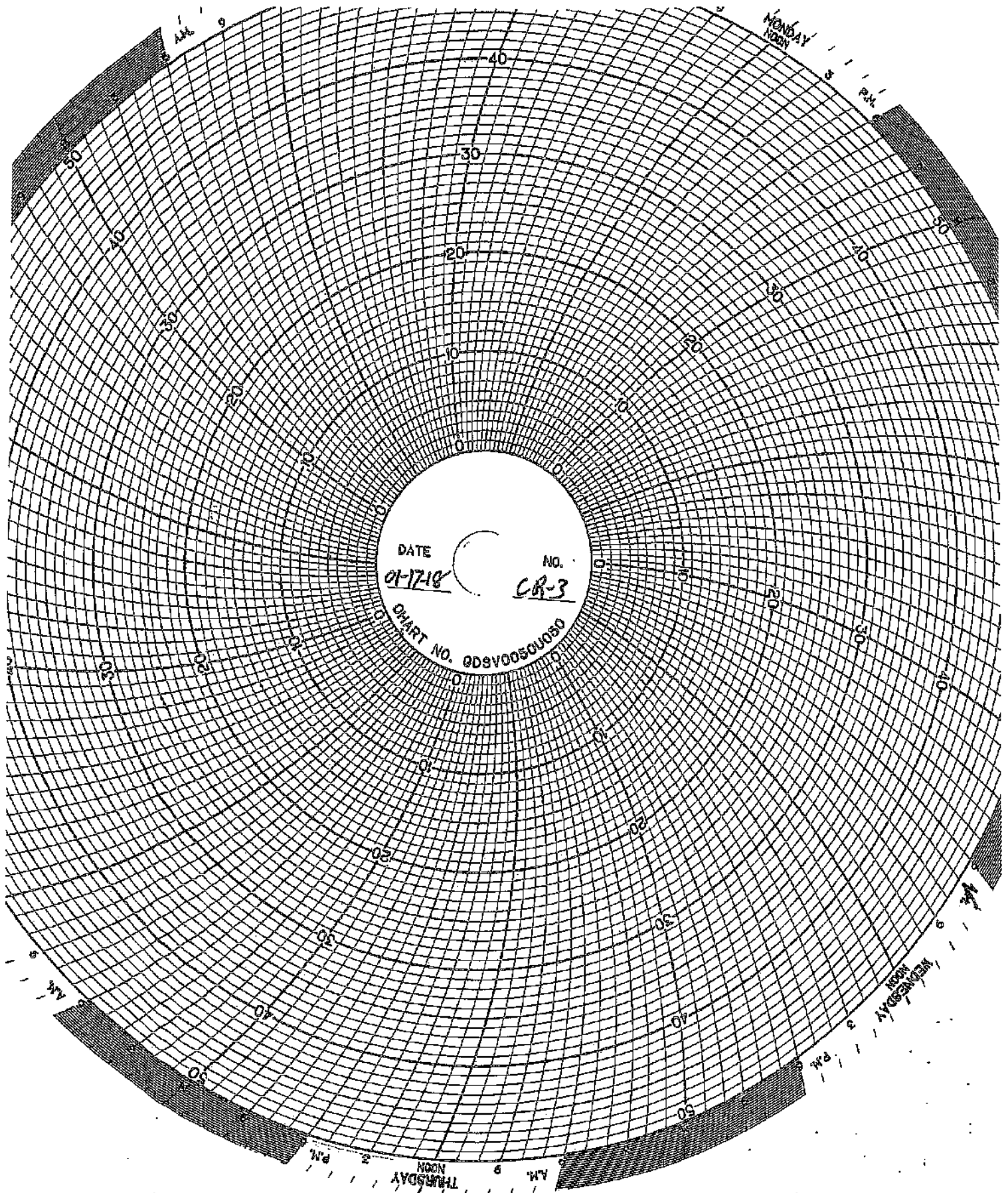
70

80

90

100

110



MONDAY  
NOON

MONDAY  
NOON

WEDNESDAY  
NOON

THURSDAY  
NOON

A.M.

P.M.

P.M.

P.M.

P.M.

50

40

30

20

10

0

10

20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

50

40

30

20

10

0

10

20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

50

40

30

20

10

0

10

20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

50

40

30

20

10

0

10

20

30

40

50

60

70

80

90

100

110

120

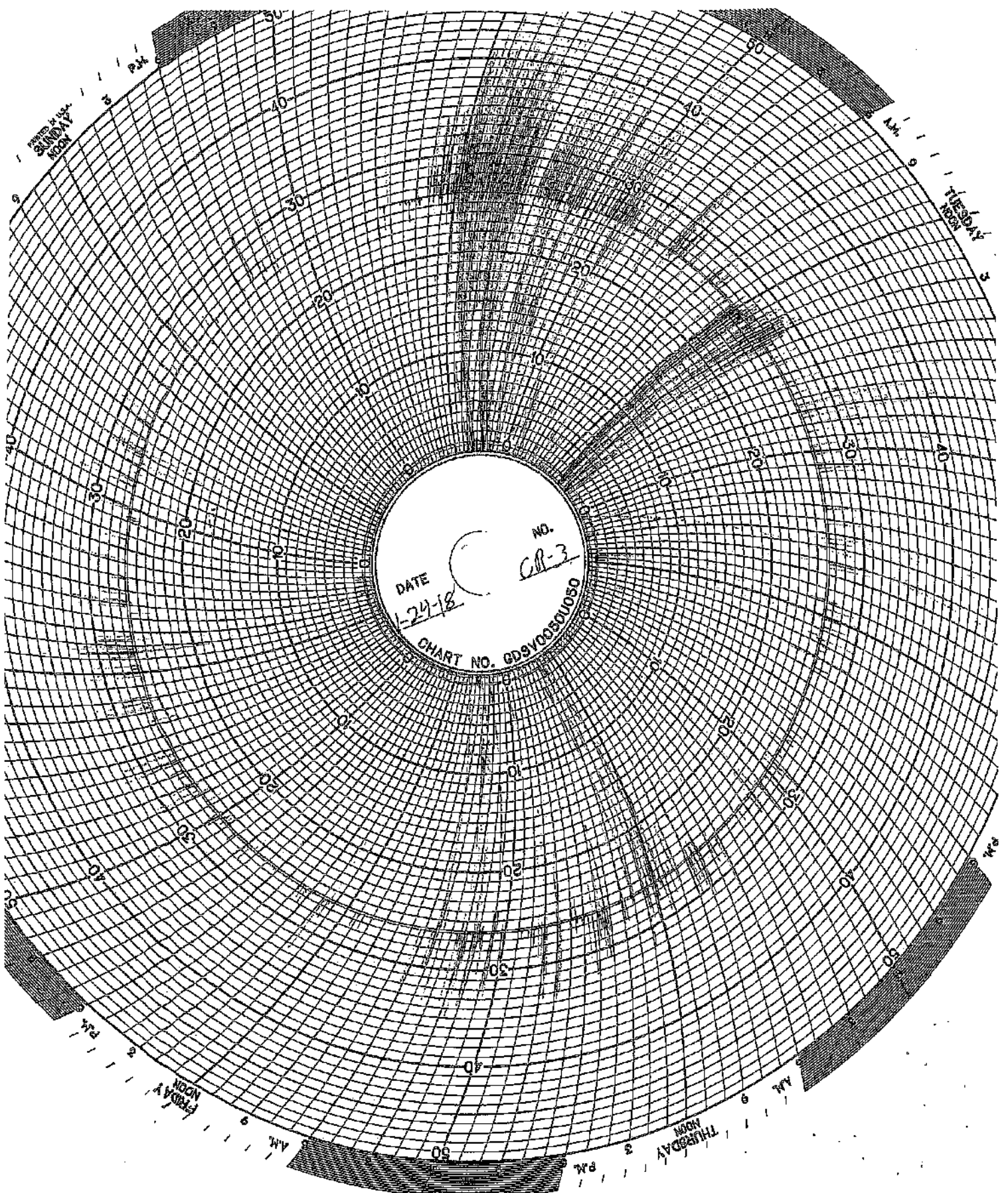
130

140

150

160

170



DATE 1-24-18  
NO. CR-3  
CHART NO. GDSV0050050

SUNDAY  
P.M.

MONDAY  
A.M.

THURSDAY  
P.M.

FRIDAY  
A.M.

## **MAINTENANCE LOG**

# UIC Monthly Maintenance Log

1/16/2018	Well 1	Replaced high pressure hose between piping and wellhead
-----------	--------	---

## **CORROSION MONITORING**



## **CORROSION MONITORING COUPONS VISUAL DESCRIPTION**

**January 29, 2018**

### **Fiberglass Coupon**

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

### **Hastelloy Coupon**

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

### **Stainless Steel Coupon**

**The coupon had experienced substantial corrosion since last month. The coupon is seriously pitted and corroded so it was replaced with a new coupon and a new initial weight.**

**CORROSION MONITORING PLAN  
COUPON SUMMARY**

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Redbox)	
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 g	7.196 g	
7/11/2014	13.323 g	10.304 g	7.196 g	
8/12/2014	13.328 g	10.045 g	7.182 g	
9/17/2014	13.321 g	9.997 g	7.090 g	
10/30/2014	13.321 g	9.387 g	7.075 g	
11/21/2014	13.320 g	9.386 g	7.069 g	
12/19/2014	13.321 g	9.315 g	7.084 g	
1/12/2015	13.321 g	9.289 g	7.063 g	New hastelloy coupon
2/23/2015	13.339 g	9.286 g	7.005 g	
3/31/2015	13.339 g	9.286 g	7.005 g	
4/27/2015	13.335 g	9.130 g	6.852 g	
5/21/2015	13.336 g	9.124 g	6.809 g	
6/12/2015	13.334 g	9.126 g	6.819 g	
7/27/2015	13.337 g	9.127 g	6.818 g	
8/26/2015	13.337 g	9.022 g	6.780 g	
9/21/2015	13.336 g	8.987 g	6.792 g	
10/19/2015	13.335 g	8.985 g	6.797 g	
11/16/2015	13.334 g	8.982 g	6.788 g	
12/17/2015	13.334 g	8.933 g	6.791 g	
1/29/2016	13.334 g	8.931 g	6.788 g	New stainless steel coupon
2/16/2016	13.332 g	8.799 g	6.757 g	
3/31/2016	13.339 g	9.286 g	7.005 g	
4/22/2016	13.333 g	8.590 g	6.744 g	
5/31/2016	13.334 g	6.084 g	6.784 g	
6/30/2016	13.328 g	10.942 g	6.793 g	
8/3/2016	13.326 g	10.529 g	6.743 g	
8/29/2016	13.325 g	10.020 g	6.723 g	
10/27/2016	13.325 g	8.765 g	6.708 g	
11/29/2016	13.327 g	8.571 g	6.740 g	
12/12/2016	13.323 g	8.223 g	6.717 g	
1/3/2017	13.325 g	8.059 g	6.712 g	
2/28/2017	13.324 g	7.634 g	6.727 g	New Fiberglass coupon
3/24/2017	13.325 g	7.370 g	6.732 g	
4/28/2017	13.325 g	6.736 g	6.736 g	
5/11/2017	13.323 g	7.352 g	6.689 g	
6/12/2017	13.323 g	7.357 g	6.689 g	
7/5/2017	13.323 g	7.355 g	6.689 g	
8/30/2017	13.324 g	7.353 g	18.105 g	
9/28/2017	13.325 g	7.352 g	18.060 g	
10/11/2017	13.324 g	7.350 g	18.038 g	
11/16/2017	13.325 g	7.363 g	18.047 g	
12/12/2017	13.326 g	7.308 g	18.307 g	

**CORROSION MONITORING PLAN  
COUPON SUMMARY**

Date	Hastelloy	Stainless Steel	Fiberglass	New stainless steel coupon
1/29/2018	13.326 g	10.930 g	18.027 g	

## 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.

# GHSQUIERE PLASTIC TESTING, INC.

20480 HARPER AVENUE  
HARPER WOODS, MI 48225  
PHONE (313) 886-3535  
FAX (313) 886-7771

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:

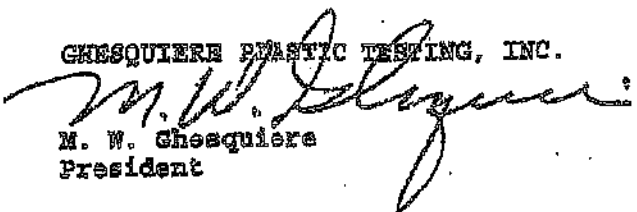
The following determination was made based upon the above test:

### BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHSQUIERE PLASTIC TESTING, INC.

  
M. W. Ghesquiere  
President

MWG/kni

Our letters and reports are for the exclusive use of the client to whom they are addressed, and shall not be reproduced except in full without our written approval. Our letters and reports apply only to the sample tested and are not necessarily indicative of the quality of apparently identical or similar products. The letters and reports are the property of Ghesquiere Plastic Testing, Inc., and are not to be used under any circumstances in advertising to the general public. Samples, extra and related test materials will be destroyed 30 days after the date of the final report unless the client indicates otherwise in writing.

TOTAL 1 PAGES

# GHSQUIERE PLASTIC TESTING, INC.

20460 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.

GHSQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere  
President

MWG/dm

Our letters and reports are for the exclusive use of the client to whom they are addressed, and shall not be reproduced except in full without our written approval. Our letters and reports apply only to the sample tested and are not necessarily indicative of the quality of apparently identical or similar products. The letters and reports and the name of Ghesquiere Plastic Testing, Inc., are not to be used under any circumstances in advertising to the general public. Samples, extra and related test materials will be destroyed 90 days after the date of the final report unless the client indicates otherwise in writing.

TOTAL 1 PAGES

# Ghesquiere Plastic Testing, Inc.

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

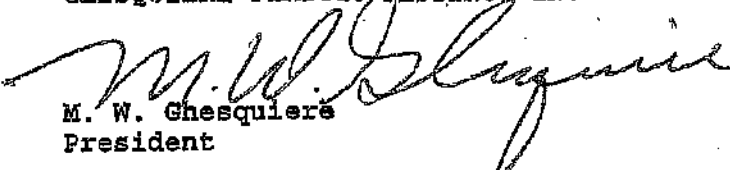
The following determination was made based upon the above test:

### 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



October 2, 2014

**TEST REPORT**

**PN 118325**

*PO Attn: John Frost*

**PLASTICS TESTING DEPARTMENT**

Prepared For:

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

Prepared By:

*Missisa Martin*  
Sr. Project Technician

Approved By:

*Jim Drummond*  
Physical & Plastics Testing, Manager



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

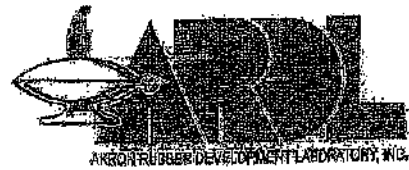


Letters and reports are for the exclusive use of the clients to whom they are addressed and shall not be reproduced, except in full, without the written permission of Akron Rubber Development Laboratory, Inc. (ARDL). The information contained herein applies to the specific material, product or subject tested or analyzed. Its validity of any kind is herein excluded or implied. The liability of ARDL, Inc. shall be limited to the amount of consideration paid for services. ARDL, Inc. is ISO 17025 accredited by AZLA for the test methods listed on its website page.

AKRON RUBBER DEVELOPMENT LABORATORY, INC.

2887 Gilchrist Rd. | Akron, Ohio 44305 | answers@ardl.com  
Toll Free (800) 830-ARDL | Worldwide (330) 794-8600 | Fax (330) 794-8610





**Testing. Development. Problem Solving.**

October 2, 2014

John Frost  
Environmental Geo-Technologies, LLC

Page 2 of 2  
PN118325

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

**RECEIVED:** One small section identified as: Fiberglass Coupon.

**BARCOL HARDNESS ASTM D 2583-13a**

**Results**

Barcol Hardness, Instant

97

Prepared By:

  
Melissa Martin  
Sr. Project Technician

Approved By:

  
Scott W. Yates  
Plastics Testing Assistant Manager

ARL Akron Rubber Development Laboratory, Inc.

2687 Gilchrist Rd. | Akron, Ohio 44305 | answers@ardl.com  
Toll Free: (800) 830-ARDL | Worldwide: (330) 794-6600 | Fax: (330) 794-6610



Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

**TEST REPORT**

**PN 125322**  
**PO 00154**

**PLASTICS TESTING DEPARTMENT**


Prepared For:

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

Prepared By:

  
Melissa Martin  
Sr. Project Technician

Approved By:

  
Jim Drummond, Sr.  
Physical & Plastic Testing, Manager



An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 256.02  
ISO 9001:2008 Registered

**ISO 9001:2008**  
Registered

Letters and reports are for the exclusive use of the clients to whom they are addressed and shall not be reproduced, except in full, without the written permission of Akron Rubber Development Laboratory, Inc. (ARDL). The information contained herein applies to the specific material, products or processes tested or evaluated. No warranty of any kind is herein construed or implied. The liability of ARDL, Inc. shall be limited to the amount of consideration paid for services. ARDL, Inc. is ISO 17025 accredited by A2LA for the test methods listed on the attached scope.

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



AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

John Frost  
Environmental Geo-Technologies, LLC

Page 2 of 2  
PN 125322

**SUBJECT:** Barcol Hardness on one material.

**RECEIVED:** One small section identified as; Fiberglass Coupon.

**BARCOL HARDNESS ASTM D 2583-13a**  
Instant Reading

Results

Barcol Hardness, Instant

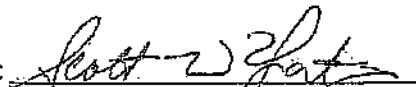
96

Prepared By:

  
Melissa Martin  
Sr. Project Technician

to

Approved By:

  
Scott W. Yates  
Plastics Testing Assistant Manager



AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

December 12, 2016

**TEST REPORT**

**PN 132662**

PO

**PLASTICS TESTING DEPARTMENT**

Prepared For:

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

Prepared By:

**Melissa Martin**  
Senior Project Technician

Rev 041 918

Approved By:

**Jim Dammone**  
Physical Testing, Manager



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



Letters and reports are for the exclusive use of the clients to whom they are addressed and shall not be reproduced, except in full, without the written permission of Akron Rubber Development Laboratory, Inc. (ARDL). The information contained herein applies to the specific material, products or processes tested or evaluated. No warranty of any kind is herein contained or implied. The liability of ARDL, Inc. shall be limited to the amount of consideration paid for services. ARDL, Inc. is ISO 17025 accredited by AZLA for the test methods listed on the referenced certificates.



December 12, 2016

John Frost  
Environmental Geo-Technologies, LLC

Page 2 of 2  
PN 132662

**SUBJECT:** Barcol Hardness on one (1) material.


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

**BARCOL HARDNESS ASTM D 2583-13a**  
Instant Reading

RESULTS

Barcol Hardness, Instant 96

Prepared By:



\_\_\_\_\_  
Melissa Martin  
Senior Project Technician

wk

Approved By:



\_\_\_\_\_  
Scott Yates  
Plastics Testing, Assistant Manager

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



Progress Through Innovation, Technology and Customer Satisfaction

December 13, 2017

**TEST REPORT**


**PN 139140**

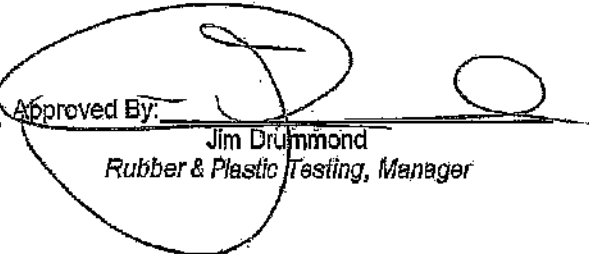
PO#

**PLASTIC TESTING DEPARTMENT**

Prepared For:

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

Prepared By:   
**Melissa Martin**  
Sr Project Technician

Approved By:   
**Jim Drummond**  
Rubber & Plastic Testing, Manager

Rev 041918



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



Lab's test reports are for the exclusive use of the clients to whom they are addressed and shall not be reproduced, except in full, without the written permission of Akron Rubber Development Laboratory, Inc. (ARDL). The information contained herein applies to the specific material, products or processes tested or evaluated. No warranty of any kind is herein contained or implied. The liability of ARDL, Inc. shall be limited to the amount of consideration paid for services. ARDL, Inc. is ISO 17025 accredited by A2LA for the test methods listed on the referenced certificates.



December 13, 2017

John Frost  
Environmental Geo-Technologies, LLC

Page 2 of 2  
PN 130140

**SUBJECT:** Barcol Hardness on one material.

**RECEIVED:** One small section identified as; Fiberglass Coupon.

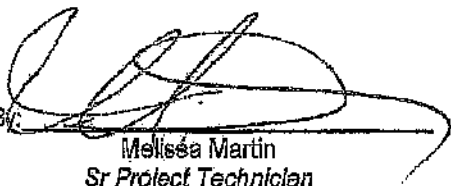
**BARCOL HARDNESS ASTM D 2583-13a**  
Instant Reading

Results

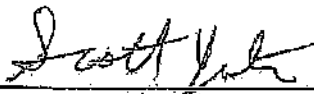
Barcol Hardness, Instant

96

Prepared By:

  
Melissa Martin  
Sr Project Technician

Approved By:

  
Scott Yates  
Plastics Testing, Assistant Manager

sc

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

**INJECTION  
FINGERPRINTS**



FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10:00AM 1-31-18
Receiving ID#	101311801
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	Jim J.

COPY

ANALYSIS INFORMATION			
Compatible? (RT# )	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	7140°F	Magnesium	
pH (S.U.)	2.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	1990
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	60°F		
Conductivity	52µS		
% Solids	19%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	Pm		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10:00 AM 01-30-18
Receiving ID#	201301801
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	AS
Sampled by	TE

COPY

ANALYSIS INFORMATION		TEST RESULTS	
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	2.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.12	TDS	2890
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	61°F		
Conductivity	48 mS		
% Solids	28%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	21%		
Radiation Screen (as needed)			
Lab Signature	Pm		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1-23-18 8:00 AM
Receiving ID#	F01231801
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval#	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	<i>[Signature]</i>

**COPY**

LAB INFORMATION		CHEMICALS	
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	2140°F	Magnesium	
pH (S.U.)	1.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.12	TDS	16%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	1mS		
% Solids	16%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	21%		
Radiation Screen (as needed)			
Lab Signature	<i>[Signature]</i>		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:45AM 30171801
Receiving ID#	01-17-18
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	TE

COPY

LAB TEST RESULTS		ANALYSIS	
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140°F	Magnesium	
pH (S.U.)	1.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	1070
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	33mS		
% Solids	10%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	41%		
Radiation Screen (as needed)			
Lab Signature	Pa		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12:30am 01/15/18
Receiving ID#	10161801
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	PS
Sampled by	AW

COPY

LAB INFORMATION		TESTS	
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140°F	Magnesium	
pH (S.U.)	1.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	11%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	61°F		
Conductivity	54µS		
% Solids	11%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	11%		
Radiation Screen (as needed)			
Lab Signature	Pa		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	01/15/18
Receiving ID#	I0151802
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	DB

**COPY**

LAB INFORMATION		Other Site ID	
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	2140°F	Magnesium	
pH (S.U.)	6.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	1590
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	16mS		
% Solids	15%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	21%		
Radiation Screen (as needed)			
Lab Signature	Pa		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1:00 am 01 15 18
Receiving ID#	101151801
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	AW

COPY

ADDITIONAL INFORMATION		© E. P. Pappas	
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	2.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	16%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	79 μS		
% Solids	17%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	1%		
Radiation Screen (as needed)			
Lab Signature	Pia		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	Time 1:00 AM 01-10-18
Receiving ID#	101001801
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	TE

**COPY**

FINGERPRINT INFORMATION		Other Elements	
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	3.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.00	TDS	890
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	14mS		
% Solids	99%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	100		
Radiation Screen (as needed)			
Lab Signature	Piri		



FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9:30AM 01-9-18
Receiving ID#	F191801
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by:	Jan 7

COPY

LAB INFORMATION			
Compatibility	Other Parameters	Other Parameters	Other Parameters
Compatible? (RT# )	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140°F	Magnesium	
pH (S.U.)	1.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	1490
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	80mS		
% Solids	14%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	21%		
Radiation Screen (as needed)			
Lab Signature	Pa		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

TECHNICAL INFORMATION	
Date	101081801 1-8-18
Receiving ID#	2:56 pm
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	BS

**COPY**

LABORATORY INFORMATION		Other Bin #	
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	1.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	1490
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	31 mS		
% Solids	14%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	14%		
Radiation Screen (as needed)			
Lab Signature	Ph		

**WASTE STREAMS  
CHARACTERIZATIONS**



WASTE INFORMATION

Name of Waste/Common Chemical Name: Nitric Acid Strapping  
 Process Generating Waste (Please be specific. Incomplete information may delay the approval process):  
Strapping of Nichel ore stainless steel with acid plates  
Ag Kcs

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be:  Non-Hazardous Liquid or Sludge Waste  Hazardous Waste  
 2. Regulated by TSCA?  Yes  No (POB or ACP)  
 3. List ALL Applicable Waste Codes: U001

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other: <u>Green</u>	Apparent Solids: <input checked="" type="checkbox"/> 0-1% <input type="checkbox"/> 1-5% <input type="checkbox"/> 5-10% <input type="checkbox"/> >10%	Layers: <input type="checkbox"/> Multi-layered <input type="checkbox"/> Bi-layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> 1.00-1.10 <input type="checkbox"/> 1.10-1.20 <input type="checkbox"/> 1.20-1.30 <input type="checkbox"/> 1.30-1.40 <input type="checkbox"/> 1.40-1.50 <input type="checkbox"/> 1.50-1.60 <input type="checkbox"/> 1.60-1.70 <input type="checkbox"/> 1.70-1.80 <input type="checkbox"/> 1.80-1.90 <input type="checkbox"/> 1.90-2.00	Consistency: <input type="checkbox"/> Solid <input type="checkbox"/> Slurry <input type="checkbox"/> Paste <input type="checkbox"/> Liquid
---	--	---	---	--

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  Solid 0-100  100-200

VOC CONCENTRATION: N/A (If not stated, completed)

TOTAL COMPOSITION OF WASTE: WASTE IS 25% TO 75% OF GREATER THAN 100% (USE ICA CODES IN TREATMENT)

CONSTITUENT	MAX	MIN	CONCENT
<u>HN01</u>	<u>50</u>	<u>70</u>	
<u>HN02</u>	<u>30</u>	<u>50</u>	

Metal indicate if this waste contains any of the following metals. If none are known, leave blank.  Lab Analyze  Generator Knowledge

Concentration	Not		Present		Arenic (As)	Barium (Ba)	Bismuth (Bi)	Cadmium (Cd)	Chromium (Cr)	Lead (Pb)	Mercury (Hg)	Selenium (Se)	Silver (Ag)
	Concentration	Present	Concentration	Present									
As	<input type="checkbox"/>	ppm	<input type="checkbox"/>	ppm	100	100	100	100	100	100	100	100	100
Ba	<input type="checkbox"/>	ppm	<input type="checkbox"/>	ppm	100	100	100	100	100	100	100	100	100
Bi	<input type="checkbox"/>	ppm	<input type="checkbox"/>	ppm	100	100	100	100	100	100	100	100	100
Cd	<input type="checkbox"/>	ppm	<input type="checkbox"/>	ppm	100	100	100	100	100	100	100	100	100
Cr	<input type="checkbox"/>	ppm	<input type="checkbox"/>	ppm	100	100	100	100	100	100	100	100	100
Pb	<input type="checkbox"/>	ppm	<input type="checkbox"/>	ppm	100	100	100	100	100	100	100	100	100
Hg	<input type="checkbox"/>	ppm	<input type="checkbox"/>	ppm	100	100	100	100	100	100	100	100	100
Se	<input type="checkbox"/>	ppm	<input type="checkbox"/>	ppm	100	100	100	100	100	100	100	100	100
Ag	<input type="checkbox"/>	ppm	<input type="checkbox"/>	ppm	100	100	100	100	100	100	100	100	100

TCLP Organics D012 + D044 and/or regularly (initial) Present  No Present

IS THIS ANY OF THE FOLLOWING?

- Radioactive  Water Reactive  Oxidizer  Spontaneously Combustible  Inert  Non-Explosive
- NIOSH Human Positive Carcinogen  NIOSH P-Miscellaneous (Genotoxic)  Inert  Non-Apply

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49 CFR 172.101 & 173.500)?  Yes  No
- Reportable Quantity (RQ) in pounds: \_\_\_\_\_
- DOT Shipping Name: Corrosive Liquid Hazard Class: 8 UN Number: 1791
- Method of Shipment:  Bulk Tank Vehicle  Rail Car  Barge  Air
- Number of Units to Ship Now: 1 Anticipated Volume (Gallons): 5  One Time
- Special Handling Requirements include PPE: \_\_\_\_\_

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted here and all attached documents. Based on my inquiry and personal knowledge of this activity, I am responsible for providing and certifying the information. The information contained herein is true, accurate and complete to the best of my knowledge and belief. No information has been omitted so to make the information misleading or understated. I, the undersigned, represent and warrant that in the handling and processing of the waste material described herein, I will comply with all applicable environmental laws, regulations and standards. I will ensure that the waste material is properly labeled and packaged for transport.

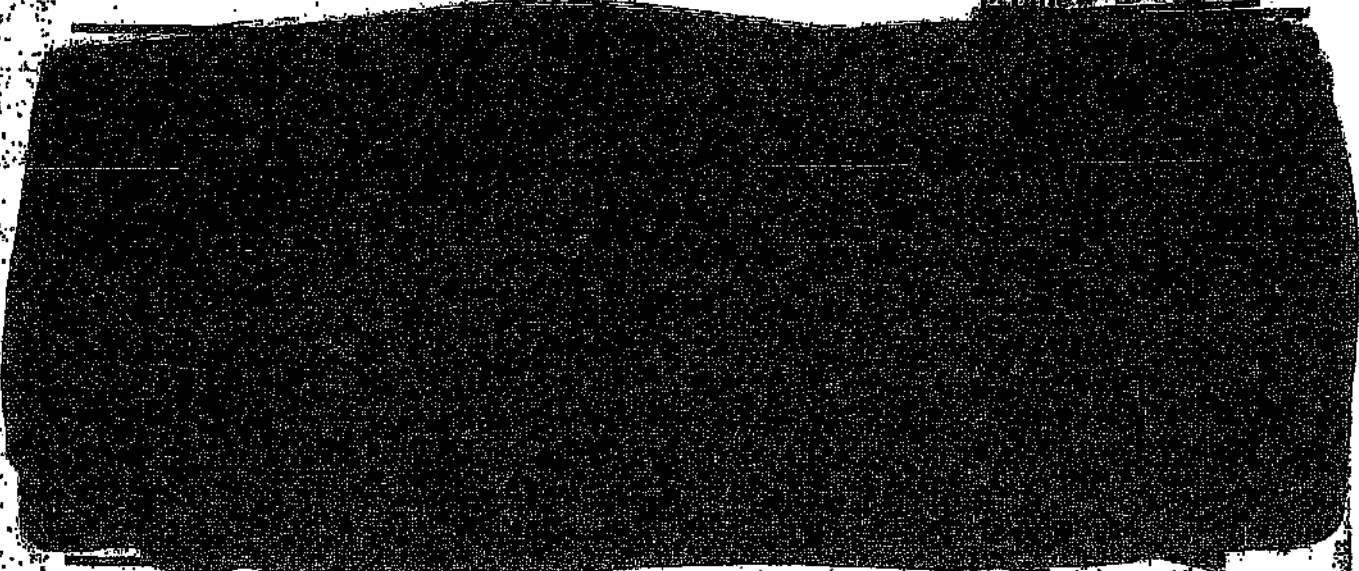
GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: Please use the appropriate container to collect a representative sample of the waste described in the above referenced Generator's Waste Profile. Use an appropriate container to collect a representative sample of any obtained using any of the applicable sampling methods described in the above referenced Generator's Waste Profile. If you have problems obtaining a representative sample, you may wish to contact your Environmental Compliance representative.

**ENVIRONMENTAL GEO-TECHNOLOGIES, LLC**

23470 Citrus Dr, Romulus, MI 48174. Telephone 734 948 1000. Fax 734 948 1002

**Generator Waste Profile**

Profile # **01265**



**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

Waste Water - Effluent

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

Cleaning Aluminum parts with Nitric based dex and Sodium hydroxide.

**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: 0291

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color</b> <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Amber</u>	<b>Suspended Solids</b> <input type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input type="checkbox"/> 1-3% <input type="checkbox"/> >5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <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 0.03.18
--	--	---	---	-----------------------

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

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

VOC CONCENTRATION: \_\_\_\_\_ PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Water</u>	<u>80</u>	<u>95</u>			
<u>Sodium hydroxide</u>	<u>0</u>	<u>5</u>			
<u>Nitric based dex</u>	<u>0</u>	<u>5</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		Concentration		Concentration
PCB	<input checked="" type="checkbox"/>	ppm	Aromatic Amines	<input type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	5 ppm
Dioxins	<input type="checkbox"/>	ppm	Pesticides	<input type="checkbox"/>	ppm	Bertholite (Ba)	D005	<input checked="" type="checkbox"/>	<100 ppm
Cyanides Reactive	<input type="checkbox"/>	ppm	Regaricides	<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
- Corrosive
- Shock Sensitive
- Reactive (other)
- DOT Explosives
- NIOSH Human-Positive Carcinogens
- NESHAP Wastes (Benzene, etc.)
- Biologics
- 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: Non Regulated, Non Hazardous Liquid Hazard Class \_\_\_\_\_ UNNA \_\_\_\_\_
- PG \_\_\_\_\_ ERG \_\_\_\_\_ Hazardous Constituents for "n.o.s." \_\_\_\_\_
- Method of Shipment: W000  Bulk Tanker  Van truck  Rail Car  Drums  Totes
- Number of Units to Ship Now: 20000 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 so 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 shall be consistent with the results of the sample characterization.

**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.



Haviland Laboratory  
 1835 Turner NW  
 Grand Rapids, MI 49504  
 Order Entry: 800.827.2111  
 Fax: 616.331.8565

chemicals@havilandusa.com  
 www.havilandusa.com

No: 0178-17  
 Date: 11/30/17  
 1 of 1



Parameter & Units	Test Date	Tech	Limits	Results
Zinc, mg/l	12/11/17	JVW	0.58	0.06
Nickel, mg/l	12/11/17	JVW	0.14	< 0.06
Copper, mg/l	12/11/17	JVW	0.94	0.35
Lead, mg/l	12/11/17	JVW	0.20	< 0.08
Cadmium, mg/l	12/11/17	JVW	0.013	< 0.01
Chromium, mg/l	12/11/17	JVW	0.50	< 0.06
Silver, mg/l	12/11/17	JVW	0.02	< 0.02
Phosphorus (total), mg/l	12/11/17	JVW	16	0.10

Sample Type: Effluent

Date Collected: November 21, 2017

Time Collected: 12:46

Collected By: Brian Mitscat

Sample Location: Effluent Tank

User Permit Number:

Analyst

I certify the above results to be accurate and analyzed by EPA approved methods.

Title/Name: Chemist/James VanderWerp

Signature: *James VanderWerp*

Permittee

Title/Name:

Signature:

Notary Public-  
 Commission Expires





200 South Wagner  
Ann Arbor, Michigan  
Tel. 734/995-0885  
Michigan Laboratory  
Washtenaw Laboratory

# Inorganic Analysis Data Summary Sheet



## Sample Identification

Sample Date: 11/28/17  
Laboratory Receipt Date: 11/28/17  
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date
Hexavalent Chromium	EPA 7190A	mg/L	<0.01	0.01	11/28/17
Total Chromium	EPA 8010C	mg/L	<0.005	0.005	12/6/17
Total Suspended Solids	ARHA 2610	mg/L	16	10	12/6/17

### Comments

All methods reference USEPA unless otherwise noted.

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/2/18
Receiving ID#	Waste Water
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	

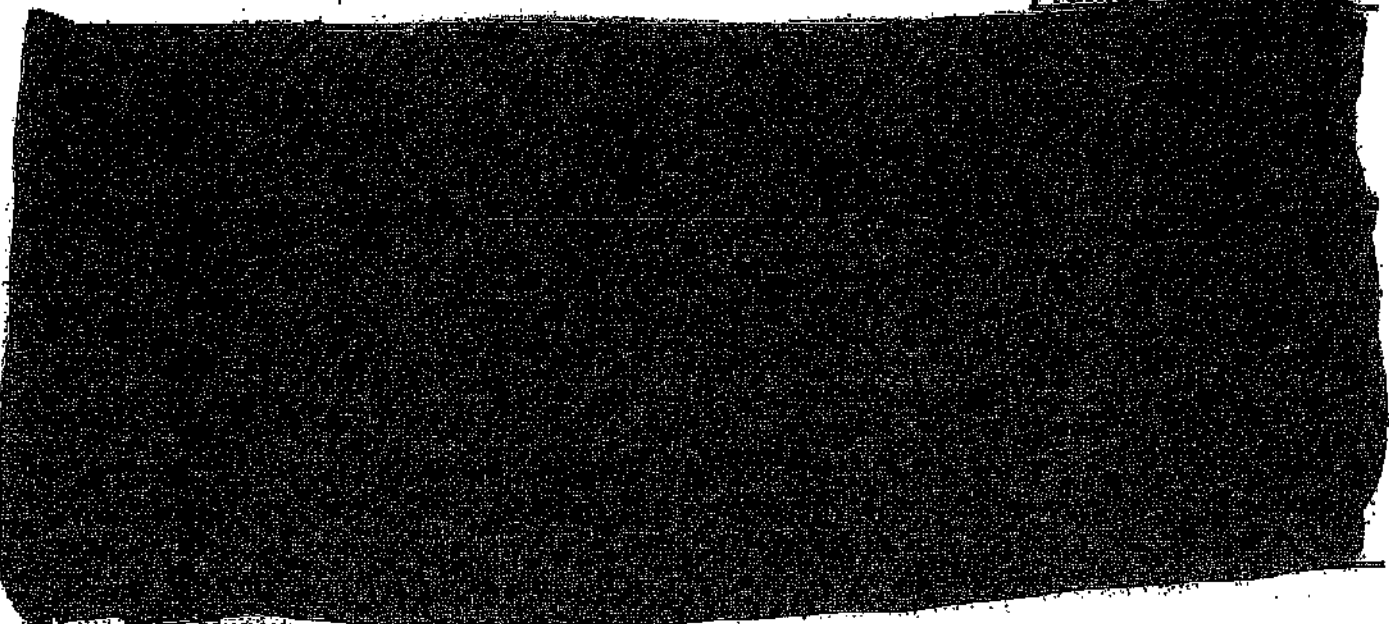
LAB INFORMATION		CHEMICAL ANALYSIS	
Compatible? (RT# )	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140°F	Magnesium	
pH (S.U.)	13.2	Sodium Chloride	
Cyanides? (mg/L)	0.30	Bicarbonate	
Sulfides? (ppm)	2.200	Carbonate	
Specific Gravity	1.01	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (NO)		
Temperature	65°F		
Conductivity	35 mS		
% Solids	6%		
Turbidity	Yes (NO)		
Color (visual)	colorless w/ orange settled solids		
TSS (%)	2% (vs. ble in jar)		
Radiation Screen (as needed)	negative		
Lab Signature	<i>[Signature]</i>		

**ENVIRONMENTAL GEO-TECHNOLOGIES, LLC**

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

**Generator Waste Profile**

Profile # 01266



**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

23A 1

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

Wine processing, plating etc. (see attached)

**USEPA / STATE WASTE IDENTIFICATION**

- 1. This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- 2. Regulated by TSCA?  Yes  No (PCBs, etc.)
- 3. List ALL Applicable Waste Codes: 029L

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	<b>Suspended Solids</b> <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> < 0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input checked="" type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other <u>1.00</u>	<i>acceptable</i> <u>01.09.18</u>
--	---	---	---	--------------------------------------

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

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

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Water</u>	<u>99</u>	<u>95</u>			%
<u>Solids</u>	<u>5</u>	<u>0</u>			%
<u>Sodium hydroxide</u>	<u>10</u>	<u>1</u>			%
<u>oil</u>	<u>2</u>	<u>0</u>			%

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

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

TCLP Organics D042 - D043 above regulatory limits: Present  Not Present

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

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

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

**SHIPPING INFORMATION**

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)?  Yes  No
2. Reportable Quantity (RQ) in pounds \_\_\_\_\_
3. DOT Shipping Name Waste non-RCRA regulated, non-DOT material Hazard Class \_\_\_\_\_ UNNA \_\_\_\_\_

PG \_\_\_\_\_ ERG \_\_\_\_\_ Hazardous Constituents for "h.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: Varies or  One Time
6. Special Handling Requirements including PPE: \_\_\_\_\_

**CERTIFICATION STATEMENT**

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

**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.

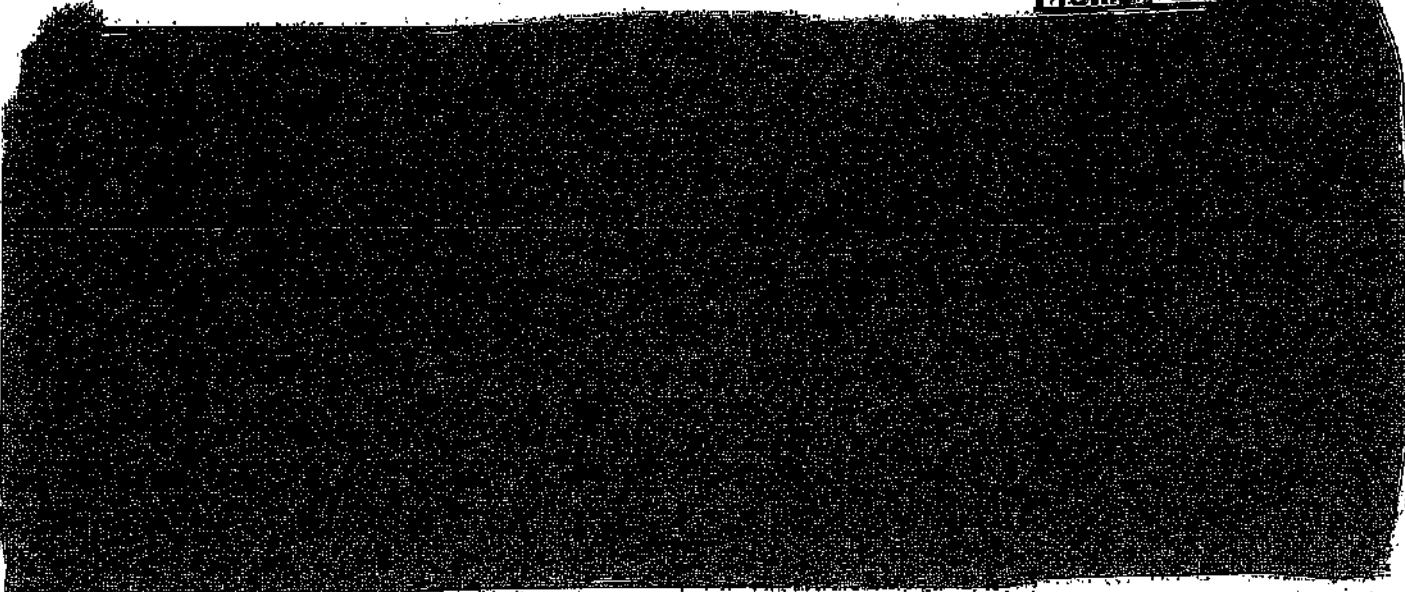
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	1/9/18
Receiving ID#	
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval#	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	PS
Sampled by	PS

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)	71400F	Magnesium	
pH (S.U.)	10.0	Sodium Chloride	
Cyanides? (mg/L)	250	Bicarbonate	
Sulfides? (ppm)	2200	Carbonate	
Specific Gravity	1.00	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	650F		
Conductivity	1ms		
% Solids	290		
Turbidity	Yes (No)		
Color (visual)	colorless		
TSS (%)	210%		
Radiation Screen (as needed)	negative		
Lab Signature	PS		



**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

2301 BACK

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

Waste Processing, Plating, etc. (see attached)

**USEPA / STATE WASTE IDENTIFICATION**

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

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	<b>Suspended Solids</b> <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other <u>1.10</u>		acceptable 01.09.18

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%)  
*(see Attached)*

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Water</u>	<u>98</u>	<u>70</u>			
<u>solids</u>	<u>15</u>	<u>1</u>			
<u>sodium hydroxide</u>	<u>15</u>	<u>1</u>			

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

<input type="checkbox"/> Lab Analysis	<input checked="" type="checkbox"/> Generator Knowledge	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> TOTAL				
	Not Present	Concentration	Not Present	Concentration			
PGE	<input checked="" type="checkbox"/>	ppm	Aromatic Amines	<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 - D043 above regulatory limits: Present  Not Present

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)?  Yes  No
2. Reportable Quantity (RQ) in pounds \_\_\_\_\_
3. DOT Shipping Name RQ, Waste Corrosive Liquid, Inorganic, 8, I, UN3266 Hazard Class 8 UN 3266
- PG I ERG 154 Hazardous Constituents for "h.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: VARIES or  One Time
6. Special Handling Requirements including PPE: \_\_\_\_\_

CERTIFICATION STATEMENT


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

**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.

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/9/18
Receiving ID#	
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
	
Transporter	
Time In	
Time out	
Received by	
Sampled by	

LAB INFORMATION		ANALYSIS METHODS		CITICORP	
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)	>1400F	Magnesium			
pH (S.U.)	13.0 (paper)	Sodium Chloride			
Cyanides? (mg/L)	130	Bicarbonate			
Sulfides? (ppm)	1200	Carbonate			
Specific Gravity	1.10	TDS			
Physical Description	liquid	Resistivity			
Stream Consistency	Yes No	Sulfate			
Oil in Sample	Yes No				
Temperature	65°F				
Conductivity	2 mS				
% Solids	12%				
Turbidity	Yes No				
Color (visual)	brown				
TSS (%)	21%				
Radiation Screen (as needed)	negative				
Lab Signature	P				

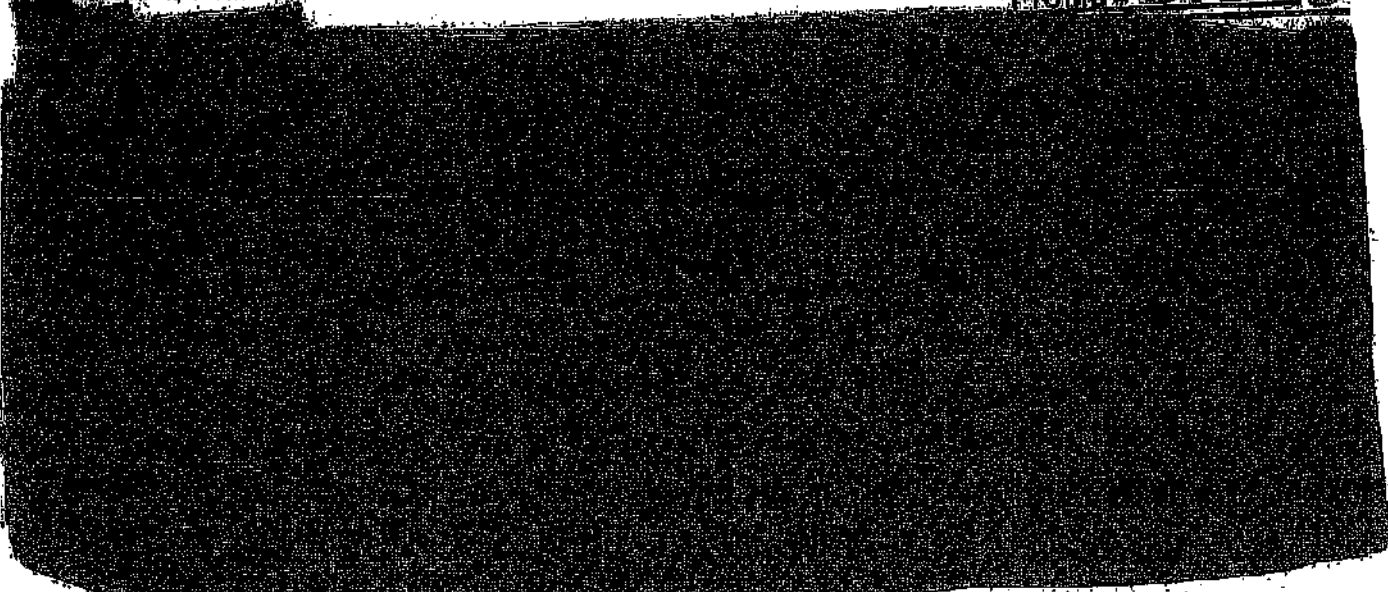


**ENVIRONMENTAL GEO-TECHNOLOGIES, LLC**

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

**Generator Waste Profile**

Profile # **01276**



**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

Electroless nickel plate

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

They strip all the metal off impurities before coating.

**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: 029L

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>green</u>	<b>Suspended Solids</b> <input type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input type="checkbox"/> 1-3% <input type="checkbox"/> >5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <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>063018</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
Water	95	52			%
Solids	45	5			%
Sulfuric Acid	3	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	Arsenic (As)		D004	< 5	ppm	ppm
PCB	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	< 100	ppm	ppm	ppm
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D008	< 1	ppm	ppm	ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	< 5	ppm	ppm	ppm
Cyanides Total	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Lead (Pb)	D008	< 5	ppm	ppm	ppm
Sulfides Reactive	<input checked="" type="checkbox"/>	ppm				Mercury (Hg)	D009	< 0.2	ppm	ppm	ppm
Sulfides Total	<input checked="" type="checkbox"/>	ppm				Selenium (Se)	D010	< 1	ppm	ppm	ppm
						Silver (Ag)	D011	< 5	ppm	ppm	ppm

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

**IS WASTE ANY OF THE FOLLOWING?**

At Least One Box Must Be Checked.

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

**SHIPPING INFORMATION**

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)?     Yes  No
2. Reportable Quantity (RQ) in pounds \_\_\_\_\_
3. DOT Shipping Name Waste NON-RCRA NON-DOT material    Hazard Class UN/NA  
PG ERG    Hazardous Constituents for "h.o.s." \_\_\_\_\_
4. Method of Shipment:     Bulk Tanker     Van truck     Rail Car     Drums     Totes
5. Number of Units to Ship Now: 1000 Gallons    6. Anticipated Volume / Units per Year: 26-30,000 gallons or  One Time
6. Special Handling Requirements including PPE: \_\_\_\_\_

**CERTIFICATION STATEMENT**


I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted so 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 shall be consistent with the results of the sample characterization and/or analysis.

**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.

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	1/30/18
Receiving ID#	
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
	
Transporter name	
Time in	
Time out	
Received by	PS
Sampled by	

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°F		Magnesium
pH (S.U.)	5.3		Sodium Chloride
Cyanides? (mg/L)	230		Bicarbonates
Sulfides? (ppm)	2200		Carbonate
Specific Gravity	1.18		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	61°F		
Conductivity	81µS		
% Solids	37%		
Turbidity	Yes	<input checked="" type="radio"/> No	
Color (visual)	green		
TSS (%)	21%		
Radiation Screen (as needed)	negative		
Lab Signature	