



Environmental GEO-Technologies, LLC

July 31, 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-sixth 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 June, 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. Powals, P.E.
Vice-President

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

att.

rlp063018/EGTEPAMonthlyReport-June, 2018

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2018

CURRENT REPORTING MONTH JUNE

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

Nov 2013

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
MI-163-1W-C010, Well #1-12			
Current Month	103,142	0	103,142
Since facility first injected			14,186,845
MI-163-1W-C011, Well #2-12			
Current Month	0	0	0
Since facility first injected			4,648,736
		Lifetime Combined	18,835,581

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 54

$$\underline{54} \text{ lifetime number of months of injection} \times 43,830 \text{ minutes/month} = \underline{2,366,820} \text{ minutes of injection}$$

$$\text{Lifetime combined injected volume } \underline{18,835,581} \div \underline{2,366,820} \text{ minutes of injection} = \underline{8.0} \text{ gpm average injection rate}$$

WELL 1 DATA

Circle Chart Index

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

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure (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

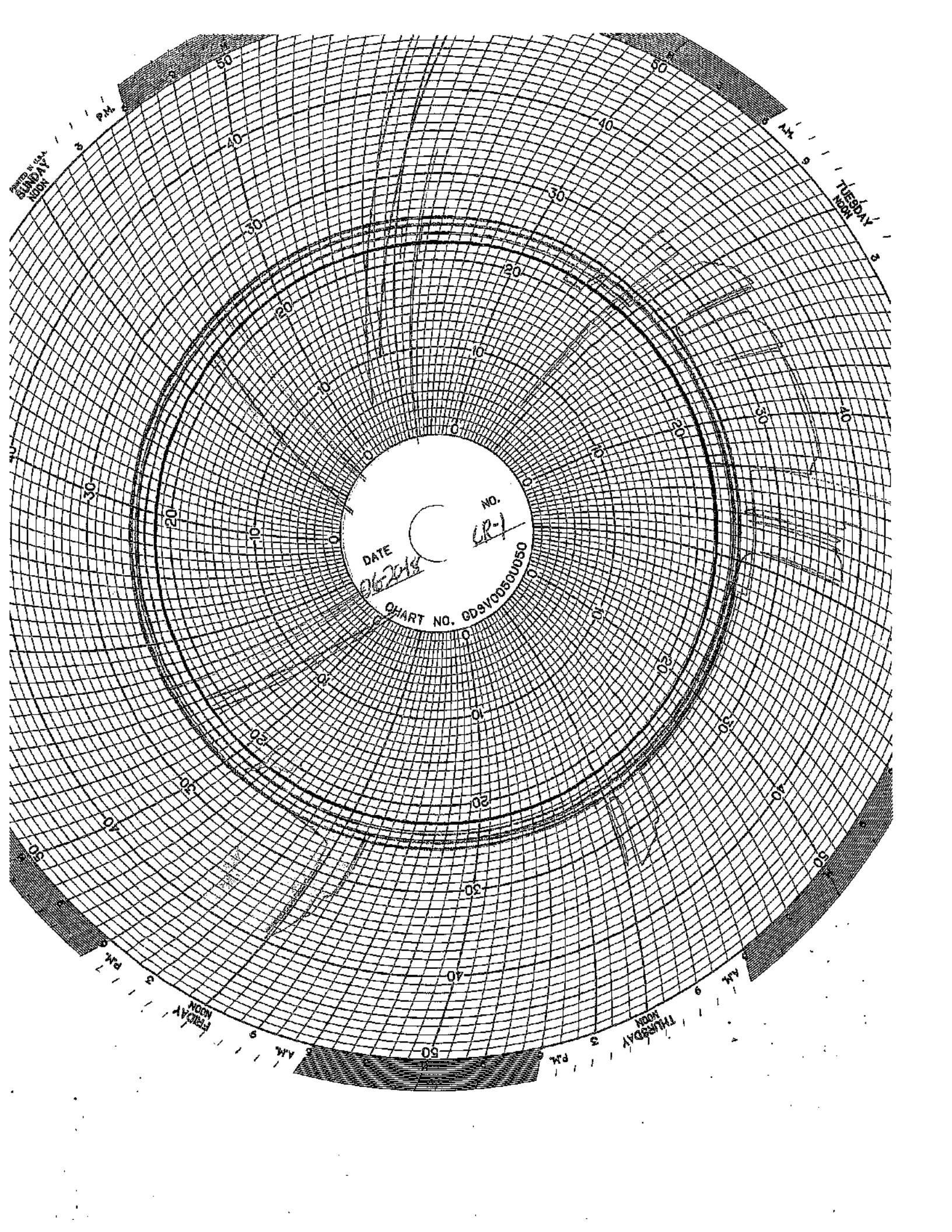
Red Pen - Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

Channel #4

Black Pen - Temperature (chart value x 0)



SUNDAY 3 PM

TUESDAY 3 AM

FRIDAY 3 AM

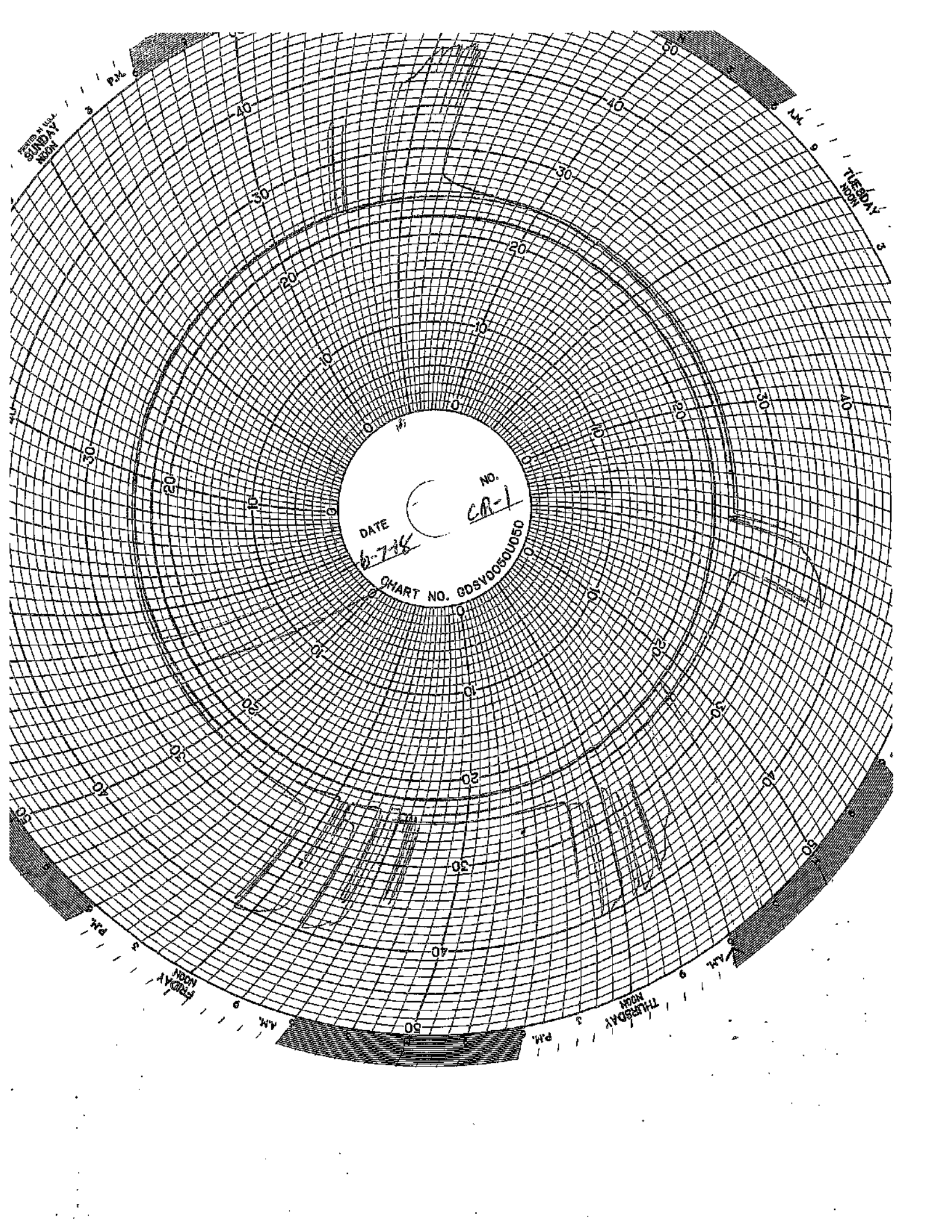
THURSDAY 3 PM

DATE

NO.

(P-1)

CHART NO. 089V050050



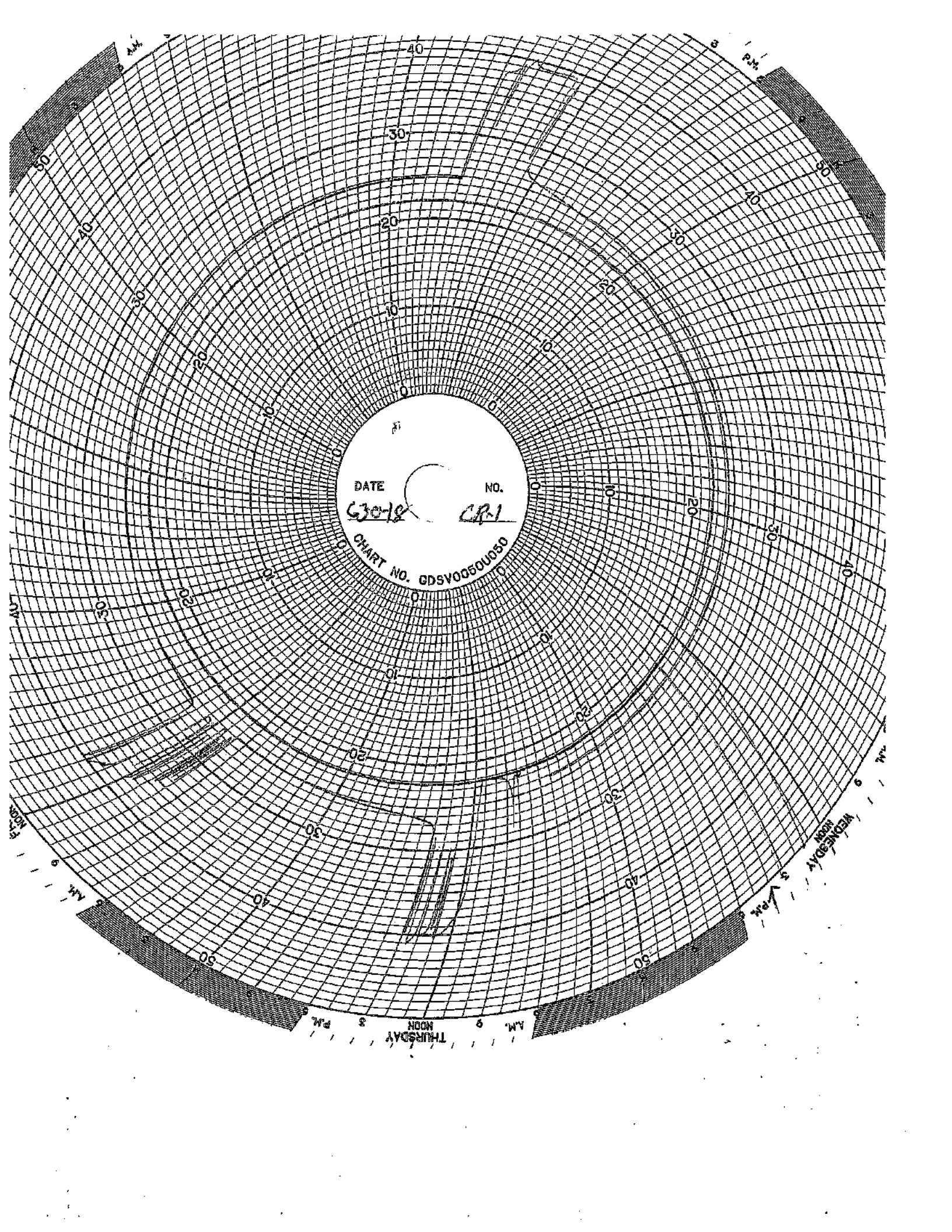
SUNDAY 3 PM

THURSDAY 9 AM

FRIDAY 3 PM

THURSDAY 9 AM

DATE 6-7-76
NO. CR-1
CHART NO. GDSV00501050



DATE 6-30-18 NO. CR-1
CHART NO. GDSV0050U050

THURSDAY
NOON
P.M.

WEDNESDAY
NOON
P.M.

A.M.

A.M.

A.M.

A.M.

WELL 2 DATA

Circle Chart Index

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

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure (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 U.S. SUNDAY NOON

40

30

20

10

0

10

20

30

40

50

40

30

20

10

0

DATE

5-20-18

NO.

CP-2

CHART NO.

085400501050

THURSDAY

NOON

PM

FRIDAY

AM

THURSDAY

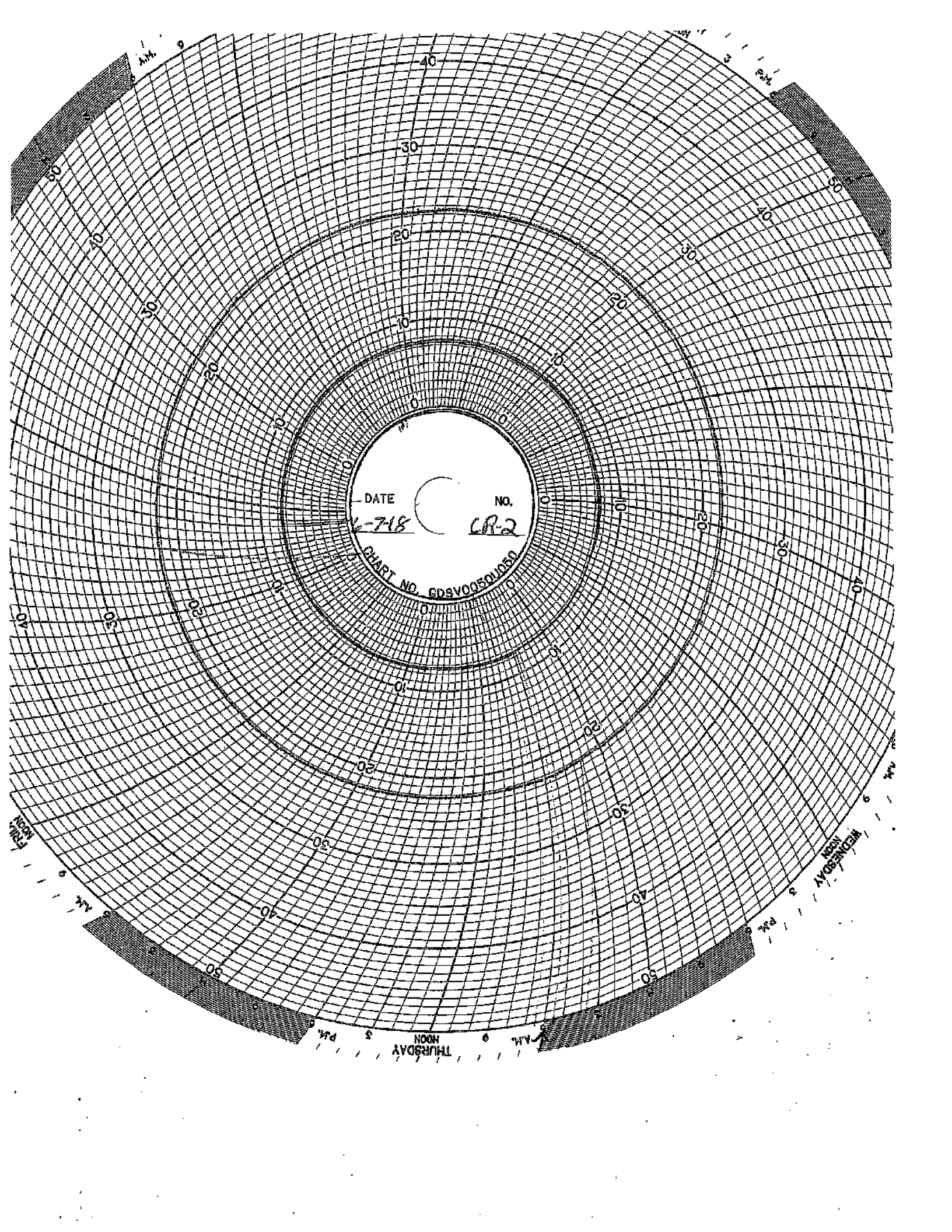
AM

THURSDAY

AM

THURSDAY

AM

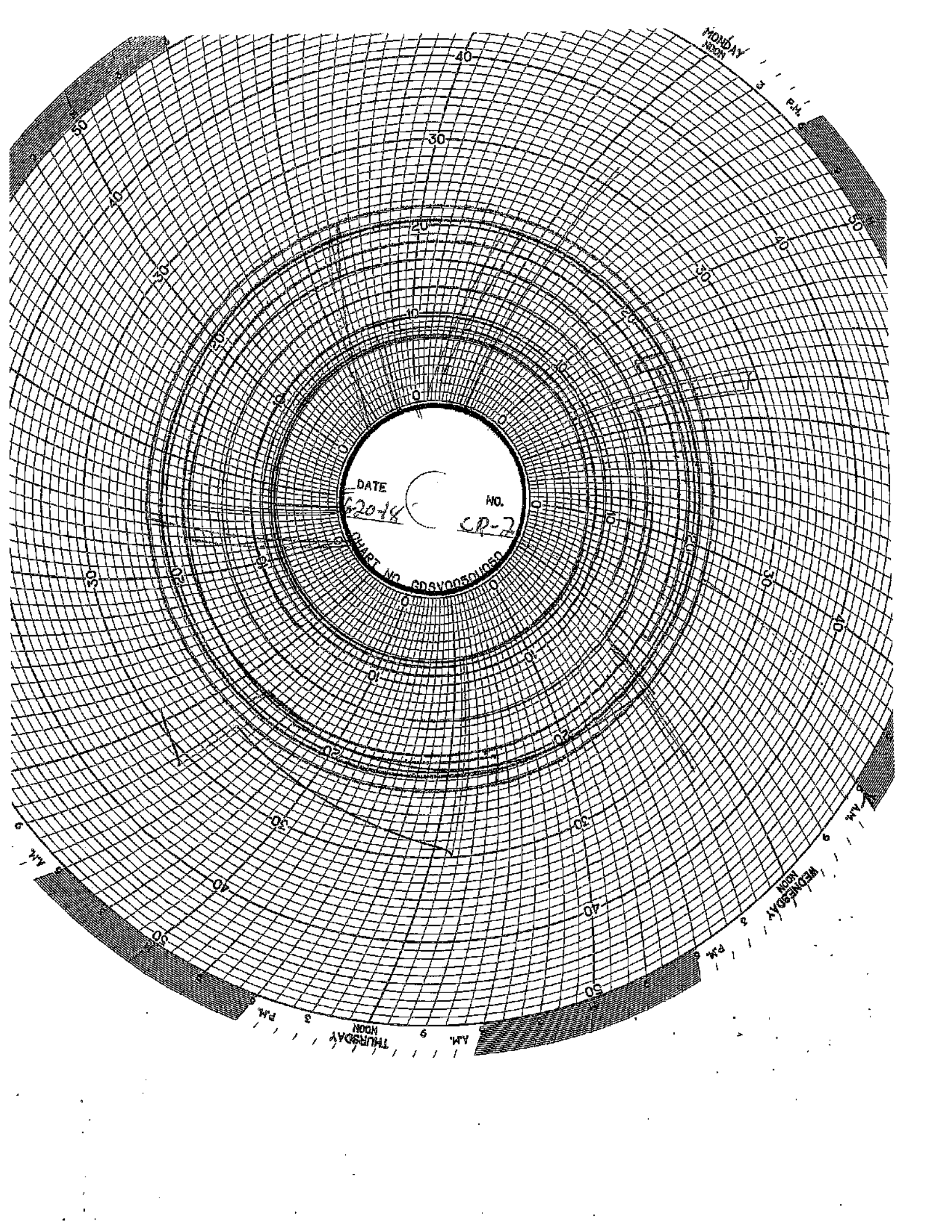


DATE 2-7-18 NO. CR-2

CHART NO. GDSV00501050

THURSDAY

WEDNESDAY



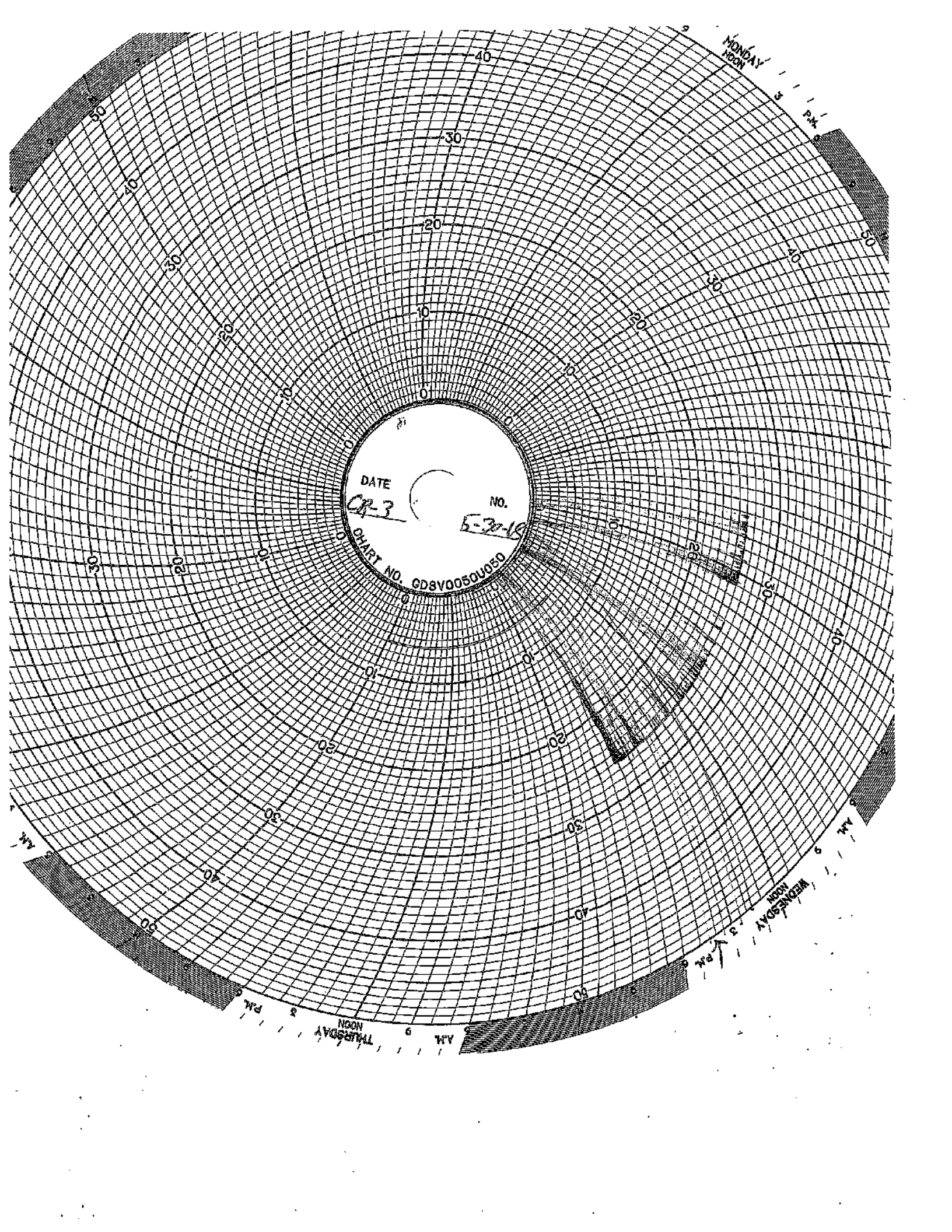
DATE 6-20-14
NO. CP-7
CHART NO. GDSV00501050

MONDAY
NOON

WEDNESDAY
NOON

THURSDAY
NOON

MONDAY
NOON



DATE CR-3 NO. 5-30-18
CHART NO. GD8V0050U050

MONDAY
NOON

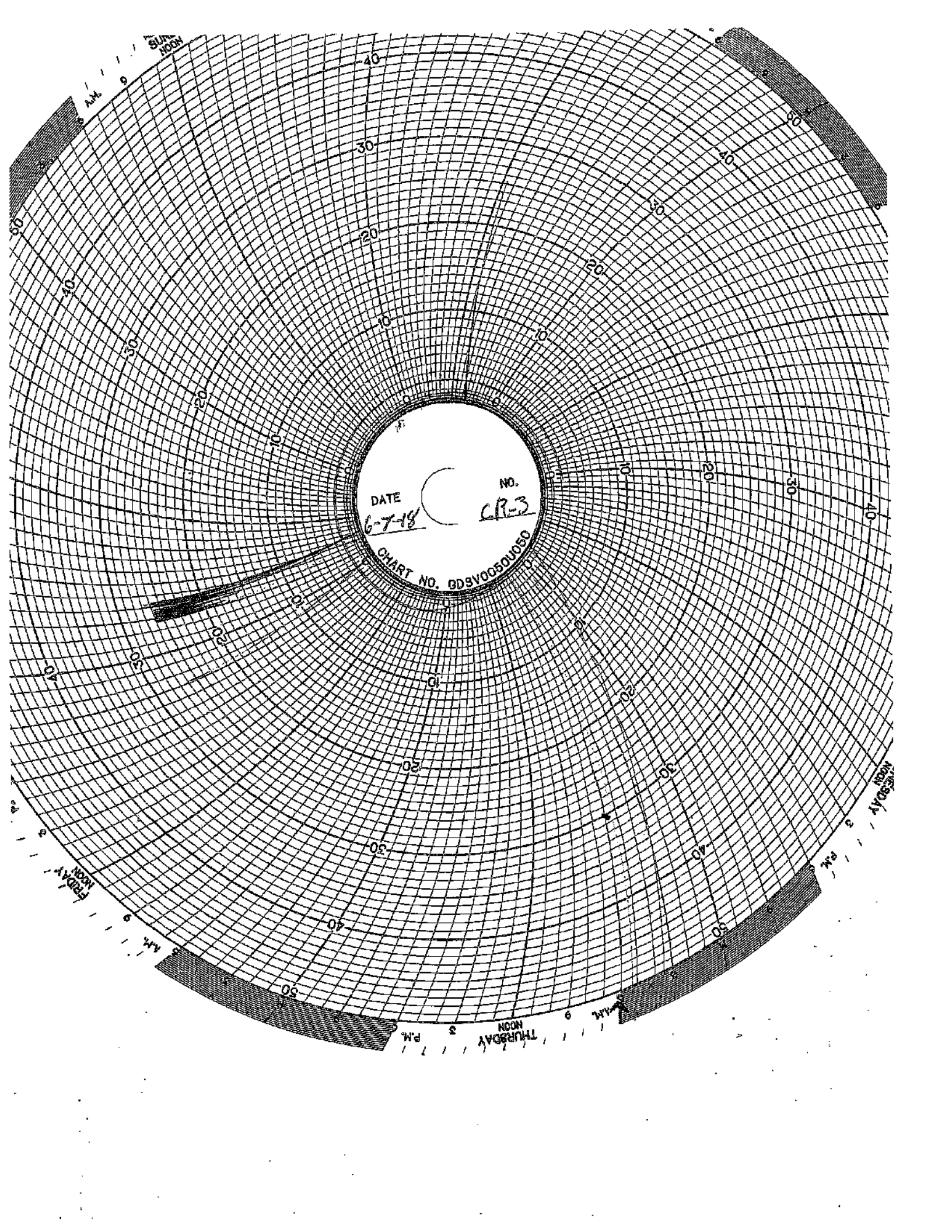
10
20
30
40
50

10
20
30
40
50

WEDNESDAY
NOON

THURSDAY
NOON

10
20
30
40
50



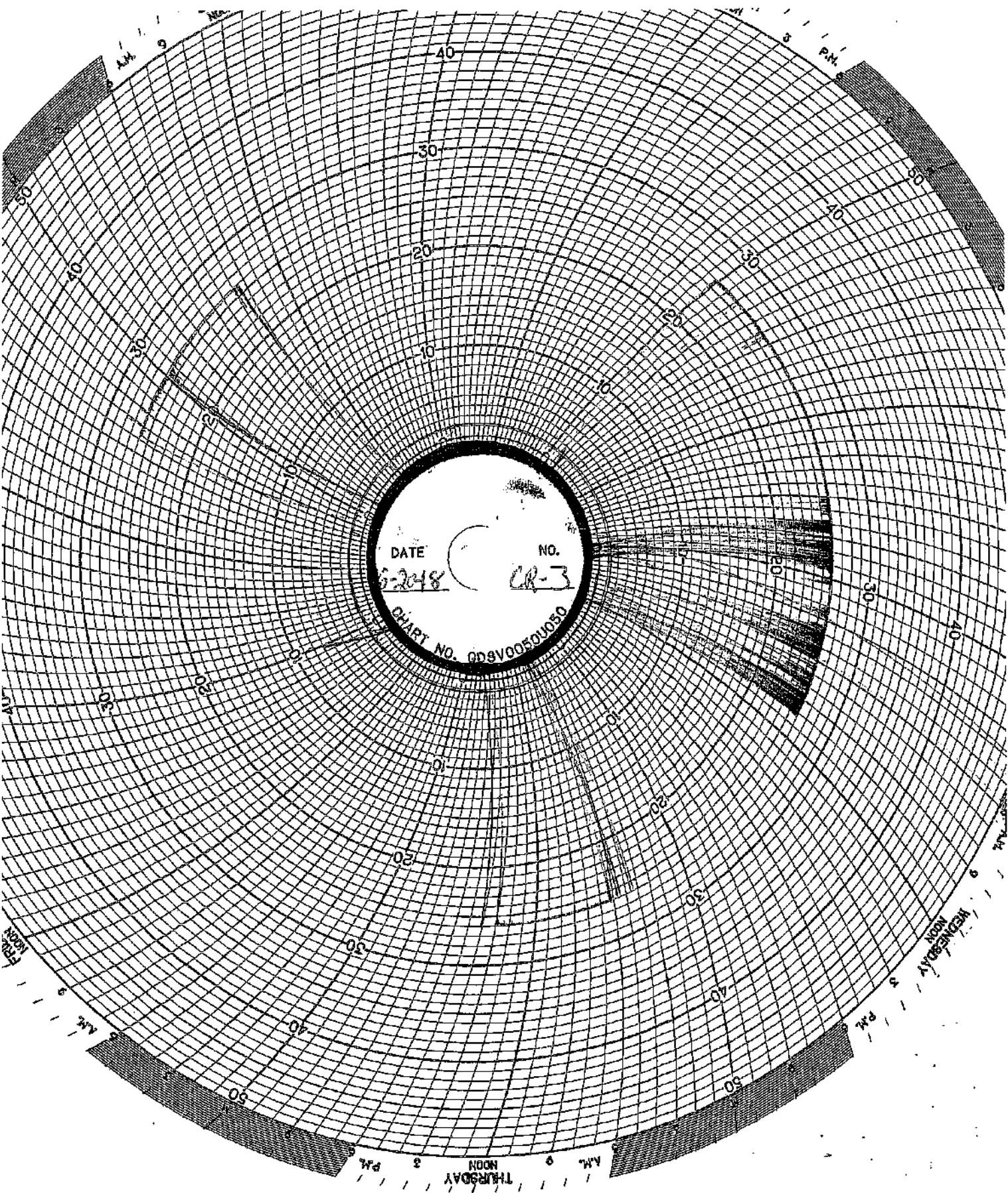
DATE 6-7-18

NO. CR-3

CHART NO. GDSV0050U50

SUN NOON

THURSDAY 9 P.M.



DATE

NO.

5-20-48

CR-3

CHART NO. GDSV00501050

40

30

20

10

30

20

10

20

30

40

50

40

30

20

10

AM 9

PM 9

AM 9

THURSDAY
NOON

AM 9

THURSDAY
NOON

PM 9

MAINTENANCE LOG

UIC Monthly Maintenance Log

No Maintenance This Month

CORROSION MONITORING

CORROSION MONITORING COUPONS VISUAL DESCRIPTION

June, 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

This coupon continues to experience corrosion with minimal loss of mass each month.

**CORROSION MONITORING PLAN
COUPON SUMMARY**

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Redbox)	
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 g	7.196 g	
7/11/2014	13.323 g	10.304 g	7.196 g	
8/12/2014	13.328 g	10.045 g	7.182 g	
9/17/2014	13.321 g	9.997 g	7.090 g	
10/30/2014	13.321 g	9.387 g	7.075 g	
11/21/2014	13.320 g	9.386 g	7.069 g	
12/19/2014	13.321 g	9.315 g	7.084 g	
1/12/2015	13.321 g	9.289 g	7.063 g	
2/23/2015	13.339 g	9.286 g	7.005 g	
3/31/2015	13.339 g	9.286 g	7.005 g	
4/27/2015	13.335 g	9.130 g	6.852 g	
5/21/2015	13.336 g	9.124 g	6.809 g	
6/12/2015	13.334 g	9.126 g	6.819 g	
7/27/2015	13.337 g	9.127 g	6.818 g	
8/26/2015	13.337 g	9.022 g	6.780 g	
9/21/2015	13.336 g	8.987 g	6.792 g	
10/19/2015	13.335 g	8.985 g	6.797 g	
11/16/2015	13.334 g	8.982 g	6.788 g	
12/17/2015	13.334 g	8.933 g	6.791 g	
1/29/2016	13.334 g	8.931 g	6.788 g	New stainless steel coupon
2/16/2016	13.332 g	8.799 g	6.757 g	
3/31/2016	13.339 g	9.286 g	7.005 g	
4/22/2016	13.333 g	8.590 g	6.744 g	
5/31/2015	13.334 g	6.084 g	6.784 g	
6/30/2016	13.328 g	10.942 g	6.793 g	
8/3/2016	13.326 g	10.529 g	6.743 g	
8/29/2016	13.325 g	10.020 g	6.723 g	
10/27/2016	13.325 g	8.765 g	6.708 g	
11/29/2016	13.327 g	8.571 g	6.740 g	
12/12/2016	13.323 g	8.223 g	6.717 g	
1/3/2017	13.325 g	8.059 g	6.712 g	
2/28/2017	13.324 g	7.634 g	6.727 g	
3/24/2017	13.325 g	7.370 g	6.732 g	
4/28/2017	13.325 g	6.736 g	6.736 g	
5/11/2017	13.323 g	7.352 g	6.689 g	
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	
1/29/2018	13.326 g	10.930 g	18.027 g	New stainless steel coupon
2/9/2018	13.325 g	10.932 g	18.044 g	
3/19/2018	13.325 g	10.926 g	18.030 g	
4/16/2018	13.336 g	10.863 g	18.068 g	
5/17/2018	13.325 g	10.858 g	18.037 g	
6/20/2018	13.25 g	10.855 g	18.029 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.

20450 HARPER AVENUE
HARPER WOODS, MI 48226
PHONE (313) 885-3535
FAX (313) 885-1771

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

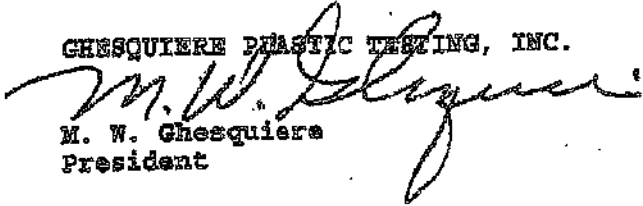
Hardness

Specimen 1

90

Specimen is being returned with this report for further evaluation.

GHSQUIERE PLASTIC TESTING, INC.


M. W. Ghesquiere
President

MWG/kzi

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TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

20460 HARPER AVENUE
HARPER WOODS, MI 48226
PHONE (813) 885-3535
FAX (813) 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 1402-78036-90

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

Ghesquiere Plastic Testing, Inc.

M. W. Ghesquiere
President

MWG/am

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TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

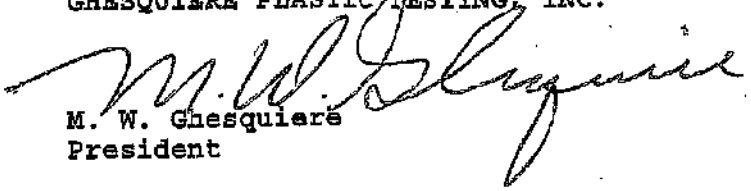
The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm



October 2, 2014

TEST REPORT

PN 118325

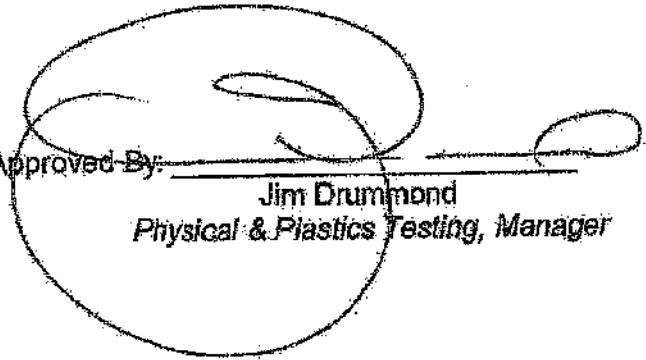
PO Attn: John Frost

PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By: 
Melissa Martin
Sr. Project Technician

Approved By: 
Jim Drummond
Physical & Plastics Testing, Manager



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



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www.ardl.com

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



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



Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

▪ **TEST REPORT** ▪

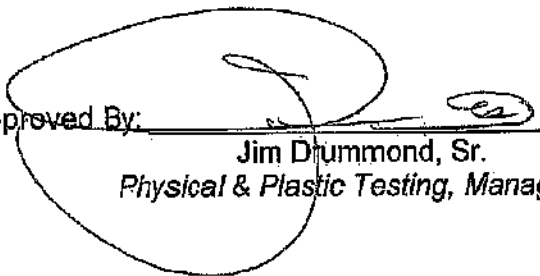
PN 125322
PO 00154

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 & 255.02
ISO 9001:2008 Registered

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



October 22, 2015

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 125322

SUBJECT: Barcol Hardness on one material.

RECEIVED: One small section identified as; Fiberglass Coupon.

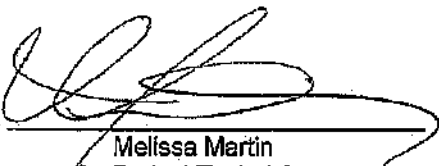
BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

Results

Barcol Hardness, Instant

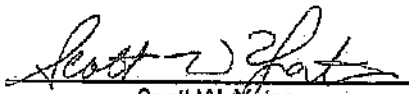
96

Prepared By:



Melissa Martin
Sr. Project Technician

Approved By:



Scott W. Yates
Plastics Testing Assistant Manager

to



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

Approved By:

Jim Drummond
Physical Testing, Manager

Rev 041916



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ISO 9001:2008
Registered

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December 12, 2016

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 132662


SUBJECT: Barcol Hardness on one (1) material.

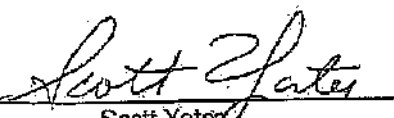
RECEIVED: One (1) small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

RESULTS

Barcol Hardness, Instant 96

Prepared By: 
Melissa Martin
Senior Project Technician

Approved By: 
Scott Yates
Plastics Testing, Assistant Manager

wk

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



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 041816



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December 13, 2017

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 139140

SUBJECT: Barcol Hardness on one material.

RECEIVED: One small section identified as; Fiberglass Coupon.


BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

Results

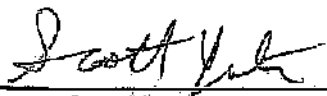
Barcol Hardness, Instant

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

FINGERPRINT INFORMATION	
Date	8:30a 00-01-18
Receiving ID#	406011801
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		CHEMICAL 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.)	9.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	420
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	71°F		
Conductivity	26µS		
% Solids	4%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	1.9%		
Radiation Screen (as needed)			
Lab Signature	PC		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	100006-04-18	
Receiving ID#	100041801	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	TF	

COPY

PROPERTY	TEST RESULT	ANALYTICAL
Compatible? (RT#)	Yes No	Barium
PCEs (ppm)(Oily Waste Only)?		Calcium
TOC (ppm)(CC Waste Only)?		Total Iron
Flash Point (°F)	7140°F	Magnesium
pH (S.U.)	0.1	Sodium Chloride
Cyanides? (mg/L)		Bicarbonate
Sulfides? (ppm)		Carbonate
Specific Gravity	1.08	TDS
Physical Description		Resistivity
Stream Consistency	Yes No	Sulfate
Oil in Sample	Yes No	
Temperature	70°F	
Conductivity	94µS	
% Solids	14%	
Turbidity	Yes No	
Color (visual)		
TSS (%)	≤ 1%	
Radiation Screen (as needed)		
Lab Signature		


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	4:30 AM	06-08-18
Receiving ID#	L06081801	
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	TE	

COPY

Compatible? (RT#)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?			Calcium	
TOC (ppm)(CC Waste Only)?			Total Iron	
Flash Point (°F)	2140°F		Magnesium	
pH (S.U.)	0.3		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.06		TDS	1270
Physical Description			Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	74°F			
Conductivity	214 mS			
% Solids	12%			
Turbidity	Yes	No		
Color (visual)				
TSS (%)	11%			
Radiation Screen (as needed)				
Lab Signature				


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	1:30am	5061119
Receiving ID#		106111901
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by		RS
Sampled by		RAW

COPY

Compatible? (RT#)	Yes	No	Barium	
PCBs (ppm)(Oily Waste Only)?			Calcium	
TOC (ppm)(CC Waste Only)?			Total Iron	
Flash Point (°F)	>140°F		Magnesium	
pH (S.U.)	0.1		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.10		TDS	9%
Physical Description			Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	74°F			
Conductivity	143mS			
% Solids	9%			
Turbidity	Yes	No		
Color (visual)				
TSS (%)	21%			
Radiation Screen (as needed)				
Lab Signature				

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	12:00 AM	06-13-18
Receiving ID#	90613101	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time In		
Time out		
Received by	PS	
Sampled by	D	

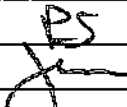
COPY

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	10%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	74°F		
Conductivity	76µS		
% Solids	10%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	21%		
Radiation Screen (as needed)			
Lab Signature	Pm		

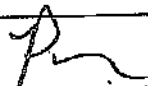
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	6-14-18	
Receiving ID#	11052-I0614180.1	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by		

COPY

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140°C	Magnesium	
pH (S.U.)	4.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	790
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	73°F		
Conductivity	58mS		
% Solids	890		
Turbidity	Yes No		
Color (visual)			
TSS (%)	190		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	9:00 am	90615/801
Receiving ID#		
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by		PS
Sampled by		

COPY

Compatible? (RT#)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?			Calcium	
TOC (ppm)(CC Waste Only)?			Total Iron	
Flash Point (°F)	7140°F		Magnesium	
pH (S.U.)	4.5		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.04		TDS	16%
Physical Description			Resistivity	
Stream Consistency	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Sulfate	
Oil In Sample	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Temperature	78°F			
Conductivity	33 uS			
% Solids	16%			
Turbidity	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Color (visual)				
TSS (%)	41%			
Radiation Screen (as needed)				
Lab Signature				


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	8:30 AM	06-20-18
Receiving ID#	106201801	
Manifest# Line:		
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	RS	
Sampled by	TF	

COPY

Compatible? (RT#)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	0.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	2190
Physical Description		Resistivity	
Stream Consistency	Yes <input type="checkbox"/> No <input type="checkbox"/>	Sulfate	
Oil in Sample	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Temperature	74°F		
Conductivity	138µS		
% Solids	2.1%		
Turbidity	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Color (visual)			
TSS (%)	4.1%		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	9120a 6-26-18
Receiving ID#	106261801
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

COPY

PHYSICAL & CHEMICAL		ANALYSIS	
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.)	3.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	12%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	73°F		
Conductivity	27mS		
% Solids	12%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	41%		
Radiation Screen (as needed)			
Lab Signature	<i>[Signature]</i>		

**WASTE STREAMS
CHARACTERIZATIONS**

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **01359**

GENERATOR INFORMATION

Name: [REDACTED] USEPA ID # [REDACTED]
 Facility Address: [REDACTED] SIC/NA/OS Code [REDACTED] State Code: [REDACTED]
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]
 Contact: [REDACTED] Phone: [REDACTED] Fax: [REDACTED]

BILLING INFORMATION

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

WASTE INFORMATION

Name of Waste/Common Chemical Name: ALKALINE CLEANER
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
ALKALINE CLEANER USED TO CLEAN BRASS PARTS. BRASS IS PLATED

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 D003 D003

PHYSICAL CHARACTERISTICS OF WASTE

Color <input 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"/> 0.1-3% <input type="checkbox"/> 3-5% <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 checked="" type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 <input type="checkbox"/> Exact Other	<i>acceptable</i> <i>06/18/18</i>
--	---	---	---	--------------------------------------

DH: NA ≤ 2 2-4 4-6 6-8 8-10 10-12.5 ≥ 12.5
 Liquid Flash Point: < 73°F 73-100°F 101-140°F 141-200°F > 200°F None Closed Cup Open Cup

VOC CONCENTRATION: -0- PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
WATER	100	100			%
SUSPENDED SOLIDS (CLEANER)	5	100			%
					%
					%

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

Not Present	Concentration	Not Present	Concentration	Element (As)	Code	Limit	Unit	ppm
<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	Arsenic (As)	D004	< 5	ppm	ppm
<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	< 100	ppm	ppm
<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D006	< 1	ppm	ppm
<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	< 5	ppm	ppm
<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	Lead (Pb)	D008	< 5	ppm	ppm
<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	Mercury (Hg)	D009	< 0.2	ppm	ppm
<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	Selenium (Se)	D010	< 1	ppm	ppm
<input checked="" type="checkbox"/>	ppm	<input checked="" type="checkbox"/>	ppm	Silver (Ag)	D011	< 5	ppm	ppm

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

IS WASTE ANY OF THE FOLLOWING? At Least One Box Must Be Checked.
 Radioactive Water Reactive Oxidizer Shock Sensitive Reactive (other) DOT Explosives
 NIOSH Human Positive Carcinogens NESHAP Wastes (Benzene, etc.) Biological None Apply

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name PG Waste Containing Lead, Barium, Cadmium, Mercury Hazard Class 8 UNNA 3266
4. Method of Shipment: Bulk Tanker Van truck Rail Car Drums Totes
5. Number of Units to Ship Now: 4 500 Gallons. Anticipated Volume / Units per Year: 4 yr of One Time or Special Handling Requirements including BPE: _____

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 these individuals responsible for supplying, accumulating 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 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 report any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory analysis.

Printed Name: [Redacted] Title: [Redacted]
 Generator's Signature: [Redacted] Date: [Redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: Please collect a representative 1-gallon 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 listed 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. DIP 2. AT THE TANK

SAMPLING METHOD: _____ COLLECTION POINT: _____

3. [Redacted]

SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER: _____

4. Sample No. _____ Preservation: Yes No

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

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

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/24/18
Receiving ID#	
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	METAL DEPOSITOR
Transporter	
Time in	
Time out	
Received by	FS
Sampled by	

Compatible? (RT#) <i>62205</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?	<i>N/A</i>	Calcium	
TOC (ppm)(CC Waste Only)?	<i>N/A</i>	Total Iron	
Flash Point (°F)	<i>>1400</i>	Magnesium	
pH (S.U.)	<i>13.7</i>	Sodium Chloride	
Cyanides? (mg/L)	<i>230</i>	Bicarbonate	
Sulfides? (ppm)	<i>200</i>	Carbonate	
Specific Gravity	<i>1.04</i>	TDS	
Physical Description	<i>liquid</i>	Resistivity	
Stream Consistency	<input checked="" type="radio"/> Yes <input type="radio"/> No	Sulfate	
Oil In Sample	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		
Temperature	<i>74°F</i>		
Conductivity	<i>83mS</i>		
% Solids	<i>2%</i>		
Turbidity	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Color (visual)	<i>brown</i>		
TSS (%)	<i><1%</i>		
Radiation Screen (as needed)	<i>Negative</i>		
Lab Signature	<i>[Signature]</i>		

GENERATOR INFORMATION

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

BILLING INFORMATION SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

MINERAL ACID MIXTURE

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

FROM DIP TANK USED TO STRIP & CLEAN METAL PARTS PRIOR TO FABRICATION

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input checked="" type="checkbox"/> 1.3 - 1.4 Exact / Other _____	<i>acceptable</i> <i>062818</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	70	90	SULFURIC ACID	0	15
HYDROCHLORIC / SULFURIC ACID	0	15	GREASE, OIL, DIRT, METALS	0.1	5

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

<input checked="" type="checkbox"/> Lab Analysis		<input type="checkbox"/> Generator Knowledge		<input checked="" type="checkbox"/> TCLP		<input type="checkbox"/> TOTAL	
PCB	<input checked="" type="checkbox"/> Not Present	Concentration	ppm	Aromatic Amine	<input checked="" type="checkbox"/> Not Present	Concentration	ppm
Dioxins	<input checked="" type="checkbox"/>			Pesticides	<input checked="" type="checkbox"/>		
Cyanides Reactive	<input checked="" type="checkbox"/>			Rodenticides	<input checked="" type="checkbox"/>		
Cyanides Total	<input checked="" type="checkbox"/>			Fungicides	<input checked="" type="checkbox"/>		
Sulfides Reactive	<input checked="" type="checkbox"/>						
Sulfides Total	<input checked="" type="checkbox"/>						
				Arsenic (As) D004	<input checked="" type="checkbox"/>	< 5 ppm	ppm
				Barium (Ba) D005	<input checked="" type="checkbox"/>	< 100 ppm	ppm
				Cadmium (Cd) D006	<input checked="" type="checkbox"/>	< 1 ppm	ppm
				Chromium (Cr) D007	<input type="checkbox"/>	< 5 ppm	10 ppm
				Lead (Pb) D008	<input checked="" type="checkbox"/>	< 5 ppm	ppm
				Mercury (Hg) D009	<input checked="" type="checkbox"/>	< 0.2 ppm	ppm
				Selenium (Se) D010	<input checked="" type="checkbox"/>	< 1 ppm	ppm
				Silver (Ag) D011	<input checked="" type="checkbox"/>	< 5 ppm	ppm

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

Radioactive
 Water Reactive
 Oxidizer
 Shock Sensitive
 Reactive (other)
 DOT Explosives
 NIOSH Human-Positive Carcinogens
 NESHAIP 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 100

3. DOT Shipping Name WASTE CORROSIVE LIQUIDS, ACIDIC, INORGANIC, NOS Hazard Class 8 UN/NA UN3264

PG II ERG _____ Hazardous Constituents for "n.o.s." (SULFURIC ACID, PHOSPHORIC ACID)

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

5. Number of Units to Ship Now: 1-2 6. Anticipated Volume / Units per Year: _____ or One Time

6. Special Handling Requirements including PPE: LEVEL C

CERTIFICATION STATEMENT

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

Printed Name: _____ Title: _____

Generator's Signature: _____ Date: _____

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

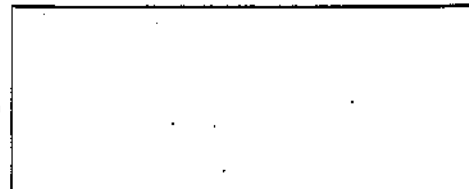
1. COMPOSITE 2. FROM TOTES (30% REPRESENTED)

SAMPLING METHOD COLLECTION POINT

3. _____

SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. 1 Preservation: Yes No



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

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



Analytical Report

June 12, 2018

[Redacted]
[Redacted]
[Redacted]

Order: 18E0657

RE:

[Redacted]

Dear

[Redacted]

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Approved by,

[Redacted Signature]

[Redacted Signature]

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Illinois, NELAP Accredited Lab No. 100256, Cert No. 003674





Case Narrative

 Client:
Project:

Date: 06/12/2018

Work Order:

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 18E0857

The samples were received on 05/25/18 13:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

Cooler	Temp C°
Default Cooler	4.1

Some of the analyses for this work order were subcontracted. Subcontract data and receipt information is provided. Please also refer to subcontract lab narrative as needed.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC Semivolatiles

Method: 8082A_PCB, 18E0857-07: The sample was extracted past the recommended seven day hold time.

GC/MS Semivolatiles

Method: 8270D_SVOC_TCLP, S8F0117-CCV1: The percent recovery for Pentachlorophenol was 76% below the 80% laboratory control limit. However, the compound was within acceptable limits in the BS and BSD.

Method: 8270D_SVOC_TCLP, 18E0857-07: The recoveries for surrogate compounds were not detected due to the sample matrix.

Method: 8270D_SVOC_TCLP, 18E0857-08: The recoveries for surrogate compounds Nitrobenzene-d5 and 2-Fluorobiphenyl were below the laboratory control limits. The recovery for Nitrobenzene-d5 was 18%, below the 23% laboratory control limit, and the recovery for 2-Fluorobiphenyl was 26%, below the 28% laboratory control limit.

Method: 8270D_SVOC_TCLP, 18E0857-09: The recoveries for some surrogate compounds were below the laboratory control limits due to the sample matrix.

Method: 8270D_SVOC_TCLP, 18E0857-10: The recoveries for surrogate compounds 4-Terphenyl-d14 was 58%, below the 79% laboratory control limit. However, the remaining base surrogate compound recoveries were acceptable.

CASE NARRATIVE

The samples received on 06/01/18 10:20 for Work Order 1F80102 were contained in client supplied containers.

CASE NARRATIVE

The samples received on 06/05/18 10:40 for Work Order 1F80338 were contained in client supplied containers.



Environmental
Monitoring and
Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Client Sample Results
(Continued)

Client:

Project:

Work Order:

Client Sample ID: ~~ACID~~

Report Date: 06/12/2018

Collection Date: 05/23/2018 13:15

Matrix: Water

Lab ID: 18E0857-02

Analyses	Result	EMT Reporting		Units	Date/Time Analyzed	Batch	Analyst
		Limit	Qual				
Metals by ICP-AES							
Method: SW60100 / SW2016 / SW1311							
Arsenic, TCLP	< 0.500	0.500		mg/L	05/30/18 18:58	B8E1050	MLB
Barium, TCLP	< 0.500	0.500		mg/L	05/30/18 18:58	B8E1050	MLB
Cadmium, TCLP	0.419	0.0500		mg/L	05/30/18 18:58	B8E1050	MLB
Chromium, TCLP	0.053	0.500		mg/L	05/30/18 18:58	B8E1050	MLB
Lead, TCLP	0.545	0.500		mg/L	05/30/18 18:58	B8E1050	MLB
Selenium, TCLP	< 0.500	0.500		mg/L	05/30/18 18:58	B8E1050	MLB
Silver, TCLP	1.28	0.0500		mg/L	05/30/18 18:58	B8E1050	MLB
Mercury by CVAA							
Method: SW7470A / SW1311							
Mercury, TCLP	< 0.00100	0.00100		mg/L	05/30/18 15:24	B8E1045	GSB
Wet Chemistry							
Method: SW9041A							
pH				pH Units	05/29/18 15:13	B8E1020	PK1

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	6/29/18
Receiving ID#	
Manifest# — Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	Acad
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	

Compatible? (RT#) Acids	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	>1400°F	Magnesium	
pH (S.U.)	0.8	Sodium Chloride	
Cyanides? (mg/L)	130	Bicarbonate	
Sulfides? (ppm)	1200	Carbonate	
Specific Gravity	1.06	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	77°F		
Conductivity	45µS		
% Solids	6%		
Turbidity	Yes (No)		
Color (visual)	gold/green		
TSS (%)	<1%		
Radiation Screen (as needed)	negative		
Lab Signature	PS		