



REPUBLIC
SERVICES

28470 Citrin Drive Romulus, MI 48174
o 734.946.1000 republicservices.com

December 2nd, 2022

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

Re: RIES Monthly Report

Dear Mr. Batka:

Republic Industrial and Energy Solutions, LLC (RIES) hereby submits the Hundred and Fifth Monthly Report ("MR") in conformance with the requirements of its two EPA UIC permits (#s MI-163-1W-C010 & MI-163-1W-C011). RIES is providing all 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.

RIES accepted F039 waste in October of 2022 so as stated on page A-3 of RIES's two EPA UIC permits an analysis is required and is included in this report.

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 supervision and interaction with the persons who manage and operate the system, and those persons responsible for the collection of the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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

Sincerely,


John Frost

cc: Rick Sauve (Republic Services)

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2022

CURRENT REPORTING MONTH October

Date (month, year) of the first injection into either well at the Citrin Road Facility
November 2013

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
MI-163-1W-C010 , Well #1-12			
Current Month	326,940	0	326,940
Since facility first injected			49,853,773
MI-163-1W-C011, Well #2-12			
Current Month	452,741	0	452,741
Since facility first injected			29,718,746
		Lifetime Combined	79,572,519

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 106

106 lifetime number of months of injection × 43,830 minutes/month
= 4,645,980 minutes of injection

Lifetime combined injected volume 79,572,519 ÷ 4,645,980 minutes of injection
= 17.13 gpm average injection rate

WELL 1 DATA



Injection Well 1, October 2022

	Injection Pressure (psig)		Annulus Tank Level (inch)		Annulus Pressure (psig)		Injection pH		Flow Rate (gpm)		Differential Pressure (psig)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
10/1/2022	110.6	181.7	24.7	24.8	938.7	971.9	7.1	7.6	0.0	0.0	790.0	829.6
10/2/2022	109.4	111.1	24.7	24.8	934.4	939.5	7.0	7.1	0.0	0.0	824.8	828.8
10/3/2022	109.1	954.9	24.7	24.8	932.9	1,348.7	2.8	8.2	0.0	48.7	338.6	825.8
10/4/2022	132.5	940.1	24.7	24.9	951.3	1,379.1	2.4	7.9	0.0	49.1	348.7	819.3
10/5/2022	133.0	940.2	24.8	24.9	964.3	1,450.9	3.0	7.3	0.0	47.9	401.5	839.6
10/6/2022	141.0	940.4	24.8	24.9	993.5	1,529.4	2.8	8.1	0.0	48.3	412.8	856.6
10/7/2022	141.7	940.4	24.8	24.9	1,029.1	1,439.6	2.9	7.7	0.0	48.0	390.5	909.6
10/8/2022	38.8	940.1	24.7	24.8	952.8	1,345.4	0.9	7.8	0.0	73.1	401.1	1226.5
10/9/2022	38.8	45.2	24.6	24.8	935.0	953.4	2.4	2.5	0.0	0.0	890.0	914.4
10/10/2022	44.8	940.2	24.7	24.9	929.4	1,358.3	2.0	10.1	0.0	73.9	338.8	890.9
10/11/2022	139.3	939.4	24.7	24.9	934.4	1,320.4	2.8	8.7	0.0	49.4	342.2	799.2
10/12/2022	118.1	939.5	24.8	24.9	920.0	1,279.2	2.6	7.3	0.0	38.2	329.3	806.0
10/13/2022	113.6	922.4	24.7	24.8	913.1	1,259.4	2.8	8.1	0.0	29.6	325.9	800.8
10/14/2022	106.1	920.2	24.6	24.8	904.8	1,239.2	4.8	7.5	0.0	29.7	318.7	801.8
10/15/2022	114.0	119.1	24.7	24.7	897.6	905.3	7.1	7.4	0.0	0.0	783.2	786.8
10/16/2022	111.2	114.3	24.6	24.7	892.5	898.4	7.4	7.4	0.0	0.0	780.8	784.5
10/17/2022	100.2	926.8	24.6	24.7	874.1	1,198.7	6.2	8.7	0.0	39.1	260.8	784.8
10/18/2022	85.2	940.1	24.6	24.6	875.8	1,208.2	4.1	9.8	0.0	38.9	268.0	784.2
10/19/2022	111.3	939.3	24.5	24.6	877.6	1,244.0	5.4	8.2	0.0	29.6	283.4	772.5
10/20/2022	122.1	940.1	24.6	24.6	885.1	1,250.2	2.9	8.0	0.0	48.9	290.9	771.5
10/21/2022	121.2	939.8	24.6	24.8	886.8	1,245.8	2.8	8.1	0.0	49.0	279.7	768.3
10/22/2022	129.7	205.5	24.7	24.8	872.5	923.3	7.0	7.6	0.0	0.0	717.4	752.4
10/23/2022	126.0	130.0	24.7	24.8	864.1	873.4	6.5	7.4	0.0	0.0	737.6	743.7
10/24/2022	118.8	940.1	24.7	24.9	861.9	1,335.5	2.7	8.1	0.0	49.0	269.4	781.8
10/25/2022	123.2	940.1	24.8	24.9	892.6	1,342.6	2.6	8.0	0.0	29.7	330.3	791.9
10/26/2022	135.1	940.2	24.8	24.9	893.2	1,342.8	3.0	7.6	0.0	21.9	337.3	792.4
10/27/2022	135.7	940.2	24.7	24.8	882.0	1,309.8	2.9	7.2	0.0	50.1	321.0	768.1
10/28/2022	133.0	940.1	24.7	24.8	899.5	1,307.3	2.7	10.6	0.0	25.1	324.6	763.3
10/29/2022	2.2	940.7	24.6	24.8	846.5	1,248.6	1.0	7.8	0.0	77.8	300.9	1161.0
10/30/2022	2.7	3.9	24.6	24.7	826.0	847.0	2.4	2.4	0.0	0.0	822.5	844.3
10/31/2022	3.2	1586.4	24.7	24.8	821.4	1,336.8	2.4	7.4	0.0	78.4	-763.5	823.4

Well 1 Data Comments

On 10/31/22, at 8:48 AM, the injection pump was started. The wing valve between the injection flow line and well tree was closed. This resulted in a high reading on the injection pressure gauge situated on the well tree. The injection pump ran less than 30 seconds before it was shut off. This did not result in any equipment failure or waste release.

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

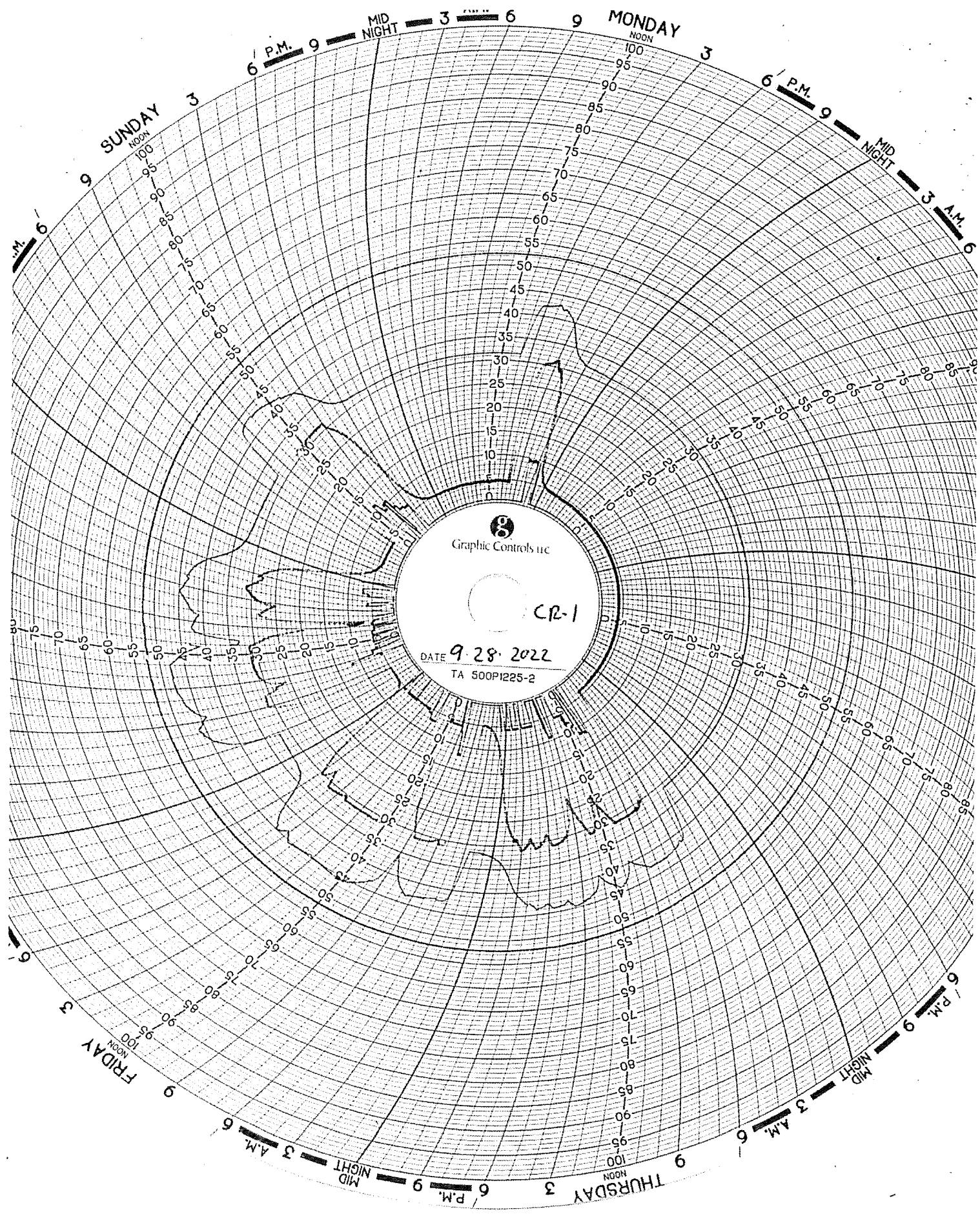
Red Pen - Well 1 Monthly Volume (chart value x 100,000)

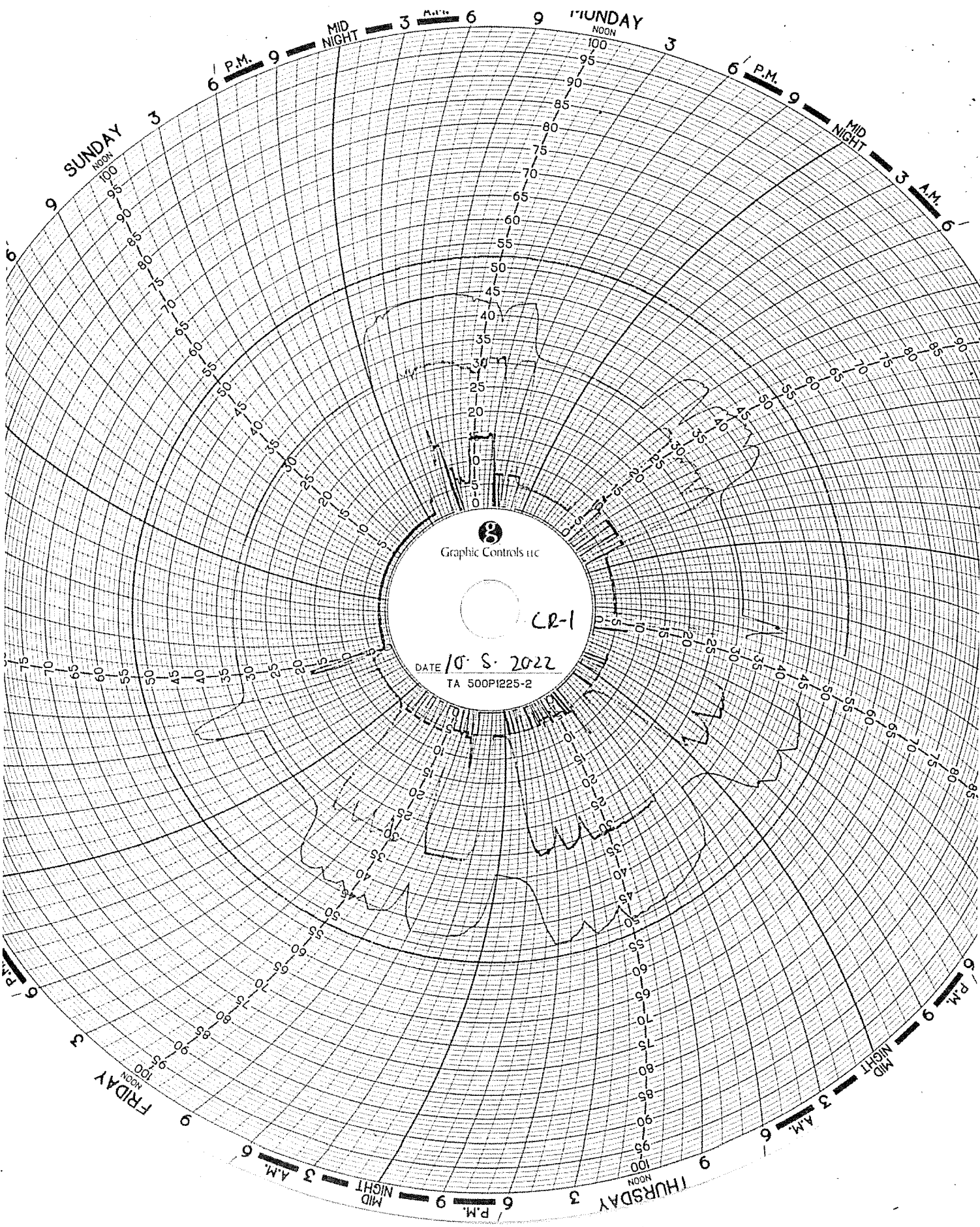
Channel #3

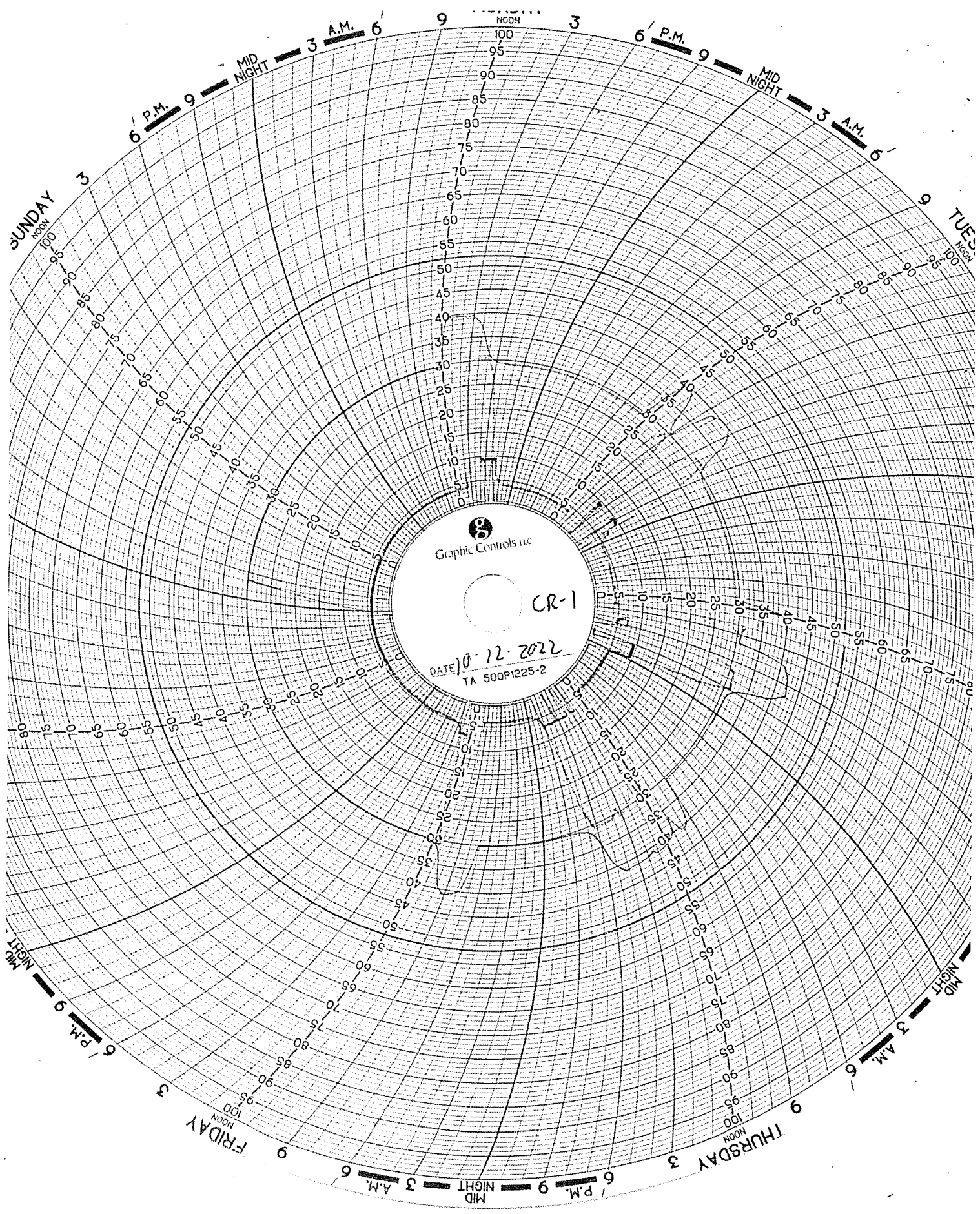
Green Pen - Well 2 Monthly Volume (chart value x 100,000)

Channel #4

Black Pen - Temperature (chart value x 0)







Graphic Controls Inc

CR-1

DATE 10-12-2022
TA 500PI225-2

SUNDAY
NOON
100

TUES
NOON
100

FRIDAY
NOON
100

THURSDAY
NOON
100

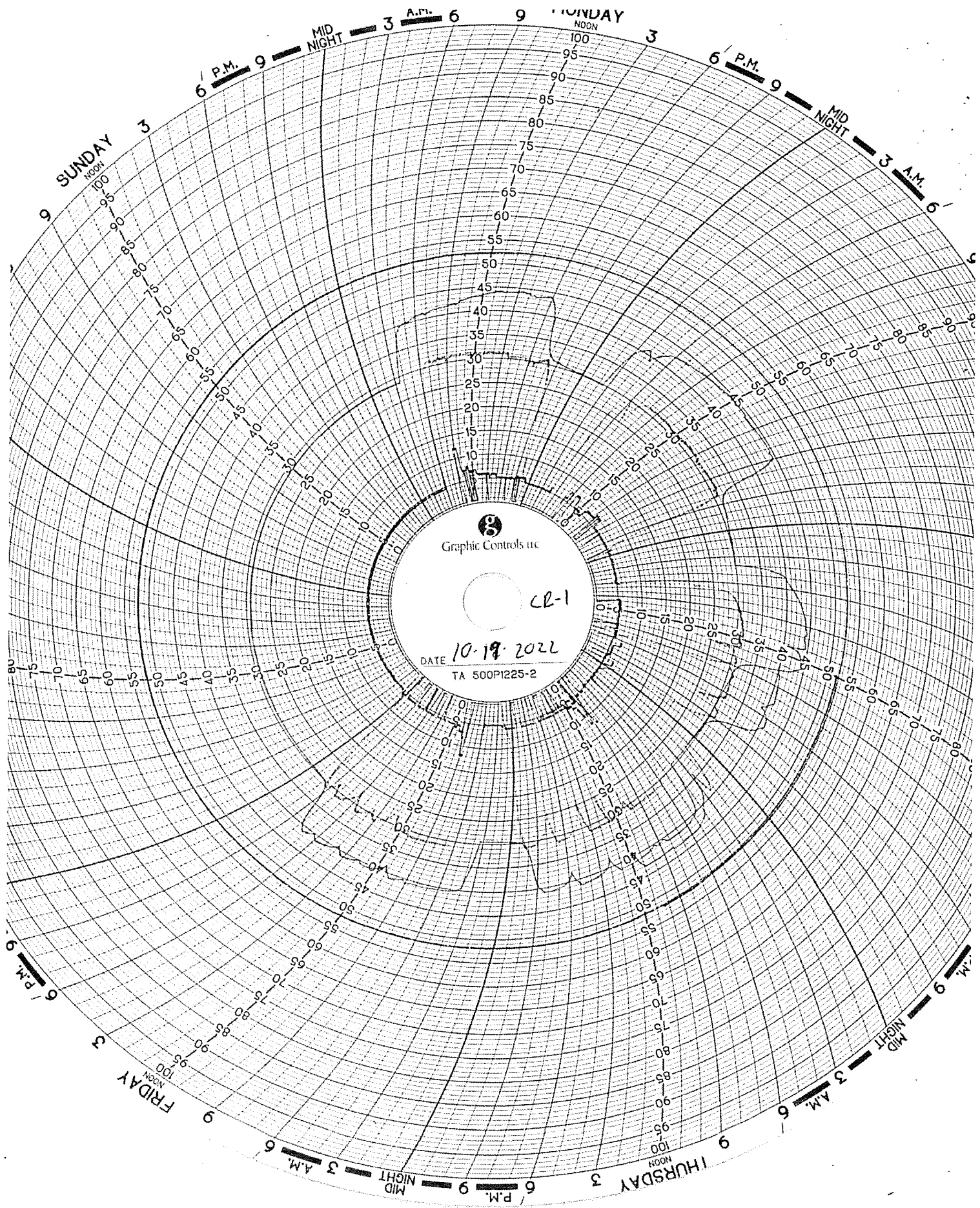
6 P.M. 9
MID NIGHT 3
A.M. 6

6 P.M. 9
MID NIGHT 3
A.M. 6

6 P.M. 9
MID NIGHT

6 P.M. 9
MID NIGHT 3
A.M. 6

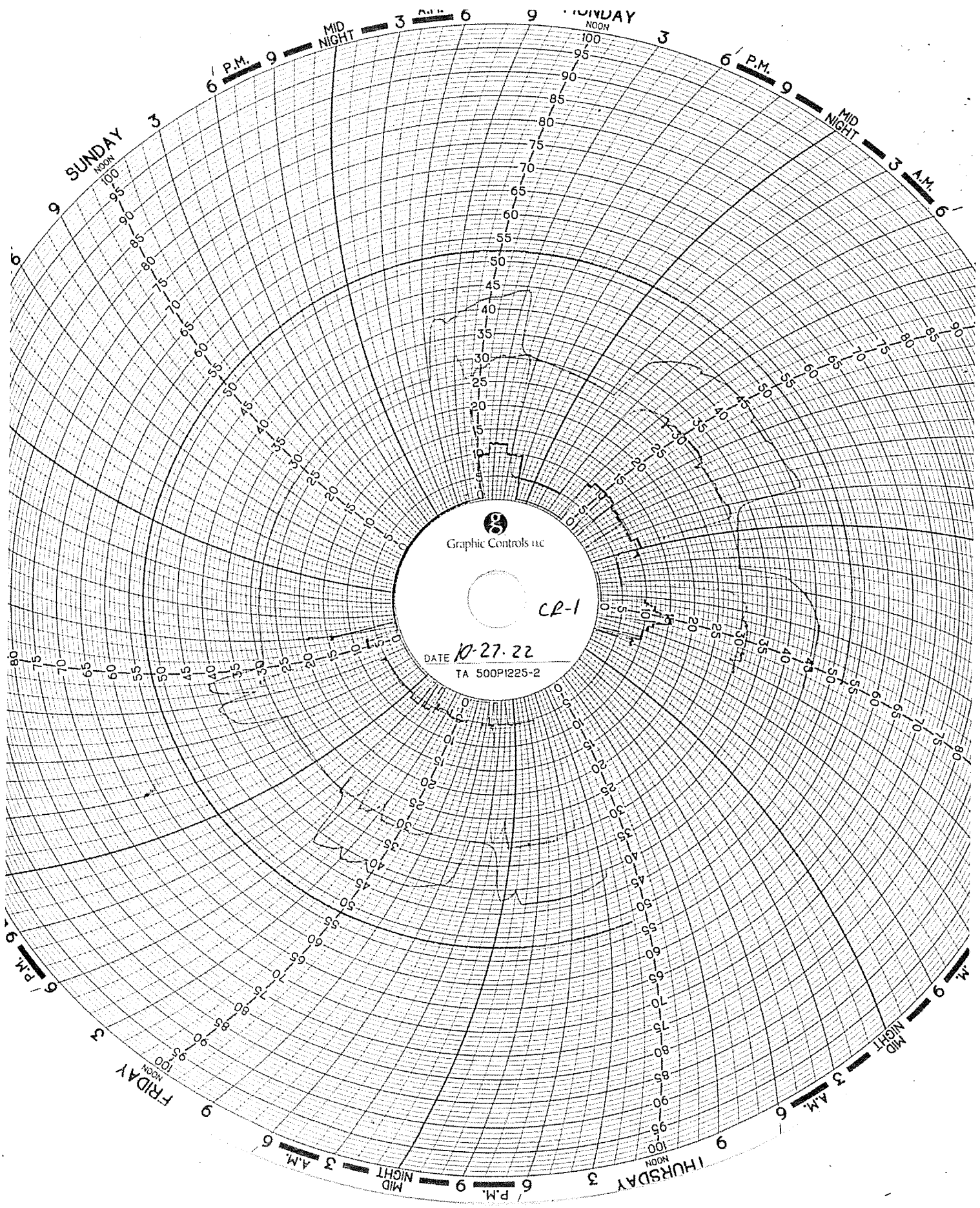
6 P.M. 9
MID NIGHT 3
A.M. 6



Graphic Controls Inc

CR-1

DATE 10-19-2022
TA 500PI225-2



Graphic Controls Inc.

CR-1

DATE 10-27-22
TA 500PI225-2

WELL 2 DATA



Injection Well 2, October 2022

	Injection Pressure (psig)		Annulus Tank Level (inch)		Annulus Pressure (psig)		Injection pH		Flow Rate (gpm)		Differential Pressure (psig)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
10/1/2022	116.0	145.3	31.4	31.5	1013.9	1020.2	7.1	7.6	0.0	0.0	874.7	898.2
10/2/2022	112.5	116.6	31.5	31.5	1012.2	1014.3	7.0	7.1	0.0	0.0	897.3	900.0
10/3/2022	111.5	940.4	31.4	31.5	1011.3	1,461.6	2.8	8.2	0.0	52.9	436.6	900.1
10/4/2022	142.2	951.1	31.4	31.6	1035.4	1,505.6	2.4	7.9	0.0	53.5	437.7	924.4
10/5/2022	48.0	952.4	31.5	31.7	1,060.2	1,599.8	3.0	7.3	0.0	52.3	515.6	981.4
10/6/2022	121.9	953.8	31.6	31.7	1108.3	1,696.4	2.8	8.1	0.0	53.3	540.3	985.2
10/7/2022	105.7	943.8	31.5	31.7	1,140.4	1,562.8	2.9	7.7	0.0	52.3	496.4	1141.1
10/8/2022	26.1	951.3	31.4	31.5	1,044.0	1,451.2	0.9	7.8	0.0	80.8	502.6	1293.6
10/9/2022	16.9	26.5	31.4	31.5	1,024.1	1,044.3	2.4	2.5	0.0	0.0	1006.8	1018.1
10/10/2022	15.7	948.3	31.4	31.6	1,019.5	1,462.5	2.0	10.1	0.0	85.7	439.7	1007.5
10/11/2022	89.4	942.8	31.5	31.6	1,029.6	1,433.2	2.8	8.7	0.0	53.5	447.0	1021.0
10/12/2022	81.9	935.3	31.6	31.6	1,006.8	1,371.4	2.6	7.3	0.0	42.6	434.9	980.7
10/13/2022	100.7	909.2	31.5	31.6	1,004.7	1,349.1	2.8	8.1	0.0	33.2	432.9	895.3
10/14/2022	65.8	889.5	31.4	31.5	995.9	1,323.8	4.8	7.5	0.0	32.2	430.1	924.9
10/15/2022	115.2	123.6	31.4	31.4	995.5	999.7	7.1	7.4	0.0	0.0	875.7	880.8
10/16/2022	110.9	115.7	31.4	31.4	992.7	995.9	7.4	7.4	0.0	0.0	879.9	882.2
10/17/2022	103.4	922.2	31.4	31.4	961.7	1,284.9	6.2	8.7	0.0	42.9	363.9	883.3
10/18/2022	98.1	922.7	31.3	31.4	970.3	1,307.0	4.0	9.8	0.0	42.8	380.6	884.9
10/19/2022	113.2	939.7	31.3	31.4	973.9	1,369.2	5.4	8.2	0.0	42.8	401.9	870.5
10/20/2022	126.0	943.4	31.3	31.4	996.5	1,369.3	2.9	8.0	0.0	53.6	412.4	878.8
10/21/2022	129.3	946.3	31.3	31.5	1002.4	1,371.9	2.8	8.1	0.0	53.9	396.7	869.3
10/22/2022	136.9	184.6	31.4	31.5	993.5	1,026.2	7.0	7.6	0.0	0.0	841.5	856.9
10/23/2022	128.4	137.5	31.4	31.5	988.3	993.8	6.5	7.4	0.0	0.0	856.2	860.1
10/24/2022	112.3	949.1	31.4	31.7	987.3	1,500.5	2.7	8.1	0.0	53.9	413.8	915.1
10/25/2022	135.1	948.3	31.6	31.7	1032.4	1512.1	2.6	8.0	0.0	43.0	500.9	928.7
10/26/2022	150.4	939.4	31.6	31.7	1040.0	1512.9	3.0	7.6	0.0	38.2	512.7	939.7
10/27/2022	135.2	950.1	31.5	31.6	1033.2	1491.9	2.9	7.2	0.0	53.6	503.4	908.0
10/28/2022	124.6	940.0	31.5	31.6	1070.5	1486.6	2.7	10.6	0.0	35.6	502.9	942.8
10/29/2022	-4.7	943.9	31.4	31.5	1012.2	1421.0	1.0	7.8	0.0	74.6	458.5	1097.6
10/30/2022	-4.7	-2.8	31.4	31.5	991.8	1012.3	2.4	2.4	0.0	0.0	994.8	1016.9
10/31/2022	-3.7	1342.8	31.4	31.6	987.2	1516.2	2.4	7.4	0.0	63.8	-348.2	995.5

Well 2 Data Comments

On 10/31/22, at 8:48 AM, the injection pump was started. The wing valve between the injection flow line and well tree was closed. This resulted in a high reading on the injection pressure gauge situated on the well tree. The injection pump ran less than 30 seconds before it was shut off. This did not result in any equipment failure or waste release.

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

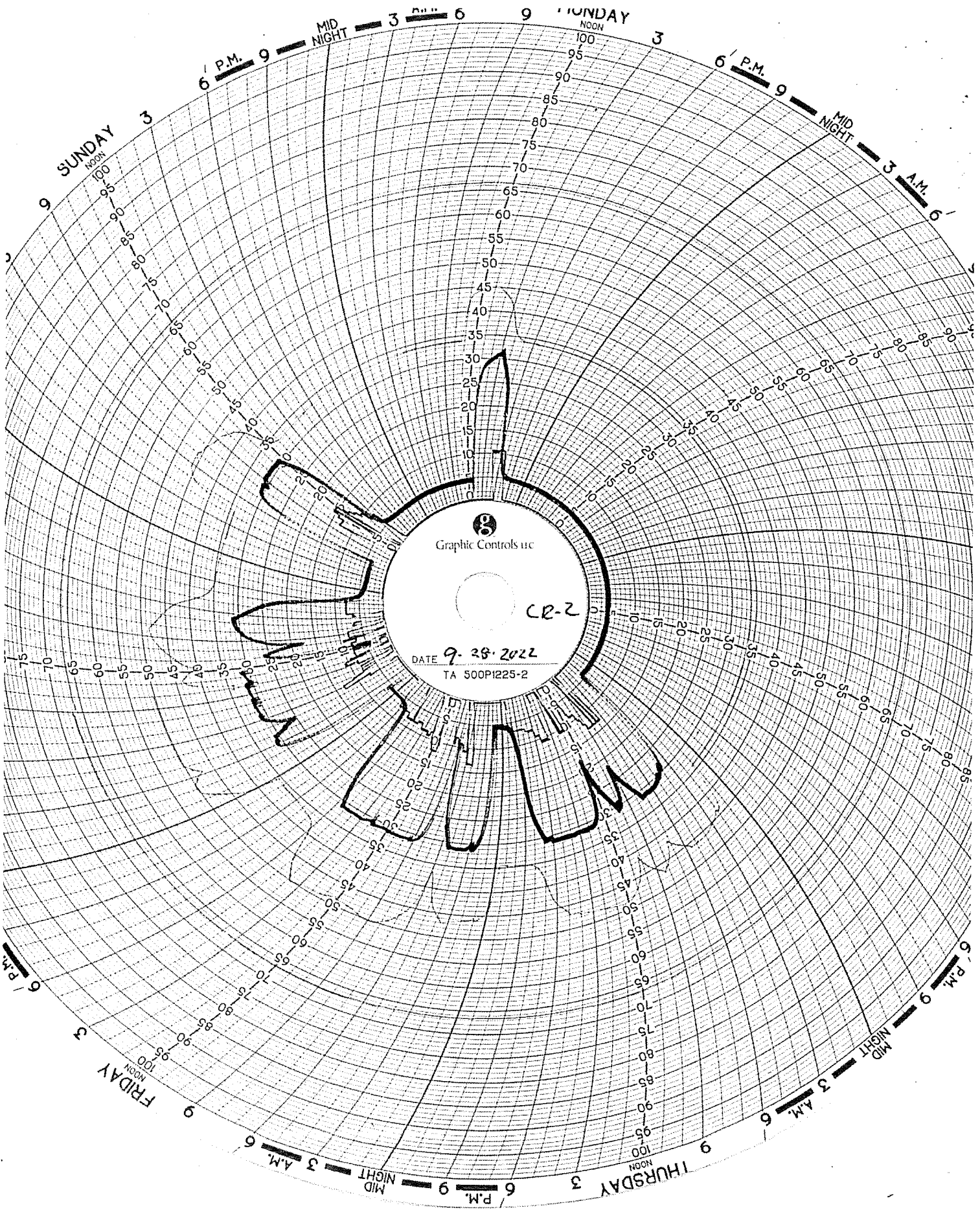
Red Pen - Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

Channel #4

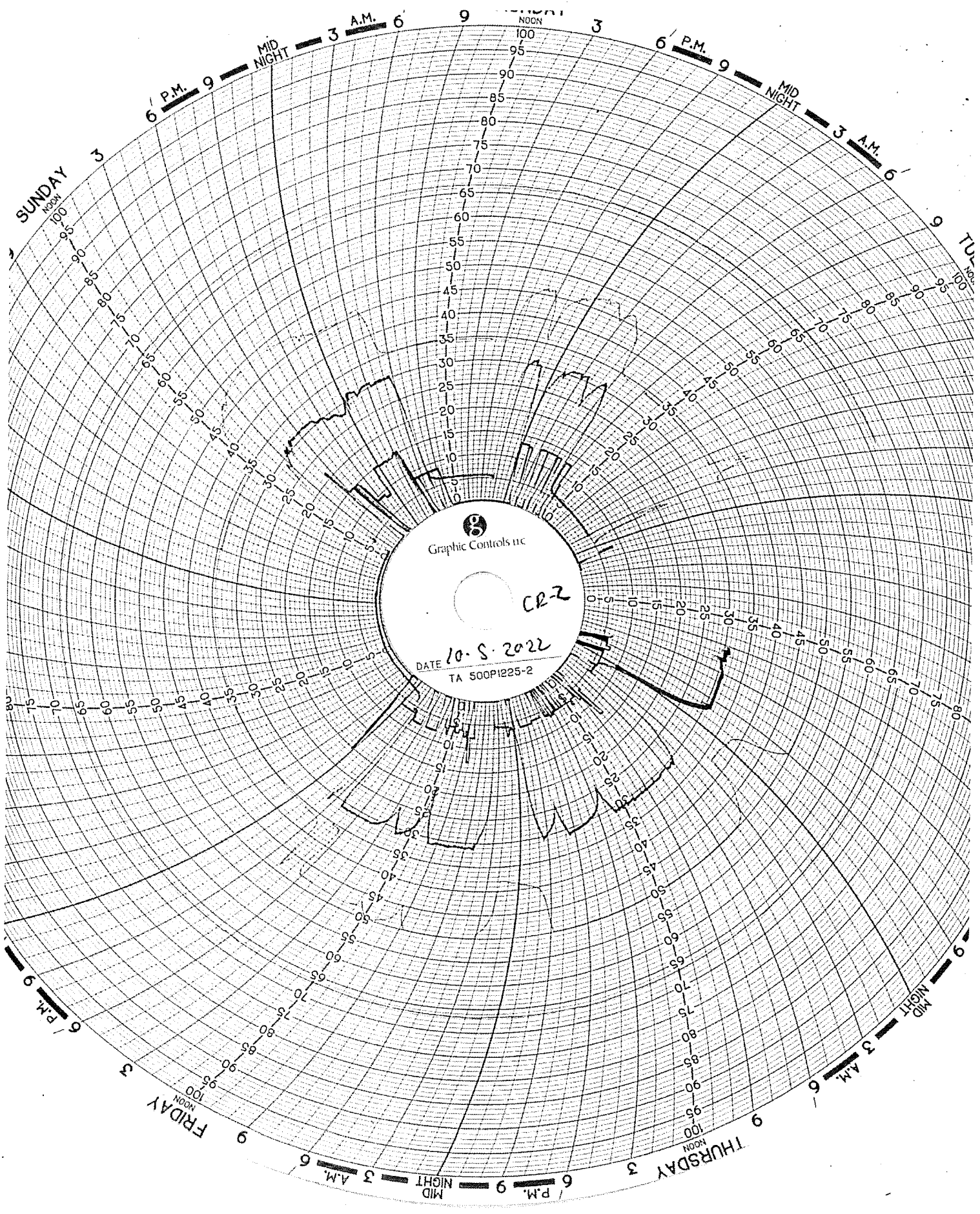
Black Pen - Temperature (chart value x 0)




Graphic Controls LLC

CR-2

DATE 9-28-2022
TA 500P1225-2

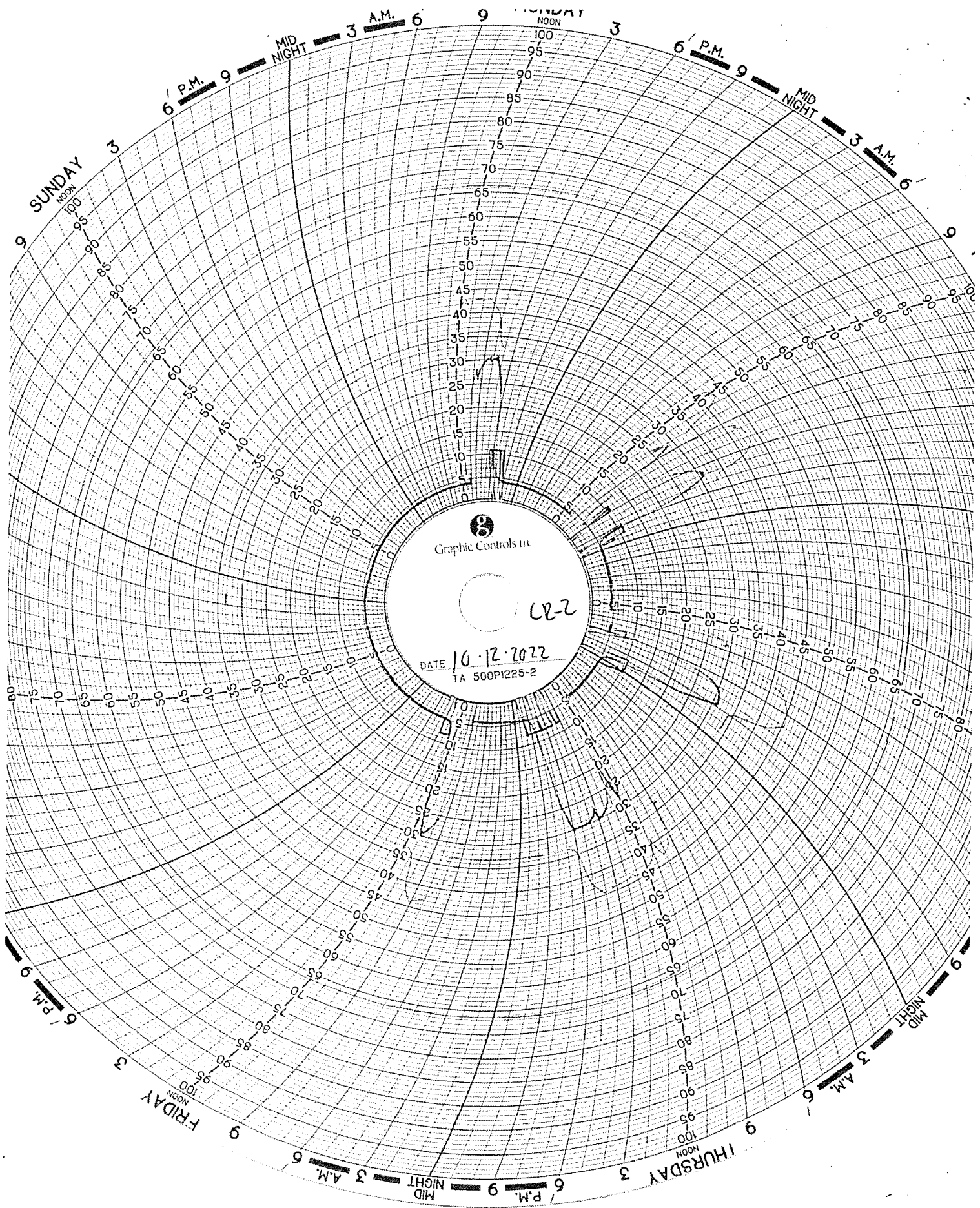


Graphic Controls Inc

CR-2

DATE 10-8-2022

TA 500P1225-2



Graphic Controls Inc

DATE 10.12.2022
TA 500P1225-2

022

SUNDAY

MONDAY

THURSDAY

FRIDAY

THURSDAY

6 P.M. 9
MID NIGHT 3 A.M. 6

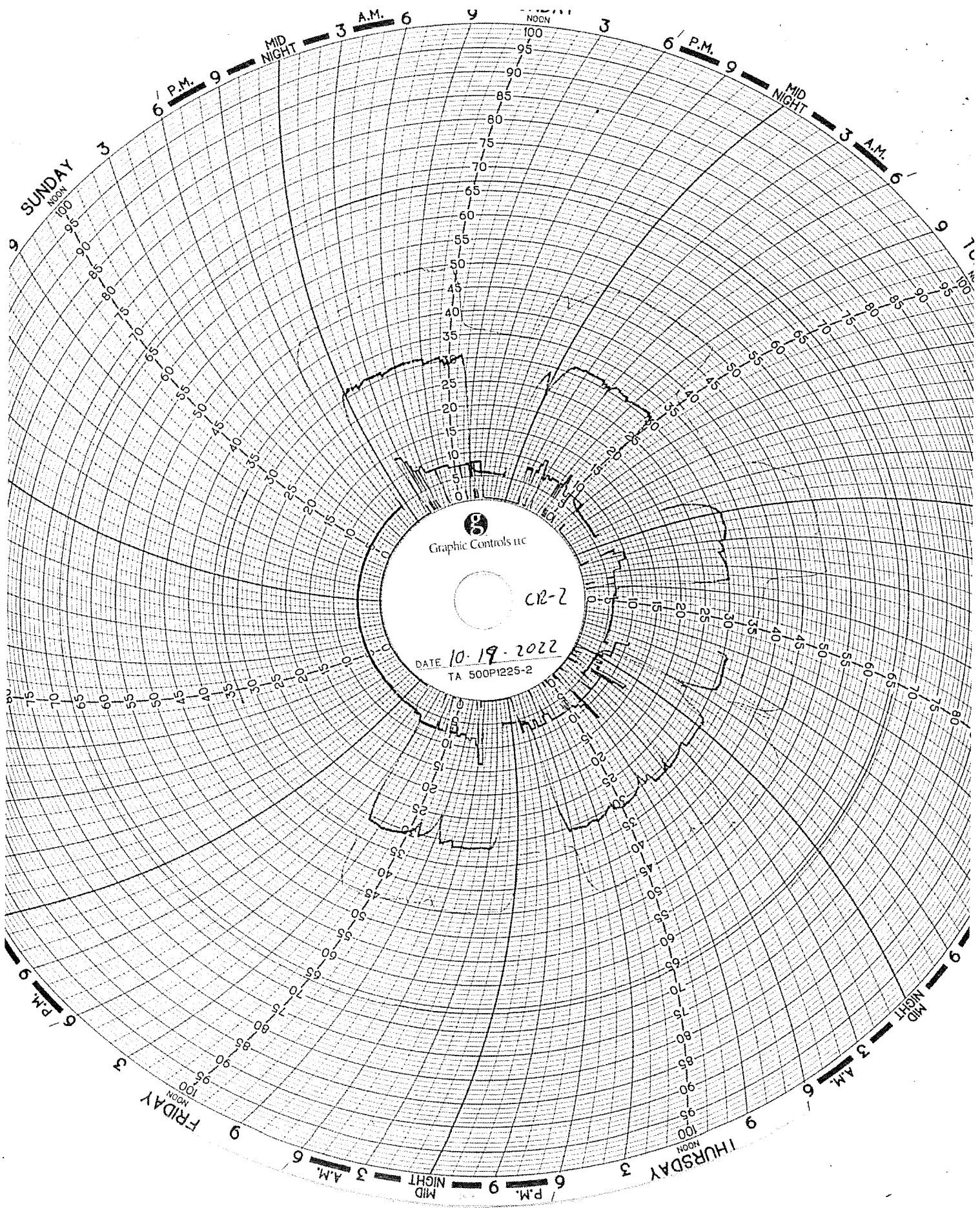
6 P.M. 9
MID NIGHT 3 A.M. 6

6 P.M. 9

6 P.M. 9

6 P.M. 9
MID NIGHT 3 A.M. 6

6 P.M. 9
MID NIGHT 3 A.M. 6



Graphic Controls LLC

C12-2

DATE 10-19-2022
TA 500P1225-2

SUNDAY
NOON 100

6 P.M. 9
MID NIGHT

3 A.M. 6

NOON 100

6 P.M. 9
MID NIGHT

3 A.M. 6

NOON 100

FRIDAY
NOON 100

3 A.M. 6
MID NIGHT

NOON 100

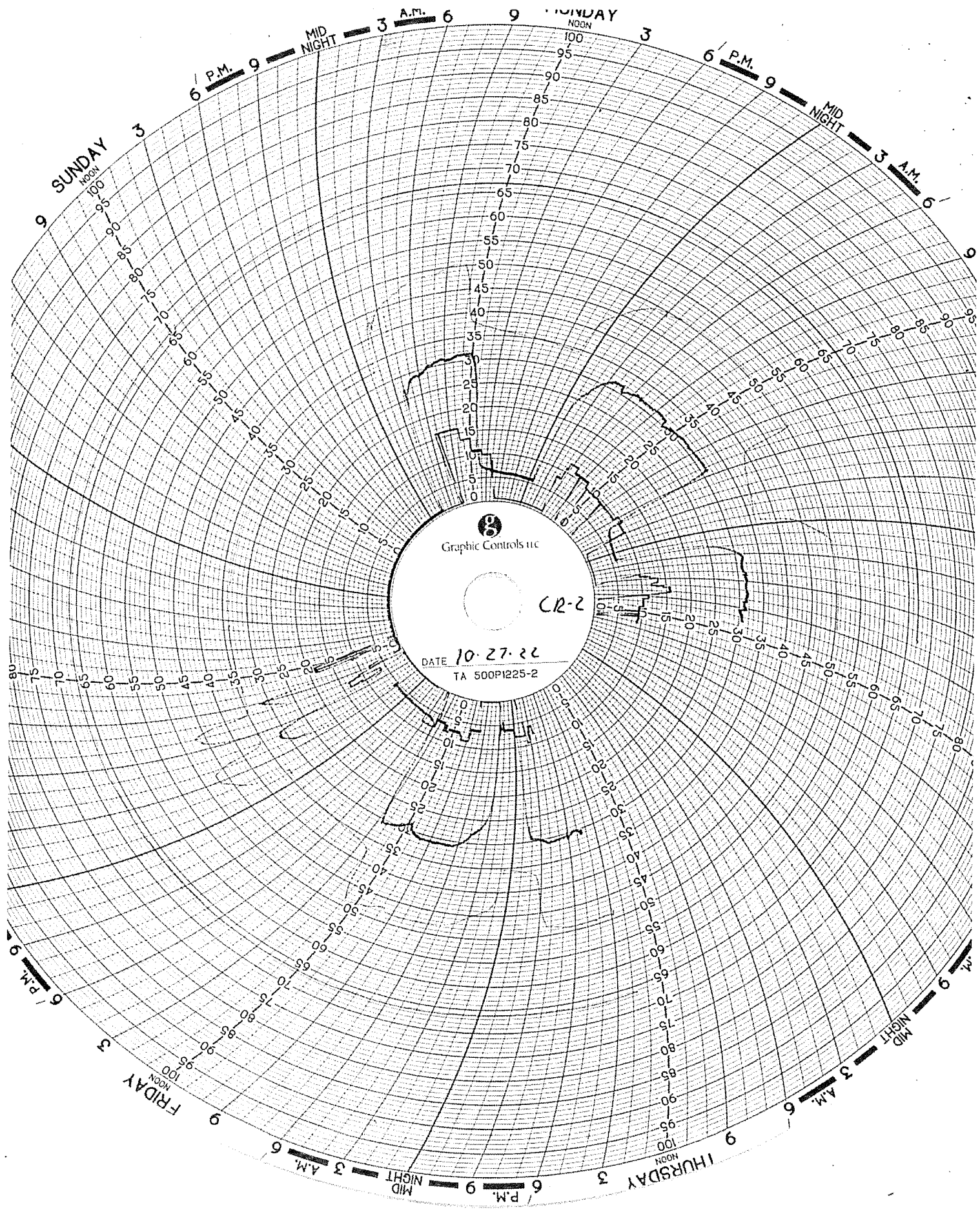
6 P.M. 9
MID NIGHT

THURSDAY
NOON 100

3 A.M. 6

MID NIGHT

NOON 100



Graphic Controls Inc
CR-2
DATE 10-27-22
TA 500P1225-2

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

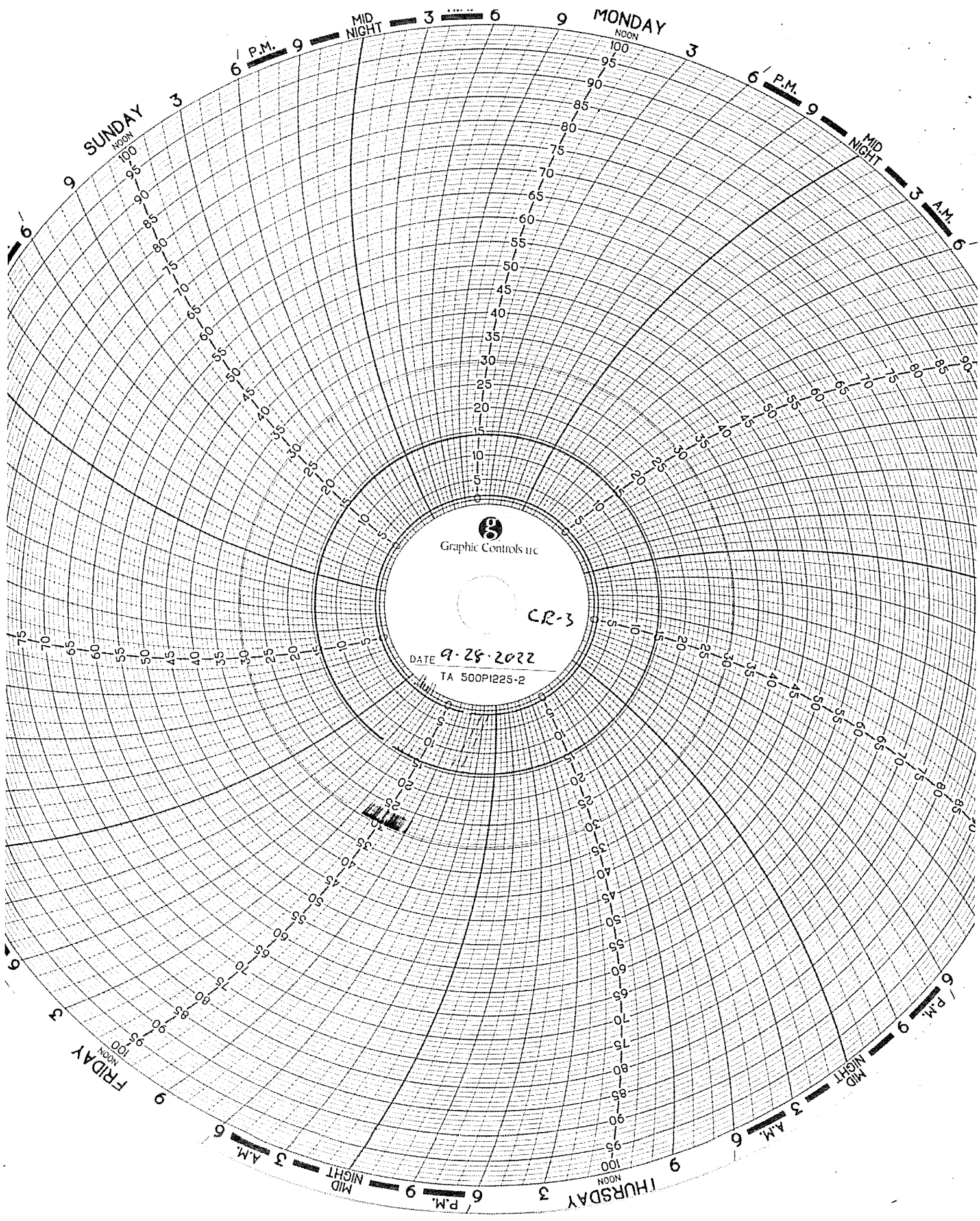
Red Pen – Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

Channel #4

Black Pen – Temperature (chart value x 0)

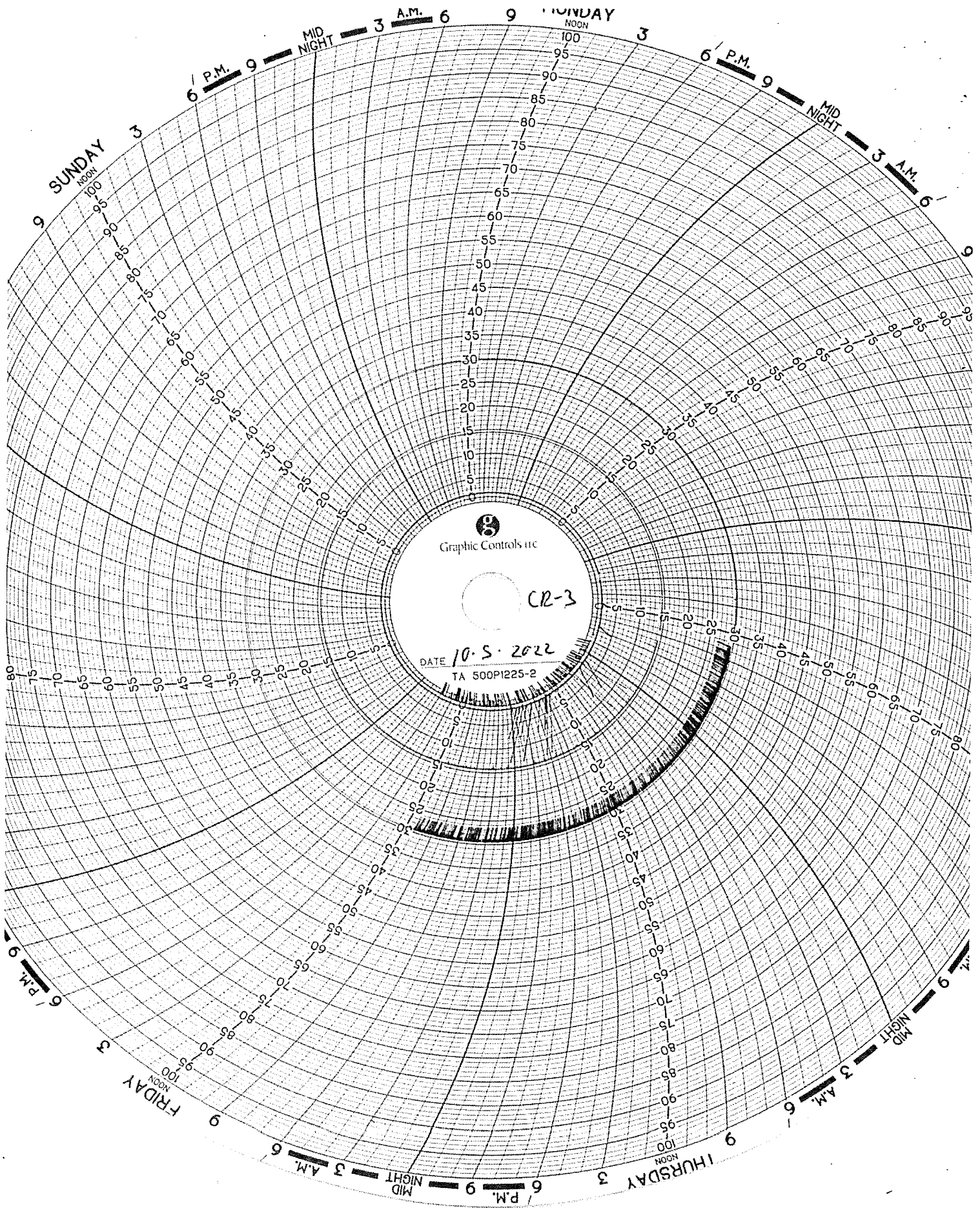


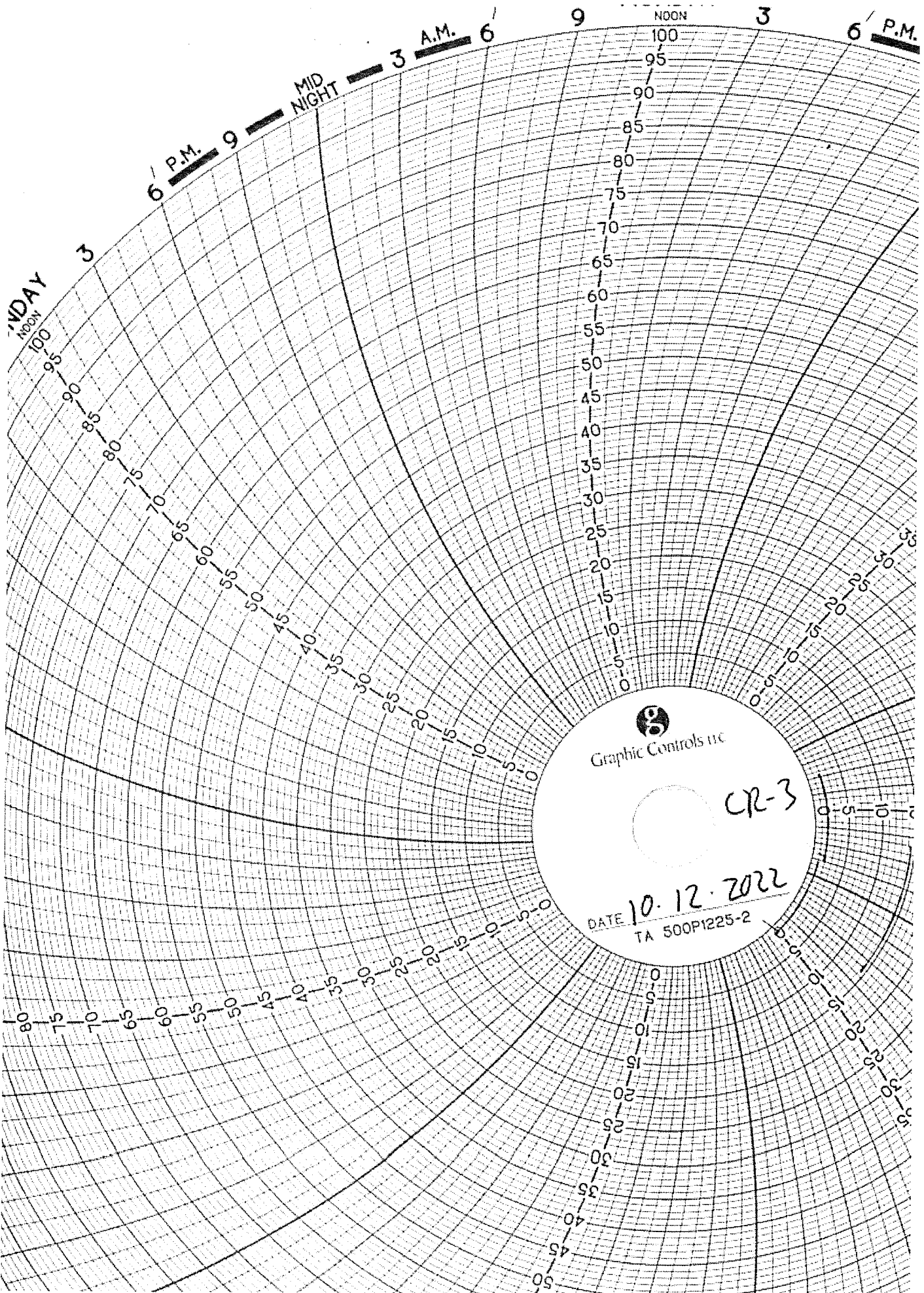
Graphic Controls LLC

CR-3

DATE 9-28-2022

TA 500P1225-2





MONDAY
NOON

6 P.M.

MID
NIGHT

3 A.M.

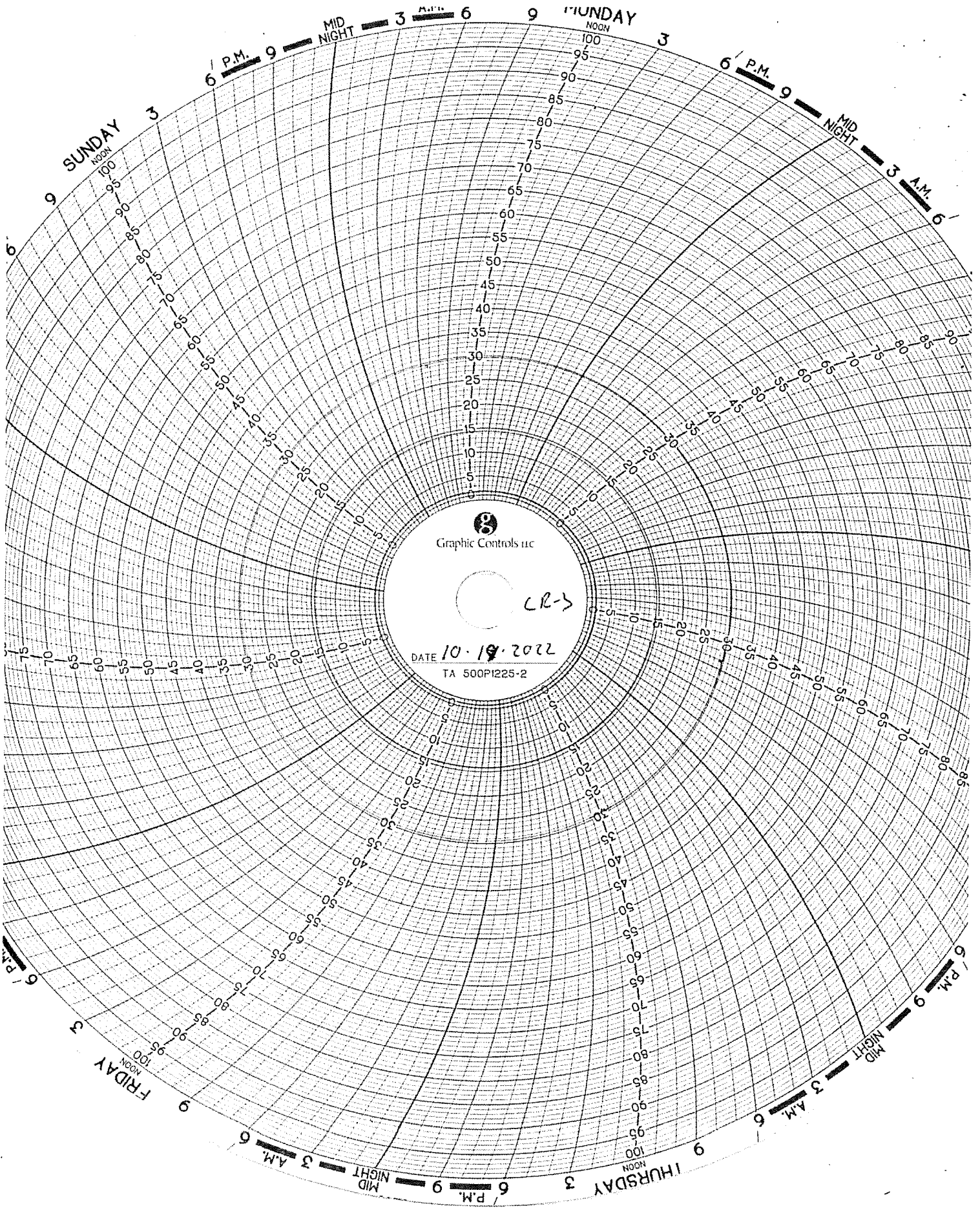
NOON

6 P.M.

Graphic Controls Inc

CR-3

DATE 10.12.2022
TA 500P1225-2

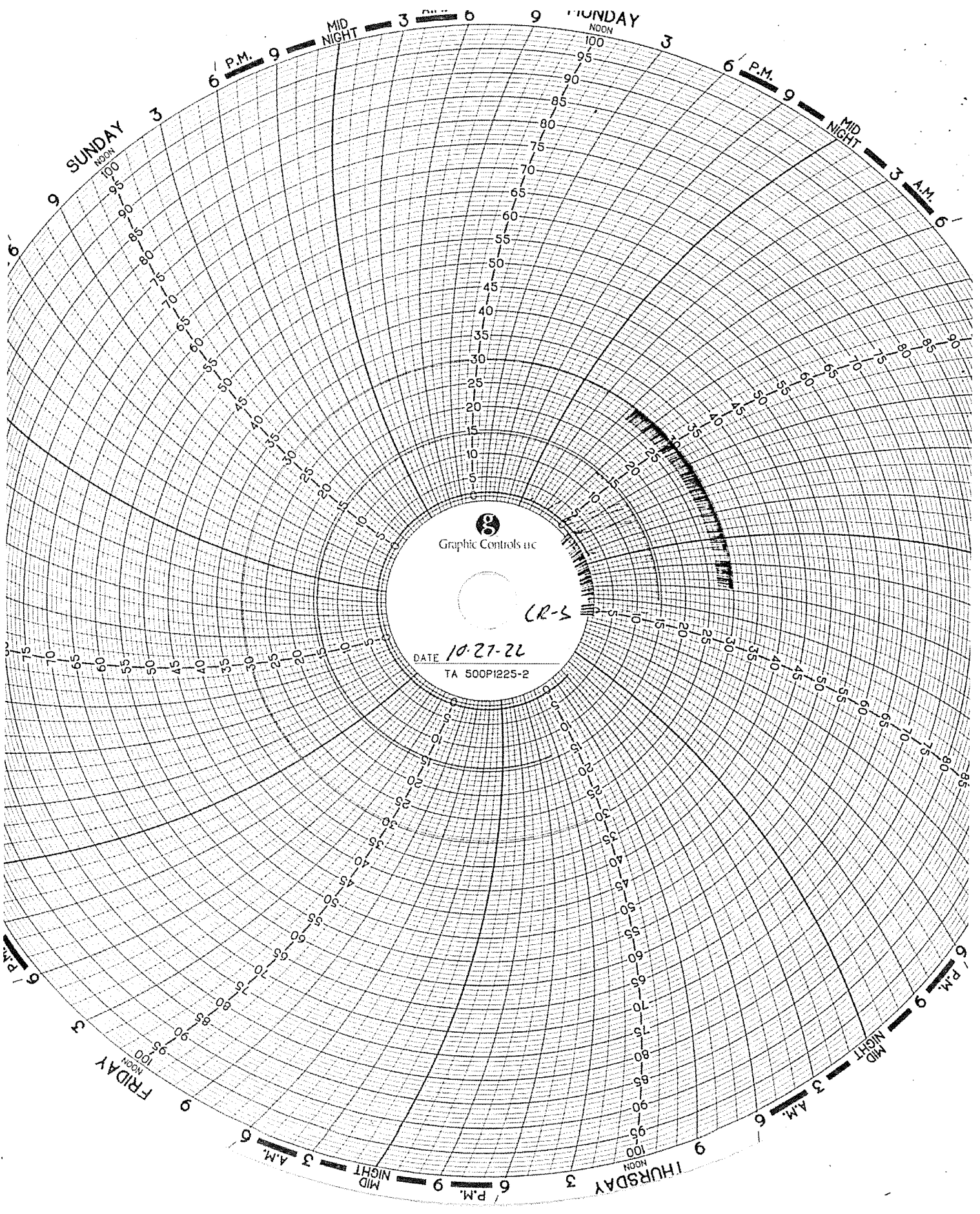


Graphic Controls LLC

CR-3

DATE 10-19-2022

TA 500P1225-2



Graphic Controls Inc

DATE 10-27-22
TA 500P1225-2

CR-3

CORROSION MONITORING

CORROSION MONITORING PLAN
COUPON SUMMARY

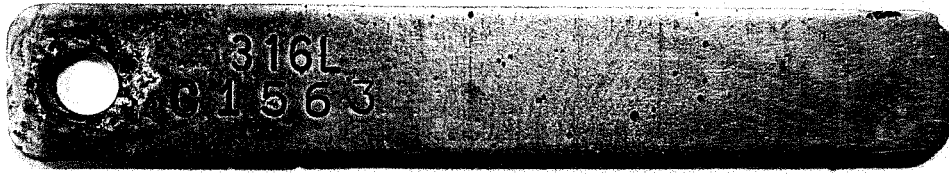
Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Redbox)	
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 g	7.196 g	
7/11/2014	13.323 g	10.304 g	7.196 g	
8/12/2014	13.328 g	10.045 g	7.182 g	
9/17/2014	13.321 g	9.997 g	7.090 g	
10/30/2014	13.321 g	9.387 g	7.075 g	
11/21/2014	13.320 g	9.386 g	7.069 g	
12/19/2014	13.321 g	9.315 g	7.084 g	
1/12/2015	13.321 g	9.289 g	7.063 g	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	
5/31/2015	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	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		
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	13.325 g	10.855 g	18.029 g		
7/12/2018	13.326 g	10.852 g	18.032 g		
8/21/2018	13.326 g	10.854 g	18.031 g		
9/14/2018	13.326 g	10.852 g	18.036 g		
10/10/2018	13.326 g	10.851 g	18.031 g		
11/20/2018	13.326 g	10.853 g	18.032 g		
12/11/2018	13.326 g	10.852 g	18.033 g		
1/14/2019	13.326 g	10.852 g	18.033 g		
2/20/2019	13.326 g	10.850 g	18.033 g		
3/15/2019	13.326 g	10.850 g	18.033 g		
4/10/2019	13.326 g	10.848 g	18.031 g		
5/17/2019	13.326 g	10.849 g	18.036 g		
6/5/2019	13.326 g	10.848 g	18.031 g		
7/8/2019	13.326 g	10.845 g	18.032 g		
8/12/2019	13.326 g	10.845 g	18.032 g		
9/8/2019	13.326 g	10.842 g	18.029 g		
10/17/2019	13.326 g	10.842 g	18.030 g		
11/20/2019	13.326 g	10.842 g	18.030 g		
12/11/2019	13.326 g	10.842 g	18.030 g		
1/16/2020	13.326 g	10.840 g	18.033 g		
2/6/2020	13.326 g	10.836 g	18.034 g		
3/3/2020	13.326 g	10.842 g	18.034 g		Well 1 workover new well
4/9/2020	13.328 g	10.839 g	18.037 g		
5/12/2020	13.322 g	10.830 g	18.035 g		
6/16/2020	13.316 g	10.771 g	18.009 g		
7/16/2020	13.308 g	10.560 g	17.843 g		
8/25/2020	13.310 g	10.214 g	17.773 g		
9/24/2020	13.289 g	9.796 g	17.656 g		
10/19/2020	13.282g	9.737g	17.621g		
11/5/2020	13.280g	9.728g	17.600g		
12/3/2020	13.281g	9.730g	17.689g		
2/10/2021	13.284g	9.728g	17.683g		
3/9/2021	13.290g	9.733g	17.585g		
4/13/2021	13.288g	9.730g	17.649g		
5/18/2021	13.282g	9.691g	17.543g		
6/17/2021	13.279g	9.639g	17.546g		
7/19/2021	13.278g	9.480g	17.507g		
8/3/2021	13.278g	9.437g	17.467g		
9/14/2021	13.277g	9.392g	17.467g		
10/11/2021	13.277g	9.359g	17.465g		
11/3/2021	13.277g	9.350g	17.273g		
12/15/2021	13.276g	9.351g	17.256g		
1/17/2022	13.276g	9.351g	17.256g		
2/15/2022	13.276g	9.347g	16.965g		
3/18/2022	13.281g	9.368g	17.246g		

CORROSION MONITORING PLAN
COUPON SUMMARY

4/18/2022	13.275	9.339	16.656
5/16/2022	13.298	9.328	16.600
6/15/2022	13.276	9.300	16.219
7/20/2022	13.303	9.324	16.393
8/17/2022	13.277	9.195	15.841
9/9/2022	13.276	9.171	15.757
10/19/2022	13.274	9.157	15.623



316L / C1563

Weight: 9.157

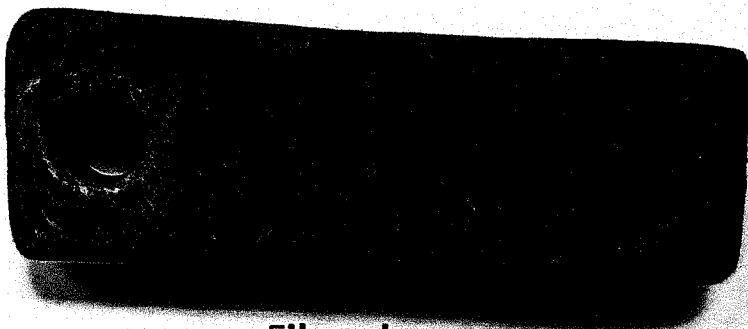
Date: 10/19/2022



C276 / 5

Weight: 13.274

Date: 10/19/2022



Fiberglass

Weight: 15.623

Date: 10/19/2022

COOROSION MONITORING COUPONS VISUAL DESCRIPTION

October 2022

Fiberglass Coupon

The coupon is grey in color on both sides. Its cut edges appear sanded. The coupon is free of cracks, pitting, swelling, blemishes. There is corrosion and apparent exposed fiberglass on both sides of this coupon. There has been no obvious change in appearance to this coupon since last month.

Hastelloy Coupon

This coupon is identified as: C276 / 5. The coupon is silver in color with a lightly sandblasted texture. It is clean and free of pits, cracks, and blemishes. There is no effect to this coupon.

Stainless Steel Coupon

This coupon is identified as: Serial Number: C1563 / 316L. There has been no change to this coupon since last month. It is clean with a small amount of pitting.

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.



Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

• TEST REPORT •

PN 125322
PO 00154

PLASTICS TESTING DEPARTMENT

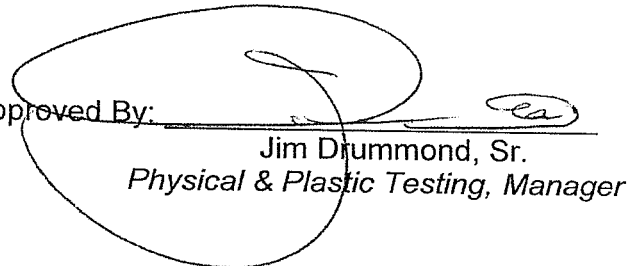
Prepared For:

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

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

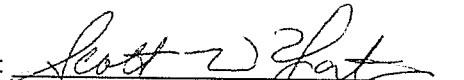
96

Prepared By:


Melissa Martin
Sr. Project Technician

tc

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 041916

Approved By:

Jim Drummond
Physical Testing, Manager



An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02
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 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.

December 13, 2017

TEST REPORT

PN 139140

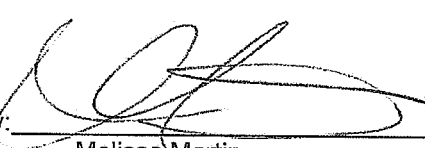
PO#

PLASTIC TESTING DEPARTMENT

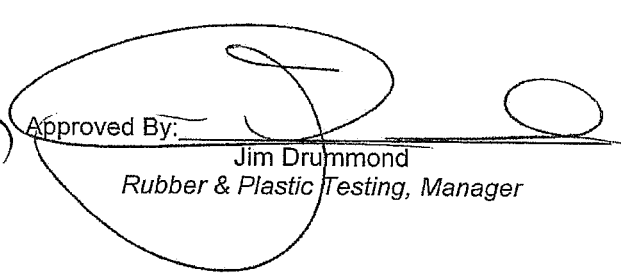
Prepared For:

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 041916



An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02
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 referenced certificates.



AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

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

sc

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.

Ghesquiere Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

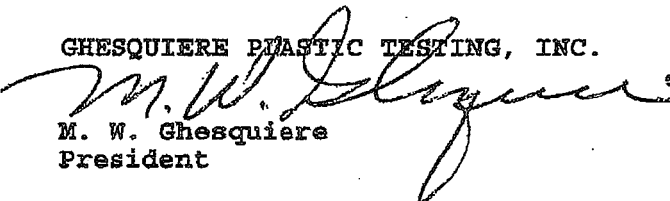
BARCOL HARDNESS

Hardness

Specimen 1	90
------------	----

Specimen is being returned with this report for further evaluation.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/kni

Ghesquiere Plastic Testing, Inc.

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

Report Date: February 17, 2014
Test Date: February 14 - 17, 2014

Report #1402-78036
Performed for:
Environmental Geo-Technologies
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

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

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

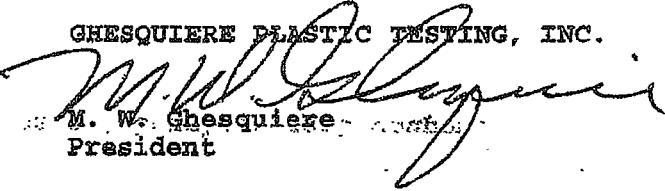
BARCOL HARDNESS

Hardness

Specimen 1: 90

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

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm

Ghesquiere Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

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

WORK PERFORMED:

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

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

RESULTS:

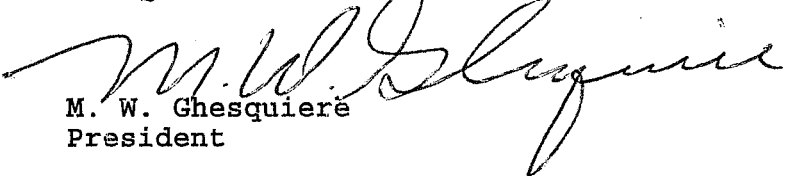
The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm



Testing. Development. Problem Solving.

October 2, 2014

• TEST REPORT •

PN 118325

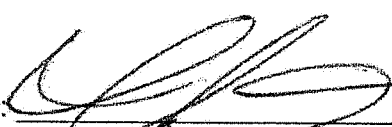
PO Attn: John Frost

PLASTICS TESTING DEPARTMENT

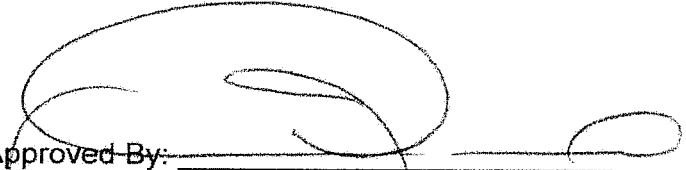
Prepared For:

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

Prepared By:


Melissa Martin
Sr. Project Technician

Approved By:


Jim Drummond
Physical & Plastics Testing, Manager



*Certificate Numbers 255.01 & 255.02

An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02
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 | 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

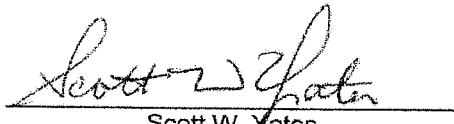
Prepared By:



Melissa Martin
Sr. Project Technician

st

Approved By:



Scott W. Yates
Plastics Testing Assistant Manager

BARCOL HARDNESS REPORT

Customer: Republic Industrial and Energy Solutions, LLC

Component Tested: Test Coupon

PO Number: 9575553 **Job Number:** 3415

Calibration: **Disc:** 43 - 48 **Actual Reading:** 45

Barcol Readings	1	2	3	Average
Side One:	62	63	58	61
Side Two:	58	60	57	58
Overall Average:				60

Tested By:



(signature)

Gary Nicholson
(print or type name)

Date: 01/12/2021

BARCOL HARDNESS REPORT

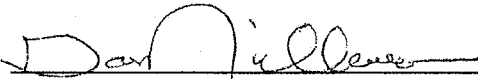
Customer: Republic Industrial and Energy Solutions, LLC

Component Tested: Test Coupon

PO Number: 10159792 **Job Number:** 3556

Calibration: **Disc:** 43 - 48 **Actual Reading:** 45

Barcol Readings	1	2	3	Average
Side One:	56	60	60	59
Side Two:	60	62	62	61
Overall Average:				60

Tested By: 
(signature)

Gary Nicholson **Date:** 10/11/2021
(print or type name)

BARCOL HARDNESS REPORT

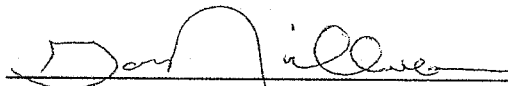
Customer: Republic Industrial and Energy Solutions

Component Tested: Fiberglass Coupon

PO Number: Credit Card **Job Number:** 3734

Calibration: **Disc:** 43 - 48 **Actual Reading:** 45

Barcol Readings	1	2	3	Average
Side One:	55	50	58	54
Side Two:	53	56	59	56
	Overall Average:			55

Tested By: 
(signature)

Gary Nicholson **Date:** 08/23/2022
(print or type name)

MAINTENANCE

UIC Monthly Maintenance Log

No Maintenance this month

INJECTION FINGERPRINTS

RECEIVING & APPROVAL FORM

51-1

RECEIVING INFORMATION	
Date	10 / 3 / 22
Receiving ID#	F10032202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TL

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.75
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.0
Conductivity	4.22
% Solids	0.5
Turbidity	Yes No
Color	
TSS (%)	0.5
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 03 / 22
Receiving ID#	10032202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.93
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.1
Conductivity	4.88ms
% Solids	20.1
Turbidity	Yes No
Color	
TSS (%)	4.0
Radiation Screen (as needed)	
Lab Signature/Initials	J.M.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 4 / 22
Receiving ID#	E10042201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.
Sampled by	J.T.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.09
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.1
Conductivity	8.58 mS
% Solids	0.34
Turbidity	Yes No
Color	
TSS (%)	LOU
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 04 / 22
Receiving ID#	110042202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>J.P.</i>
Sampled by	<i>J.P.</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	7.04
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	21.4
Conductivity	2.74
% Solids	2.01
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J.P.</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 4 / 22
Receiving ID#	210042203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.45
Cyanides? (mg/L)	< 30
Sulfides? (ppm)?	< 200
Specific Gravity	1.01
Physical Description	LIQUID
Stream Consistency	(Yes) No
Oil in Sample?	Yes (No)
Temperature (F)	69.4
Conductivity	5.95
% Solids	55.90
Turbidity	Yes (No)
Color	CLEAR
TSS (%)	< 0.1
Radiation Screen (as needed)	NEG
Lab Signature/Initials	JT

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 5 / 22
Receiving ID#	Z1085-2201
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>

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.46
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.01
Physical Description	LIQUID
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77.6
Conductivity	2.92
% Solids	.15%
Turbidity	Yes No
Color	CLEAR
TSS (%)	<0.1
Radiation Screen (as needed)	N/C
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 05 / 22
Receiving ID#	I10052202
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>

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.92
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.00
Physical Description	LIQUID
Stream Consistency	Yes No
Oil in Sample?	Yes (No)
Temperature (F)	72.6
Conductivity	3.24 3.24
% Solids	
Turbidity	Yes (No)
Color	CLEAR
TSS (%)	
Radiation Screen (as needed)	NEG
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/05/22
Receiving ID#	I10052205
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.74
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.7
Conductivity	3.30 mS
% Solids	0.25
Turbidity	Yes No
Color	
TSS (%)	0.25
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 6 / 22
Receiving ID#	IL10002201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.S.
Sampled by	J.M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	5.09
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.4
Conductivity	2.81 us
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.S.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/04/22
Receiving ID#	110062202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TG

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	5.63
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	25.5
Conductivity	2.83
% Solids	LOJ
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 10 6 122
Receiving ID#	210062203
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>
LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	5.90
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.00
Physical Description	LIQUID
Stream Consistency	Yes No
Oil in Sample?	Yes (No)
Temperature (F)	69.5
Conductivity	3.35
% Solids	.427
Turbidity	Yes (No)
Color	CLEAR
TSS (%)	<0.1
Radiation Screen (as needed)	NEG
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	/ / 22
Receiving ID#	10072201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JM DJ
Sampled by	JM DJ
LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140°F
pH (S.U.)	5.97
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.00
Physical Description	LIQUID
Stream Consistency	(Yes) No
Oil in Sample?	Yes (No)
Temperature (F)	70
Conductivity	2.41
% Solids	
Turbidity	Yes (No)
Color	CLEAR
TSS (%)	<0.1
Radiation Screen (as needed)	NGG
Lab Signature/Initials	JM DJ

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 17 / 22
Receiving ID#	R10072207
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>

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.30
Cyanides? (mg/L)	< 30
Sulfides? (ppm)?	< 200
Specific Gravity	1.01
Physical Description	LIQUID
Stream Consistency	<input checked="" type="radio"/> Yes <input type="radio"/> No
Oil in Sample?	Yes <input checked="" type="radio"/> No
Temperature (F)	70°
Conductivity	3.13
% Solids	.30%
Turbidity	Yes <input checked="" type="radio"/> No
Color	CLEAR
TSS (%)	< 0.1
Radiation Screen (as needed)	NEG
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 7 / 22
Receiving ID#	I 100722 03
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	N/A
Flash Point (F)	>140
pH (S.U.)	6.60
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.00
Physical Description	LIQUID
Stream Consistency	<input checked="" type="radio"/> Yes <input type="radio"/> No
Oil in Sample?	Yes <input type="radio"/> <input checked="" type="radio"/> No
Temperature (F)	69.4
Conductivity	3.18
% Solids	.5490
Turbidity	Yes <input type="radio"/> <input checked="" type="radio"/> No
Color	CLEAR
TSS (%)	<0.1
Radiation Screen (as needed)	NONE
Lab Signature/Initials	JF

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 10 / 22
Receiving ID#	110102201
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>

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	N/A
Flash Point (F)	> 140
pH (S.U.)	6.32
Cyanides? (mg/L)	< 30
Sulfides? (ppm)?	< 200
Specific Gravity	1.00
Physical Description	LIQUID
Stream Consistency	(Yes) No
Oil in Sample?	Yes (No)
Temperature (F)	69.5
Conductivity	10.65
% Solids	2.09
Turbidity	Yes (No)
Color	CLEAR
TSS (%)	< 0.1
Radiation Screen (as needed)	NGL
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 10 / 22
Receiving ID#	I10102202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	<input checked="" type="checkbox"/>
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	N/A
Flash Point (F)	>140
pH (S.U.)	6.10
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.01
Physical Description	LIQUID
Stream Consistency	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Oil in Sample?	Yes <input checked="" type="checkbox"/> No
Temperature (F)	69.6
Conductivity	6.18
% Solids	1.60%
Turbidity	Yes <input checked="" type="checkbox"/> No
Color	CLEAR
TSS (%)	<0.1
Radiation Screen (as needed)	<u>0.66</u>
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 10 / 22
Receiving ID#	F10102203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	N/A
Flash Point (F)	>140
pH (S.U.)	4.59
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.05
Physical Description	LIQUID
Stream Consistency	Yes No
Oil in Sample?	Yes (No)
Temperature (F)	69.9
Conductivity	33.5
% Solids	3.30%
Turbidity	Yes (No)
Color	@ LT. BLACK
TSS (%)	<0.1
Radiation Screen (as needed)	NEG
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/10/22
Receiving ID#	I10102204
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>

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	N/A
Flash Point (F)	>140
pH (S.U.)	9.02
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.00
Physical Description	LIQUID
Stream Consistency	Yes No
Oil in Sample?	Yes (No)
Temperature (F)	70.0
Conductivity	4.67
% Solids	.32%
Turbidity	Yes (No)
Color	LT. BLACK
TSS (%)	0.1
Radiation Screen (as needed)	N66
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/10/22
Receiving ID#	I10102209
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>AW</i>
Sampled by	<i>AW</i>


LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	N/A
Flash Point (F)	>140
pH (S.U.)	6.66
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.00
Physical Description	LIQUID
Stream Consistency	(Yes) No
Oil in Sample?	Yes (No)
Temperature (F)	69.7
Conductivity	3.06
% Solids	.16%
Turbidity	Yes (No)
Color	CLEAR
TSS (%)	<0.1
Radiation Screen (as needed)	N/E
Lab Signature/Initials	<i>JF</i>


RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 11 / 22
Receiving ID#	D0112201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	N/A
Flash Point (F)	> 140
pH (S.U.)	5.84
Cyanides? (mg/L)	< 30
Sulfides? (ppm)?	< 200
Specific Gravity	1.00
Physical Description	LIQUID
Stream Consistency	(Yes) No
Oil in Sample?	Yes (No)
Temperature (F)	69.7
Conductivity	5.64
% Solids	.33%
Turbidity	Yes (No)
Color	CLEAR
TSS (%)	.25%
Radiation Screen (as needed)	N/C
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/11/22
Receiving ID#	I10112202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	AW 

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	N/A
Flash Point (F)	>140
pH (S.U.)	5.96
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.02
Physical Description	LIQUID
Stream Consistency	(Yes) No
Oil in Sample?	Yes (No)
Temperature (F)	69.9
Conductivity	30.7
% Solids	1.8990
Turbidity	Yes (No)
Color	BLACK
TSS (%)	<0.1
Radiation Screen (as needed)	N66
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	16 / 12 / 22
Receiving ID#	X10122201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 240
pH (S.U.)	3.57
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.8
Conductivity	12.24
% Solids	1.34
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.M.R.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 12 / 22
Receiving ID#	I10122201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	N/A
Flash Point (F)	>140
pH (S.U.)	4.76
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.01
Physical Description	LIQUID
Stream Consistency	<input checked="" type="radio"/> Yes <input type="radio"/> No
Oil in Sample?	Yes <input type="radio"/> <input checked="" type="radio"/> No
Temperature (F)	65.0
Conductivity	9.03
% Solids	1.4%
Turbidity	Yes <input type="radio"/> <input checked="" type="radio"/> No
Color	LT BROWN
TSS (%)	20.1
Radiation Screen (as needed)	NEG
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/13/22
Receiving ID#	II10132201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	TC

SST-1

LAB INFORMATION	
Compatible? (RT#)	Yes
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	4.62
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.7
Conductivity	14.35
% Solids	1.02
Turbidity	Yes No
Color	
TSS (%)	<.1
Radiation Screen (as needed)	
Lab Signature/Initials	TC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 13 / 22
Receiving ID#	X10132202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.18
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.8
Conductivity	18.06 uS
% Solids	1.32
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JIA

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/14/22
Receiving ID#	F10142201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	TL

SST-1

LAB INFORMATION	
Compatible? (RT#)	Yes
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	4.20
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	LD
Stream Consistency	Yes No
Oil in Sample?	Yes (No)
Temperature (F)	67.7
Conductivity	13.70
% Solids	1.17
Turbidity	Yes No
Color	Black
TSS (%)	< .5
Radiation Screen (as needed)	Yes
Lab Signature/Initials	TL

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/17/22
Receiving ID#	10172201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	B

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.56
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.3
Conductivity	20.5 mS
% Solids	1.02
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 18 / 22
Receiving ID#	110182201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.P.
Sampled by	J.P.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.46
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.5
Conductivity	24.9 mS
% Solids	5.59
Turbidity	Yes No
Color	
TSS (%)	J.P. 4.0 4.0
Radiation Screen (as needed)	
Lab Signature/Initials	J.P.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 19 / 22
Receiving ID#	I10192201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	JH

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.08
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.5
Conductivity	4.64 mS
% Solids	0.29
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 19 / 22
Receiving ID#	I10192202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.76
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.10
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.2
Conductivity	3.77
% Solids	0.47
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/20/22
Receiving ID#	IL0202201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	TC
Sampled by	DM

SST-1

LAB INFORMATION	
Compatible? (RT#)	Yes
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	714
pH (S.U.)	6.60
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.3
Conductivity	3.53
% Solids	.30
Turbidity	Yes No
Color	
TSS (%)	2.1
Radiation Screen (as needed)	
Lab Signature/Initials	

5

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 20 / 22
Receiving ID#	IL0202202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	JH

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	5140
pH (S.U.)	6.63
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.8
Conductivity	2.85
% Solids	0.34
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 21 / 22
Receiving ID#	I10212201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.25
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	629
% Solids	0.47
Turbidity	Yes No
Color	
TSS (%)	JH) < 0.1 < 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 21 / 22
Receiving ID#	T10212202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M.
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.64
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.0
Conductivity	3.48
% Solids	0.75
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.M.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 21 / 22
Receiving ID#	I10212203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.56
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	20.0
Conductivity	4.54
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.M

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 21 / 22
Receiving ID#	I10212205
Manifest #	Line
Land Ban Cert included	Yes . No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.N
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	5.91
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.5
Conductivity	654 μ S
% Solids	0.15
Turbidity	Yes No
Color	
TSS (%)	49.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.N

RECEIVING & APPROVAL FORM

SST-1

RECEIVING INFORMATION	
Date	10/24/22
Receiving ID#	210242201
Manifest #	Line
Land Ban Cert included	Yes . No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	TG
Sampled by	DB

LAB INFORMATION	
Compatible? (RT#)	Yes
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>146
pH (S.U.)	7.04
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.2
Conductivity	4.17
% Solids	.37
Turbidity	Yes No
Color	
TSS (%)	<.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/24/22
Receiving ID#	2102422d
Manifest #	Line
Land Ban Cert included	Yes . No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T
Sampled by	BT

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.91
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.08
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.9
Conductivity	4.23
% Solids	0.15
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 24 / 22
Receiving ID#	I10242202
Manifest #	Line
Land Ban Cert included	Yes . No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T
Sampled by	J.T

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.8
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.7
Conductivity	3.34 mS
% Solids	0.11
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/24/22
Receiving ID#	X10242203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.27
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75.5
Conductivity	2.63
% Solids	40.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/25/22
Receiving ID#	I10252201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	TG

SST-1

LAB INFORMATION	
Compatible? (RT#)	Yes
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.0 5.93
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.4
Conductivity	6.01
% Solids	.53
Turbidity	Yes No
Color	
TSS (%)	2.1
Radiation Screen (as needed)	
Lab Signature/Initials	TG

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/25/22
Receiving ID#	I10252202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	3.79
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description:	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	23.6
Conductivity	7.04 mS
% Solids	0.50
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 25 / 22
Receiving ID#	P10252203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.N
Sampled by	OB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.28
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.4
Conductivity	5.33 mS
% Solids	0.22
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.N

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/26/22
Receiving ID#	210262201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	BH

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.90
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.7
Conductivity	4.97 mS
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/26/22
Receiving ID#	210202202
Manifest #	Line
Land Ban Cert included	Yes . No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.
Sampled by	BS

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CO Waste Only)?	
Flash Point (F)	5140
pH (S.U.)	6.12
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.0
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.1
Conductivity	2.42ms
% Solids	10.1
Turbidity	Yes No
Color	
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/27/22
Receiving ID#	210272201
Manifest #	Line
Land Ban Cert included	Yes . No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.Jh
Sampled by	Jh

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.20
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.5
Conductivity	2.18
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.Jh

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 27 / 22
Receiving ID#	2102 + 2202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.F.
Sampled by	J.F.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.50
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	1.5 gal. oil
Stream Consistency	<input checked="" type="radio"/> Yes <input type="radio"/> No
Oil in Sample?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Temperature (F)	72.2
Conductivity	3.36 ms
% Solids	0.22
Turbidity	Yes <input checked="" type="radio"/> No
Color	Colorless
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.F.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/27/22
Receiving ID#	210272203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.65
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.3
Conductivity	2.80
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 28 / 22
Receiving ID#	L10282202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	8.85
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.1
Conductivity	7.05 uS
% Solids	0.21
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 28 / 22
Receiving ID#	I10282201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.F.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.32
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.1
Conductivity	3.58
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.F.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 25 / 22
Receiving ID#	210 282203
Manifest #	Line
Land Ban Cert included	Yes . No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	G.P.
Sampled by	AJ

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.51
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.3
Conductivity	5.69 mS
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.P.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/24/22
Receiving ID#	I10292201
Manifest #	Line
Land Ban Cert included	Yes . No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Ø

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.13
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.6
Conductivity	2.26
% Solids	2.01
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 / 31 / 22
Receiving ID#	I10312201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.F.
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.95
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.0
Conductivity	
% Solids	<01
Turbidity	Yes No
Color	
TSS (%)	Low
Radiation Screen (as needed)	
Lab Signature/Initials	J.F.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/31/22
Receiving ID#	R10312202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.A.
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	J.A. - 6.74 - 4.08
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.2
Conductivity	6.86
% Solids	6.60
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.A.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/31/22
Receiving ID#	210312203
Manifest #	Line
Land Ban Cert included	Yes . No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2740
pH (S.U.)	5.83 5.07 5.83 6.29
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	74.9
Conductivity	0.22 6.28ms
% Solids	
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	0.11

WASTE PROFILES



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile # 64402213669		Expiration Date 4/11/2023	
I. Decision Request: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change			
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: AJAX METAL PROCESSING, INC			
Generator Site Address: 21777 HOOVER RD			
City: WARREN	County: <input type="text"/>	State: MI	Zip: <input type="text"/>
Name of Waste: PICKLE LIQUOR IN PROCESS			
Estimated Annual Volume: 8000 Gallons			

II. Special Waste Department Decision: Approved Rejected

Management Method(s): Landfill Solidification Bioremediation Deep Well Transfer Facility

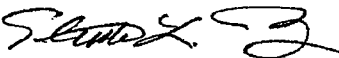
Problematic Special Waste according to Republic? Yes No

If yes, which one?

Approved by Special Waste Review Committee? Yes No Not Applicable

Precautions, Conditions or Limitations on Approval

The site must ensure that all pre-acceptance and verification analytical is performed in accordance with the site's permit requirements prior to acceptance and disposal of the profiled waste.

Special Waste Analyst Signature: 
Date: 10/4/2022

Name (Printed): Stephen Brown

III. Facility Decision: Approved Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: 
Date: 10/4/2022

Name (Printed): John Frost

Republic Industrial and Energy Solutions, LLC
 28470 Citrin Dr, Romulus, MI 48174, Telephone 734 946 1000, Fax 734 946 1002

GENERATOR WASTE PROFILE
 Profile # 64402213669

GENERATOR INFORMATION

Name: Ajax Metal Processing, Inc. USEPA ID # MID083942714
 Facility Address: 21777 Hoover Rd SIC/NAICS Code: State Code: _____
 City: Warren State: MI Zip Code: 48001
 Contact: Alex Muench Title: Manager Phone: (313) 287-2100 Fax: () _____

BILLING INFORMATION

SAME AS ABOVE
 Company Name: Environmental Equipment Enterprises, Inc. (3E, Inc.)
 Address: 7065 E 8 Mile Rd.
 City: Warren State: MI Zip Code: 48091
 Attention: Molly McCleughan molly@steering.com Title: Manager Phone: (313) 756-4570 x101 Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:
Pickle liquor in Process
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
Pickle Liquor conditioning steel coils to remove impurities, rust, and scale from the surface of a material. Sulfuric acid approximately 6-9 %, balance water. Heavy iron content approximately 2%

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

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

pH: NA < 2 2 - 4 4 - 6 6 - 8 8-10 10 - 12.5 >12.5
 Liquid Flash Point: <73°F 73-100°F 101-140°F 141-200°F >200°F None Closed Cup Open Cup
 VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Sulfuric Acid (7664-93-9)	6	9			%
Water (7732-18-5)	94	91			%
					%

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

TCLP TOTAL

	Not Present	Concentration	Not Present	Concentration							
PCB	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	<5	ppm	ppm
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	<100	ppm	ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	<1	ppm	ppm
Cyanides Total	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	<input type="checkbox"/>	<5	ppm	120 ppm
Sulfides Reactive	<input type="checkbox"/>	22 ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/>	<5	ppm	68 ppm
Sulfides Total	<input type="checkbox"/>	ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	<0.2	ppm	ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/>	<1	ppm	ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/>	<5	ppm	ppm

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

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

SHIPPING INFORMATION

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 UN1832, Waste sulfuric acid, spent, B, PGII Hazard Class 8 UN/NA UN1832
 PG II ERG Hazardous Constituents for "n.o.s." _____
 4. Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
 5. Number of Units to Ship Now 8000gal 6. Anticipated Volume / Units per Year: _____ or One Time
 6. Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein.

If this box is checked I request Republic Industrial & Energy Solutions not to correct any inconsistencies. Any corrections Republic Industrial & Energy Solutions makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: Alexandria Muench Title: Compliance Manager
 Generator's Signature: Alexandria Muench Date: 5/11/2022

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 Republic Industrial & Energy Solutions representative.

1. Grab 2. Pickling tank
 SAMPLING METHOD PICKLING TANK
Tom McClanaghan, Manager, 3E, Inc.
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

*03-25-22 MP4 done 5-22
 Pickle Liquid in Process*

4. Sample No. _____ Preservation: Yes No
 5. CHAIN OF CUSTODY *Each person who handles the sample must sign below when the sample passes from one to another.*

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>					

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	5/9/22
Receiving ID#	Pickle liquor in Process
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	Ajax Metal Processing
Client	
Transporter	
Time in	
Time out	
Received by	JTB
Sampled by	Client
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	0.72
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	42.00
Specific Gravity	1.25
Physical Description	Liquid - Top / Solid - Bottom
Stream Consistency	Yes <input checked="" type="radio"/> No <input type="radio"/>
Oil in Sample?	Yes <input checked="" type="radio"/> No <input type="radio"/>
Temperature (F)	62.6
Conductivity	>1000ms
% Solids	32.09 (top liquid layer)
Turbidity	Yes <input checked="" type="radio"/> No <input type="radio"/>
Color	Blue
TSS (%)	22.2
Radiation Screen (as needed)	Neg.
Lab Signature/Initials	

(See lab Notes)



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile # 64402213679		Expiration Date 9/23/2023	
I. Decision Request:			
<input checked="" type="checkbox"/> Initial		<input type="checkbox"/> Recertification	
		<input type="checkbox"/> Change	
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: CHICAGO-DEPT OF AVIATION- ENVIRONMENTAL			
Generator Site Address: 6201 S LARAMIE AVENUE			
City: CHICAGO	County: <input type="text"/>	State: IL	Zip: <input type="text"/>
Name of Waste: AQUEOUS SOLUTION OF AFFF WATER FROM CHICAGO FIRE DEPARTMENT VEHICLE TESTING			
Estimated Annual Volume: 25,000 Gallons			

II. Special Waste Department Decision:

Approved Rejected

Management Method(s): Landfill Solidification Bioremediation Deep Well Transfer Facility


Problematic Special Waste according to Republic? Yes No

If yes, which one?

Approved by Special Waste Review Committee? Yes No Not Applicable

Precautions, Conditions or Limitations on Approval

The site must ensure that all pre-acceptance and verification analytical is performed in accordance with the site's permit requirements prior to acceptance and disposal of the profiled waste.

Special Waste Analyst Signature: 
Date: 10/4/2022

Name (Printed): KEITH DIAMANTI

III. Facility Decision:

Approved Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: 
Date: 10/4/2022

Name (Printed): John Frost

Republic Industrial and Energy Solutions, LLC

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

GENERATOR WASTE PROFILE

Profile # 64402213679

GENERATOR INFORMATION

Name: Chicago-Dept of Aviation-Environmental USEPA ID # ILD984841197
 Facility Address: 6201 S Laramie Avenue SIC/NAICS Code: State Code: 488119
 City: Chicago State: IL Zip Code: 60638
 Contact: Ryan Lane Title: _____ Phone: (734) 686-7492 Fax: () _____

BILLING INFORMATION

SAME AS ABOVE

Company Name: SET Environmental, Inc.
 Address: 450 Sumac Road
 City: Wheeling State: IL Zip Code: 60090
 Attention: _____ Title: _____ Phone: (47) 537-9221 Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:
Aqueous solution of AFFF water from Chicago Fire Department Vehicle Testing

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

~~FAA-MANDATED FIRE FOAM SUPPRESSION SYSTEM TESTING~~

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: _____

PHYSICAL CHARACTERISTICS OF WASTE

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

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 - <500 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Water	99	95			
Grit/soil/sediment	2	0			
Chemguard 3% AFFF	5	1			

Metals: Indicate if this waste contains any of the following metals

If Generator knowledge-provide backup Lab Analysis Generator Knowledge TCLP TOTAL

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

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 NOT REGULATED Hazard Class _____ UN/NA _____
 PG _____ ERG _____ Hazardous Constituents for "n.o.s." _____
 4. Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
 5. Number of Units to Ship Now 5 6. Anticipated Volume / Units per Year: 25,000 GALLONS or One Time
 6. Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein.

If this box is checked I request Republic Industrial & Energy Solutions not to correct any inconsistencies. Any corrections Republic Industrial & Energy Solutions makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: MARK PARQUETTE ON BEHALF OF CHICAGO DEPT OF AVIATION Title: PROJECT MANAGER

Generator's Signature: Mark Parquette Date: 9-23-2022

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 Republic Industrial & Energy Solutions representative.

1. GRAB 2. FRAC TANK
 SAMPLING METHOD COLLECTION POINT
 3. BRANDON CARLING, CHEMIST, SET ENVIRONMENTAL
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
 4. Sample No. FT-A4744 Preservation: Yes No
 5. CHAIN OF CUSTODY Each person who handles the sample must sign below when the sample passes from one to another.



Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>Brandon Carling</u>	<u>9/23/22</u>	<u>12:00</u>			

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9/26/22
Receiving ID#	Aqueous AFFF
Manifest #	Line
Land Ban Cert included	Yes - No
EGT Approval #	
Generator	Chicago Dept of Aviation - Env.
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

Chicago F.D. Veh. Testing
 of Aviation - Env.

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.75
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.00
Physical Description	Liquid
Stream Consistency	<input checked="" type="radio"/> Yes <input type="radio"/> No
Oil in Sample?	Yes <input type="radio"/> <input checked="" type="radio"/> No
Temperature (F)	66.4
Conductivity	1.307 mS
% Solids	<0.1
Turbidity	Yes <input type="radio"/> <input checked="" type="radio"/> No
Color	lt. Grey
TSS (%)	<0.1
Radiation Screen (as needed)	X Neg.
Lab Signature/Initials	J.H.

(see attached lab notes)



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 64402212815	Expiration Date 9/22/2023	
I. Decision Request:	<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Recertification	<input type="checkbox"/> Change
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: PREMIER PLATING- OLD USE APPROVAL D172503DET			
Generator Site Address: 32370 HOWARD DRIVE			
City: MADISON HEIGHTS	County: <input type="text"/>	State: MI	Zip: <input type="text"/>
Name of Waste: ELECTROLESS NICKEL SOLUTION			
Estimated Annual Volume: 30000 Gallons			

II. Special Waste Department Decision:

Approved Rejected

Management Method(s): Landfill Solidification Bioremediation Deep Well Transfer Facility


Problematic Special Waste according to Republic? Yes No

If yes, which one?

Approved by Special Waste Review Committee? Yes No Not Applicable

Precautions, Conditions or Limitations on Approval

The site must ensure that all pre-acceptance and verification analytical is performed in accordance with the site's permit requirements prior to acceptance and disposal of the profiled waste.

Special Waste Analyst Signature: 
Date: 10/20/2022

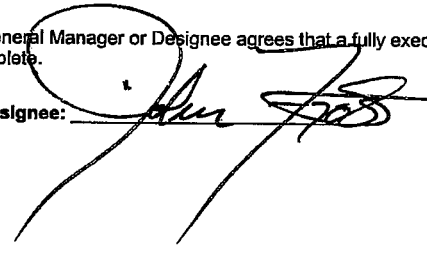
Name (Printed): Stephen Brown

III. Facility Decision:

Approved Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: 
Date: 10/20/2022

Name (Printed): John Frost

Republic Industrial and Energy Solutions, LLC
 28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

GENERATOR WASTE PROFILE

Profile # _____

GENERATOR INFORMATION

Name: Premier Plating - Old USE Approval D172503DET USEPA ID # MID985580133
 Facility Address: 32370 Howard Drive SIC/NAICS Code: _____ State Code: _____
 City: Madison Heights State: MI Zip Code: 48520-48071
 Contact: Greg Bone Title: Manager Phone: (313) 702-4294 Fax: () _____

BILLING INFORMATION

SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:
Electroless Nickel Solution
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
Spent electroless nickel plating solution used to plate nickel onto steel parts.

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: None

PHYSICAL CHARACTERISTICS OF WASTE

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

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 <> 1= 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Electroless Nickel Plating Solution	100	100			%
					%
					%
					%

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

TCLP TOTAL

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

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 NESHAPE 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 Non-Hazardous Liquid Hazard Class _____ UN/NA _____

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

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

5. Number of Units to Ship Now 5000 6. Anticipated Volume / Units per Year: 30000 or One Time

6. Special Handling Requirements including PPE: _____ or One Time

None

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 Republic Industrial & Energy Solutions not to correct any inconsistencies. Any corrections Republic Industrial & Energy Solutions makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: Greg Bone Title: Plant Manager

Generator's Signature: Greg Bone Date: 9/6/22

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 Republic Industrial & Energy Solutions representative.

1. Grab 2. Working Tank

SAMPLING METHOD COLLECTION POINT

3. Mike Cate, Sales, US Ecology

SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

Sample ID 9920 Grab
 Sample Date 09/22/2022

4. Sample No. _____ Preservation: Yes No

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

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

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8 / 5 / 22
Receiving ID#	Eled. Ni Sol.
Manifest #	Line
Land Ban Cert included	Yes - No
EGT Approval #	
Generator	Premier Plating
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.29
Cyanides? (mg/L)	< 30
Sulfides? (ppm)?	< 200
Specific Gravity	2.00
Physical Description	liquid
Stream Consistency	(Yes) No
Oil in Sample?	Yes (No)
Temperature (F)	74
Conductivity	115.7 mS
% Solids	23.69
Turbidity	Yes (No)
Color	Green
TSS (%)	< 0.1
Radiation Screen (as needed)	Neg.
Lab Signature/Initials	J.H.

(See Lab Notes)



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 64402214814	Expiration Date 9/22/2023	
I. Decision Request:	<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Recertification	<input type="checkbox"/> Change
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: SVRC INDUSTRIES INC.			
Generator Site Address: 919 VETERANS MEMORIAL PARKWAY			
City: SAGINAW	County: <input type="text"/>	State: MI	Zip: <input type="text"/>
Name of Waste: WASH WATER			
Estimated Annual Volume: 5000 Gallons			

II. Special Waste Department Decision: Approved Rejected

Management Method(s): Landfill Solidification Bioremediation Deep Well Transfer Facility

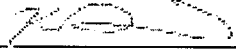
Problematic Special Waste according to Republic? Yes No

If yes, which one?

Approved by Special Waste Review Committee? Yes No Not Applicable

Precautions, Conditions or Limitations on Approval

The site must ensure that all pre-acceptance and verification analytical is performed in accordance with the site's permit requirements prior to acceptance and disposal of the profiled waste.

Special Waste Analyst Signature: 
Date: 10/26/2022

Name (Printed): KEITH DIAMANTI

III. Facility Decision: Approved Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: 
Date: 10/26/2022

Name (Printed): John Frost

Republic Industrial and Energy Solutions, LLC

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

GENERATOR WASTE PROFILE

Profile # 64402214814

GENERATOR INFORMATION

Name: SVRC Industries Inc. USEPA ID # MID981794498

Facility Address: 919 Veterans Memorial Parkway SIC/NAICS Code: _____ State Code: _____

City: Saginaw State: MI Zip Code: 48601

Contact: Jessica Smith Title: _____ Phone: (946) 280-5811 Fax: () _____

BILLING INFORMATION

SAME AS ABOVE

Company Name: ERG Environmental Services

Address: 13040 Merriman Rd

City: Livonia State: MI Zip Code: 48150

Attention: Accounts Payable Title: _____ Phone: (313) 437-9650 Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:
Wash Water

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

Washing and rinsing of small manufactured brass casings

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: _____

PHYSICAL CHARACTERISTICS OF WASTE

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

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	90	95	Metalnox M6093	1	10
Metalnox M6310	1	5			
Masterall B3592	1	6			

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

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

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 Non-RCRA, Non-DOT Regulated Hazard Class _____ UN/NA _____
 PG _____ ERG _____ Hazardous Constituents for "n.o.s." _____
 4. Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
 5. Number of Units to Ship Now 1000 6. Anticipated Volume / Units per Year: 5000 or One Time
 6. Special Handling Requirements including PPE: _____
NA

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: Jessica Smith Title: Director of Industrial Operation
 Generator's Signature: [Signature] Date: 9/22/00

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

1. Grab 2. Tank
 SAMPLING METHOD COLLECTION POINT
 3. Terry Atkins
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER



4. Sample No. 1A - Waste Wash Water Preservation: Yes No
 5. CHAIN OF CUSTODY *Each person who handles the sample must sign below when the sample passes from one to another.*

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

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10 17 122
Receiving ID#	Wash Water
Manifest #	Line
Land Ban Cert included	Yes . No
EGT Approval #	
Generator	SVRC Industries
Client	
Transporter	
Time in	
Time out	
Received by	J.F.
Sampled by	Client

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	3.20
Cyanides? (mg/L)	430
Sulfides? (ppm)?	4200
Specific Gravity	1.00
Physical Description	liquid
Stream Consistency	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Oil in Sample?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature (F)	70
Conductivity	198.3 ms
% Solids	1.65
Turbidity	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Color	Green
TSS (%)	1.0
Radiation Screen (as needed)	Neg.
Lab Signature/Initials	J.F.

(See Attached 1-3 Negs)



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 6440224460	Expiration Date 3/22/2023	
I. Decision Request:	<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Recertification	<input type="checkbox"/> Change
Disposal Facility: 6440 - Detroit Industrial Well			
Generator Name: BFI WASTE SYSTEMS OF NORTH AMERICA, LLC			
Generator Site Address: 8501 STILLHOUSE ROAD			
City: LIBERTY	County: <input type="text"/>	State: MO	Zip: <input type="text"/>
Name of Waste: F039- HAZARDOUS WASTE LEACHATE			
Estimated Annual Volume: 60,000 Gallons			

II. Special Waste Department Decision:

Approved Rejected

Management Method(s): Landfill Solidification Bioremediation Deep Well Transfer Facility

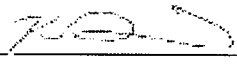
Problematic Special Waste according to Republic? Yes No

If yes, which one?

Approved by Special Waste Review Committee? Yes No Not Applicable

Precautions, Conditions or Limitations on Approval

The site must ensure that all pre-acceptance and verification analytical is performed in accordance with the site's permit requirements prior to acceptance and disposal of the profiled waste.

Special Waste Analyst Signature: 
Date: 4/7/2022

Name (Printed): KEITH DIAMANTI

III. Facility Decision:

Approved Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: 
Date: 10.19.22

Name (Printed): JOHN FROST

Republic Industrial and Energy Solutions, LLC

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

GENERATOR WASTE PROFILE

Profile # 6440224460

GENERATOR INFORMATION

Name: BFI Waste Systems of North America, LLC USEPA ID # MOD000624452
 Facility Address: 8501 Stillhouse Road SIC/NAICS Code: _____ State Code: _____
 City: Liberty State: MO Zip Code: 64068
 Contact: Brad Zimmerman Title: EM Phone: (673) 636-1144 Fax: () _____

BILLING INFORMATION

SAME AS ABOVE

Company Name: BFINA
 Address: 5605 MOREAU RIVER ACCESS RD
 City: Jefferson City State: MO Zip Code: 65101
 Attention: Brad Zimmerman Title: EM Phone: (673) 6361144 Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name: F039 - hazardous waste leachate
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
groundwater collection systems that collect groundwater that has been in contact with hazardous waste leachate

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: F039

PHYSICAL CHARACTERISTICS OF WASTE

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

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 - 4.1 PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (1ST EACH CONSTITUENT <=> 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Multi source Leacachte	100	100			%
					%
					%

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

	Not Present	Concentration	Not Present	Concentration								
PCB	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input checked="" type="checkbox"/>	Arsenic (As)	D004	<input checked="" type="checkbox"/>	<5	ppm	0	ppm	
Dioxins	<input type="checkbox"/>	0.000067 ppm	Pesticides	<input type="checkbox"/>	Barium (Ba)	D005	<input checked="" type="checkbox"/>	<100	see attached table			
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	<1	ppm	0	ppm	
Cyanides Total	<input type="checkbox"/>	0.25 ppm	Fungicides	<input checked="" type="checkbox"/>	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	<5	ppm	0	ppm	
Sulfides Reactive	<input checked="" type="checkbox"/>	ppm	pesticide, dioxin, and cyanide - see attached table for concentration			Lead (Pb)	D008	<input checked="" type="checkbox"/>	<5	ppm	0	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				
					Silver (Ag)	D011	<input checked="" type="checkbox"/>	<5				

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 1
 3. DOT Shipping Name Hazardous waste liquids Hazard Class 9 UN/NA 3082
 PG III ERG 171 Hazardous Constituents for "n.o.s." F039
 4. Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
 5. Number of Units to Ship Now 5,000 gallons 6. Anticipated Volume / Units per Year: 20,000 to 60,000 gallons or One Time
 6. Special Handling Requirements including PPE:

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein.

If this box is checked I request Republic Industrial & Energy Solutions not to correct any inconsistencies. Any corrections Republic Industrial & Energy Solutions makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: Brad Zimmerman Title: Environmental Manager
 Generator's Signature: *Brad Zimmerman* Date: 3/22/2022

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 Republic Industrial & Energy Solutions representative.

1. grab 2. Tanks 3, 5, 7 and NAPL
 SAMPLING METHOD COLLECTION POINT
 3. Rick Nuessen, SPM, Landmarc Environmental
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
 4. Sample No. _____ Preservation: Yes No

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2-8-2022				

Samples were collected on 8 Feb and sent with a draft of this form.
 The draft form has the samplers signature.

F039 Analysis



01-Dec-2022

Rick Sauve
Republic Industrial and Energy Solutions, LLC
28470 Cintrin Dr.
Romulus, MI 48174

Re: **(REIS) F039 Leachate analysis 11.1.2022**

Work Order: **22110213**

Dear Rick,

ALS Environmental received 1 sample on 01-Nov-2022 09:00 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 46.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Les Arnold

Les Arnold
General Manager

Report of Laboratory Analysis

Certificate No: FL E871106

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Republic Industrial and Energy Solutions, LLC
Project: (REIS) F039 Leachate analysis 11.1.2022
Work Order: 22110213

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22110213-01	October 2022 F039	Analytical	Liquid	11/1/2022 10:00	11/1/2022 21:00	<input type="checkbox"/>

Client: Republic Industrial and Energy Solutions, LLC
Project: (REIS) F039 Leachate analysis 11.1.2022
Work Order: 22110213

Case Narrative

The attached "Sample Receipt Checklist" documents the date of receipt, status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. A copy of the laboratory's scope of accreditation is available upon request.

Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

Any flags on MS/MSD samples not addressed in this narrative are unrelated to samples in this report.

With the following exceptions, all sample analyses achieved analytical criteria.

Dioxin/Furan analysis was performed at ALS Houston.
Subcontracted analytical data has been appended to this report in its entirety.

Client: Republic Industrial and Energy Solutions, LLC

Project: (REIS) F039 Leachate analysis 11.1.2022

Work Order: 22110213

Sample ID: October 2022 F039 Analytical

Lab ID: 22110213-01

Collection Date: 11/1/2022 10:00 AM

Matrix: LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PESTICIDES			SW8081B		Prep: SW3511 11/8/22 17:18	Analyst: MMO
Aldrin	ND		0.10	µg/L	1	11/9/2022 10:14 PM
Surr: Decachlorobiphenyl	83.5		42-148	%REC	1	11/9/2022 10:14 PM
Surr: Tetrachloro-m-xylene	78.5		57-141	%REC	1	11/9/2022 10:14 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3510 11/8/22 14:56	Analyst: EEW
N-Nitrosodimethylamine	ND		100	µg/L	1	11/9/2022 07:59 AM
Surr: 2,4,6-Tribromophenol	86.9		47-103	%REC	1	11/9/2022 07:59 AM
Surr: 2-Fluorobiphenyl	65.7		41-96	%REC	1	11/9/2022 07:59 AM
Surr: 2-Fluorophenol	45.5		28-66	%REC	1	11/9/2022 07:59 AM
Surr: 4-Terphenyl-d14	91.3		49-107	%REC	1	11/9/2022 07:59 AM
Surr: Nitrobenzene-d5	7.20	S	41-95	%REC	1	11/9/2022 07:59 AM
Surr: Phenol-d6	0	S	18-44	%REC	1	11/9/2022 07:59 AM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: ALS
Subcontracted Analyses	See attached			as noted	1	12/1/2022

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Republic Industrial and Energy Solutions, LLC
Project: (REIS) F039 Leachate analysis 11.1.2022
WorkOrder: 22110213

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
as noted	

ALS Group, USA

Date: 01-Dec-22

Client: Republic Industrial and Energy Solutions, LLC
Work Order: 22110213
Project: (REIS) F039 Leachate analysis 11.1.2022

QC BATCH REPORT

Batch ID: **206250** Instrument ID **GC12** Method: **SW8081B**

MBLK		Sample ID: PBLKW1-206250-206250			Units: µg/L		Analysis Date: 11/9/2022 06:04 PM			
Client ID:		Run ID: GC12_221109A			SeqNo: 8995397		Prep Date: 11/8/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	ND	0.010								
Surr: Decachlorobiphenyl	0.295	0	0.25	0	118	42-148	0			
Surr: Tetrachloro-m-xylene	0.2446	0	0.25	0	97.8	57-141	0			

LCS		Sample ID: PLCSW1-206250-206250			Units: µg/L		Analysis Date: 11/9/2022 06:32 PM			
Client ID:		Run ID: GC12_221109A			SeqNo: 8995399		Prep Date: 11/8/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.2154	0.010	0.2	0	108	51-164	0			
Surr: Decachlorobiphenyl	0.311	0	0.25	0	124	42-148	0			
Surr: Tetrachloro-m-xylene	0.2742	0	0.25	0	110	57-141	0			

LCSD		Sample ID: PLCSDW1-206250-206250			Units: µg/L		Analysis Date: 11/9/2022 06:46 PM			
Client ID:		Run ID: GC12_221109A			SeqNo: 8995400		Prep Date: 11/8/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.2152	0.010	0.2	0	108	51-164	0.2154	0.0929	20	
Surr: Decachlorobiphenyl	0.3068	0	0.25	0	123	42-148	0.311	1.36	20	
Surr: Tetrachloro-m-xylene	0.2704	0	0.25	0	108	57-141	0.2742	1.4	20	

The following samples were analyzed in this batch: 22110213-01A

Client: Republic Industrial and Energy Solutions, LLC
 Work Order: 22110213
 Project: (REIS) F039 Leachate analysis 11.1.2022

QC BATCH REPORT

Batch ID: 206216 Instrument ID SVMS10 Method: SW846 8270D

MBLK		Sample ID: SBLKW1-206216-206216			Units: µg/L		Analysis Date: 11/8/2022 07:27 PM			
Client ID:		Run ID: SVMS10_221108A			SeqNo: 8989083		Prep Date: 11/8/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	ND	5.0								
Surr: 2,4,6-Tribromophenol	35.4	0	50	0	70.8	47-103	0			
Surr: 2-Fluorobiphenyl	34.42	0	50	0	68.8	41-96	0			
Surr: 2-Fluorophenol	22.67	0	50	0	45.3	28-66	0			
Surr: 4-Terphenyl-d14	47.39	0	50	0	94.8	49-107	0			
Surr: Nitrobenzene-d5	34.92	0	50	0	69.8	41-95	0			
Surr: Phenol-d6	13.76	0	50	0	27.5	18-44	0			

LCS		Sample ID: SLCSW1-206216-206216			Units: µg/L		Analysis Date: 11/8/2022 07:54 PM			
Client ID:		Run ID: SVMS10_221108A			SeqNo: 8989084		Prep Date: 11/8/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	10.72	5.0	20	0	53.6	26-74	0			
Surr: 2,4,6-Tribromophenol	42.57	0	50	0	85.1	47-103	0			
Surr: 2-Fluorobiphenyl	39.25	0	50	0	78.5	41-96	0			
Surr: 2-Fluorophenol	27.51	0	50	0	55	28-66	0			
Surr: 4-Terphenyl-d14	48.99	0	50	0	98	49-107	0			
Surr: Nitrobenzene-d5	38.14	0	50	0	76.3	41-95	0			
Surr: Phenol-d6	18	0	50	0	36	18-44	0			

MS		Sample ID: 22110395-01A MS			Units: µg/L		Analysis Date: 11/8/2022 09:43 PM			
Client ID:		Run ID: SVMS10_221108A			SeqNo: 8989085		Prep Date: 11/8/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	208	100	400	0	52	26-74	0			
Surr: 2,4,6-Tribromophenol	848.6	0	1000	0	84.9	47-103	0			
Surr: 2-Fluorobiphenyl	757.4	0	1000	0	75.7	41-96	0			
Surr: 2-Fluorophenol	512	0	1000	0	51.2	28-66	0			
Surr: 4-Terphenyl-d14	966.2	0	1000	0	96.6	49-107	0			
Surr: Nitrobenzene-d5	719	0	1000	0	71.9	41-95	0			
Surr: Phenol-d6	326.8	0	1000	0	32.7	18-44	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

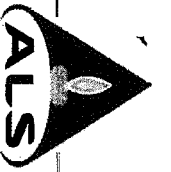
Client: Republic Industrial and Energy Solutions, LLC
Work Order: 22110213
Project: (REIS) F039 Leachate analysis 11.1.2022

QC BATCH REPORT

Batch ID: **206216** Instrument ID **SVMS10** Method: **SW846 8270D**

MSD		Sample ID: 22110395-01A MSD			Units: µg/L		Analysis Date: 11/8/2022 10:10 PM			
Client ID:		Run ID: SVMS10_221108A			SeqNo: 8989086		Prep Date: 11/8/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	194.2	100	400	0	48.6	26-74	208	6.86	30	
<i>Surr: 2,4,6-Tribromophenol</i>	833.2	0	1000	0	83.3	47-103	848.6	1.83	40	
<i>Surr: 2-Fluorobiphenyl</i>	761.2	0	1000	0	76.1	41-96	757.4	0.5	40	
<i>Surr: 2-Fluorophenol</i>	494.4	0	1000	0	49.4	28-66	512	3.5	40	
<i>Surr: 4-Terphenyl-d14</i>	960.8	0	1000	0	96.1	49-107	966.2	0.56	40	
<i>Surr: Nitrobenzene-d5</i>	708.4	0	1000	0	70.8	41-95	719	1.49	40	
<i>Surr: Phenol-d6</i>	320	0	1000	0	32	18-44	326.8	2.1	40	

The following samples were analyzed in this batch: | 22110213-01A



Chain of Custody Form

Page 1 of 1

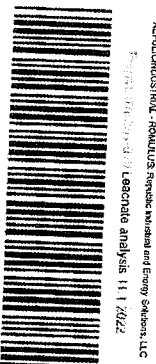
ALS Environmental
 3352 128th Avenue
 Holland, Michigan 49424
 (Tel) 616.399.6070
 (Fax) 616.399.6185

ALS Project Manager:

ALS Work Order #:

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:											
Purchase Order		Project Name	RIES110122F039														
Work Order		Project Number															
Company Name	Republic Industrial and Energy	Bill To Company	Republic Industrial and Energy														
Send Report To	Rick Sauve	Invoice Attn.															
Address	28470 CINTRIN DR.	Address	28470 CINTRIN DR.														
City/State/Zip	Romulus, MI 48174	City/State/Zip	Romulus, MI 48174														
Phone	734-784-2708	Phone															
Fax		Fax															
e-Mail Address	RSauve@republicservices.com																
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	October 2022 F039	11/1/2022	1:00 PM	L		3	X	X	X	X	X						

22110213



REPUBLIC INDUSTRIAL - ROMULUS, REPUBLIC INDUSTRIAL and Energy Services, LLC
 Project: RIES110122F039 Laboratory Analysis 11/1/2022

Shipment Method:

Turnaround Time: (Business Days)

Results Due Date:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Notes:

Requested by:

Date:

Time:

Received by (Laboratory):

Date:

Time:

Logged by (Laboratory):

Date:

Time:

Checked by (Laboratory):

ALS Cooler ID: 123
 Cooler Temp: 31.2
 Level II: Standard QC
 Level III: Raw Data
 Level IV: SW846 Methods/CLP file
 TRRP Level IV
 Other: 11/1/22 2100

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C

Revision 2 - Effective 11/9/2016

Copyright 2016 by ALS Environmental

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

Hazardous Substances Limitations and Reporting

<u>RCRA CODE(S)</u>	<u>NAME</u>	<u>LIMIT (mg/ml)</u>	<u>MINIMUM⁵ MONITORING FREQUENCY</u>	<u>MINIMUM REPORTING FREQUENCY</u>
F039, P004	Aldrin	200	monthly/per load	monthly
U021	Benzidine	200	monthly/per load	monthly
P016, K017	sym-Dichloromethyl ether	160	monthly/per load	monthly
F020, F021, F022, F026, F027, F028, F032, F039, F032, K043, K099	Hexachlorodibenzo-p-dioxins	6	monthly/per load	monthly
K174, K178	Hexachlorodibenzo-p-dioxins, all	6	monthly/per load	monthly
F039, P082	Nitrosodimethylamine	200	monthly/per load	monthly
F039, K174, K178	1,2,3,4,6,7,8,9- Octachloro- dibenzofuran	6	monthly/per load	monthly
F039, K174, K178	1,2,3,4,6,7,8,9- Octachloro- dibenzo-p-dioxin	6	monthly/per load	monthly
F020, F021, F022, F026, F027, F028, F032, F039, F032, K043	Tetrachlorodibenzo-p-dioxins (TCDD)	30	monthly/per load	monthly
K174, K178	Tetrachlorodibenzo-p-dioxins (TCDD)	30	monthly/per load	monthly
P110	Tetraethyl lead	100	monthly/per load	monthly

⁵The monthly chemical analyses for the specific chemicals and waste codes required by this table apply to post-treatment "source" material for injection. A "per load" fingerprint analysis is required for each incoming waste shipment received and for each batch of post-treatment source material as specified in Part III(E) to confirm the general characteristics of the materials. The fingerprint analysis of the general characteristics of the source is not specific to these individual waste codes.

Sample Receipt Checklist

Client Name: **REPULICINDUSTRIAL - ROMULU**
 Work Order: **22110213**

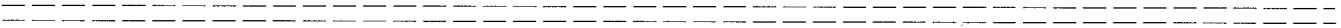
Date/Time Received: **01-Nov-22 21:00**
 Received by: **KRW**

Checklist completed by **Keith Wierenga** 02-Nov-22 Reviewed by: _____
eSignature Date eSignature Date

Matrices: **Liquid**
 Carrier name: **Courier**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="3.1/4.1 C"/>		<input type="text" value="IR3"/>
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="11/2/2022 2:47:10 PM"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____
 Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:



December 01, 2022

Service Request No:E2201085

Les Arnold
ALS - Holland
3352 128th Avenue
Holland, MI 49424

Laboratory Results for: 22110213

Dear Les,

Enclosed are the results of the sample(s) submitted to our laboratory November 04, 2022
For your reference, these analyses have been assigned our service request number **E2201085**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental



Certificate of Analysis

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental – Holland (MI)	Service Request No.:	E2201085
Project:	22110213	Date Received:	11/04/22
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 11/04/22.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2200529: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

B flags – Method Blanks

The Method Blank EQ2200529-01 contained low levels of target compounds below the Method Reporting Limit (MRL). The associated compounds in the samples are flagged with 'B' flags where the sample result is less than ten times the level detected in the method blank.

2378-TCDF

Samples analyzed on the DB-5MSUI column were analyzed under conditions where sufficient separation between 2,3,7,8-TCDF and its closest eluter was achieved. Confirmation of this result was not required.

Y flags – Cleanup Standard

The recoveries for the cleanup standard, 37Cl-2,3,7,8-TCDD are below control limits. The sample results are not affected since this labeled standard is provided as a means of demonstrating that both the sample extraction and subsequent cleanup steps performed as expected and is not used in quantitation of target analytes.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - Holland (MI)
Project: 22110213

Service Request:E2201085

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E2201085-001	October 2022 F039 Analysis	11/1/2022	1000

Service Request Summary

1 500 mL-Glass Bottle NM AMBER Teflon Liner Unpreserved
 Location: EHRMS-WIC 6B
 Pressure Gas:

Project Chemist: James Guin
 Originating Lab: HOUSTON
 Logged By: CGRANDITS
 Date Received: 11/04/22
 Internal Due Date: 12/16/2022
 GAP: LAB QAP
 Qualifier Set: HRMS Qualifier Set
 Formset: Lab Standard
 Merged?: Y
 Report to MDL?: Y
 P.O. Number: 22110213
 EDD: BASIC_WQC_CASNo

Folder #: E2201085
Client Name: ALS Environmental - Holland (MI)
Project Name: 22110213
Project Number:
Report To: Les Arnold
 ALS - Holland
 3352 128th Avenue
 Holland, MI 49424
 USA
Phone Number: 616-738-7307
Cell Number: 616-836-2964
Fax Number: 616-399-6185
E-mail: les.arnold@alsglobal.com

Lab Samp No.	Client Samp No	Matrix	Collected
E2201085-001	October 2022 F039 Analysis	Water	11/01/22 1000
HOUSTON Dioxins Furans/1613B			II

Service Request Summary

Folder #: E2201085
Client Name: ALS Environmental - Holland (MI)
Project Name: 22110213
Project Number:
Report To: Les Arnold
ALS - Holland
3352 128th Avenue
Holland, MI 49424
USA
Phone Number: 616-738-7307
Cell Number: 616-836-2964
Fax Number: 616-399-6185
E-mail: les.arnold@alsglobal.com

1 500 mL-Glass Bottle NM-AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 6B
Pressure Gas:

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 11/04/22
Internal Due Date: 12/16/2022
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: 22110213
EDD: BASIC_WQC_CASNo

Data Qualifiers

HRMS Qualifier Set

- B Indicates the associated analyte was found in the method blank at >1/10th the reported value.
- E Estimated value. The reported concentration is above the calibration range of the instrument.
- H Sample extracted and/or analyzed out of suggested holding time.
- J Estimated value. The reported concentration is below the MRL.
- K The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits. The concentration of this analyte should be considered as an estimate.
- P Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
- Q Monitored lock-mass indicates matrix-interference. Reported result is estimated.
- S Signal saturated detector. Result reported from dilution.
- U Compound was analyzed for, but was not detected (ND).
- X See Case Narrative.
- Y Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
- i The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient



State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028	12/31/2022
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Department of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	I1707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Conservation	04016-2022	4/30/2023
Texas Commission on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E2201085

DB-5MSUI

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
11/30/22	LKL	001

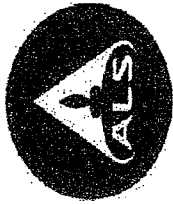
Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
12/01/22	SL	001



Chain of Custody

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com



Subcontractor:
 ALS Environmental
 10450 Stancilff Rd
 Suite 210
 Houston, TX 77099

TEL: (281) 530-5656
 FAX: (281) 530-5687
 Acct #:

CHAIN-OF-CUSTODY RECORD

Date: 02-Nov-22
 COC ID: 21377
 Due Date: 22-Nov-22

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	HN-22110213	Project Name	22110213	A Subcontracted Analyses (SUBCONTRACT)												
Work Order		Project Number		B	D/F - client List											
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C												
Send Report To	Les Arnold	Inv Attn	Accounts Payable	D												
Address	3352 128th Ave	Address	3352 128th Ave	E												
City/State/Zip	Holland, Michigan 49424	City/State/Zip	Holland, Michigan 49424	F												
Phone	(616) 399-6070	Phone	(616) 399-6070	G												
Fax	(616) 399-6185	Fax	(616) 399-6185	H												
eMail Address	les.arnold@alsglobal.com	eMail CC		I												
ALS Sample ID	October 2022 F039	Client Sample ID		J												
22110213-01B	Analytical	Matrix	Liquid	A		B	C	D	E	F	G	H	I	J		
		Collection Date 24hr	1/Nov/2022 10:00	X												
		Bottle	(1) 250AMGNEAT													

Comments:

Les Arnold

2 Nov 2022

Date/Time

Relinquished by:

Received by:

11-1-22 0:00

Date/Time

Cooler IDs

Report/QC Level

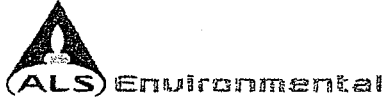
Date/Time

Received by:

Date/Time

Cooler IDs

Report/QC Level



Cooler Receipt Form

Project Chemist JA

Client/Project ALS Thermometer ID 1121

Date/Time Received: 11-4-22 Initials: CA Date/Time Logged in: 11-4-22 Initials CA

1. Method of delivery: US Mail Fed Ex UPS DHL Courier Client

2. Samples received in: Cooler Box Envelope Other _____

3. Were custody seals on coolers? Yes No If yes, how many and where?

Were they intact? Yes No N/A

Were they signed and dated? Yes No N/A

4. Packing Material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other _____

5. Foreign or Regulated Soil? Yes No Location of Sampling: _____

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
5531 4388 8071		11-4-22	0900	CA	2.7	<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

6. Were custody papers properly filled out (ink, signed, dated, etc)? Yes No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? Yes No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? Yes No

9. Were appropriate bottles/containers and volumes received for the requested tests? Yes No

10. Did sample labels and tags agree with custody documents? Yes No

Notes, Discrepancies, & Resolutions:

Service request Label:



10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 713 266 1599
F: +1 713 266 1599
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sample. The COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C.
- ✓ Air samples are shipped and stored cold, at 0 to 6°C
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report



Preparation Information Benchsheets

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 410141
 Team: Semivoa GCMS/NBIDJONGO

Prep WorkFlow: OrgExtAq(365)
 Prep Method: Method Sep Funnel/Jar

Status: Prepped
 Prep Date/Time: 11/16/22 13:48

#	Lab Code	Client ID	B#	Method /Test	pH	CI	Matrix	Amt. Ext.	Sample Description
1	E2201052-001	TK 109-115	.01	1613B/Dioxins Furans			Water	1056mL	Dark Green
2	E2201054-001	CTBD	.01	1613B/Dioxins Furans			Water	1093mL	yellow Clear
3	E2201066-001	Field Blank	.01	1613B/Dioxins Furans			Water	1036mL	Yellow
4	E2201066-002	MW-04	.01	1613B/Dioxins Furans			Water	1064mL	Clear
5	E2201066-003	MW-06	.01	1613B/Dioxins Furans			Water	1051mL	Clear
6	E2201066-004	MW-07	.01	1613B/Dioxins Furans			Water	1049mL	Yellow
7	E2201066-005	Duplicate	.01	1613B/Dioxins Furans			Water	1060mL	Yellow
8	E2201066-006	MW-08	.01	1613B/Dioxins Furans			Water	1050mL	Clear yellow
9	E2201066-007	Equipment Blank	.01	1613B/Dioxins Furans			Water	1056mL	Clear
10	E2201083-001	3271467-003	.01	1613B/Dioxins Furans			Drinking Water	1068mL	Yellow
11	E2201084-003	GP-BE-11-02-22	.01	1613B/Dioxins Furans			Water	2000mL	orange cloudy
12	E2201085-001	October 2022 F039 Analysis	.01	1613B/Dioxins Furans			Water	125mL	Dark Green
13	E2201086-001	LSW11-22-261361	.01	1613B/Dioxins Furans			Water	972mL	clear
14	E2201087-001	OF01 Composite	.01	1613B/Dioxins Furans			Water	1009mL	orange cloudy
15	E2201089-001	VT-680	.01	1613B/Dioxin Furans Unadjusted			Water	990.00	brown cloudy
16	E2201089-002	EDC Process	.01	1613B/Dioxin Furans Unadjusted			Water	1035.0	clear
17	E2201089-003	T2T-07	.01	1613B/Dioxin Furans Unadjusted			Water	1019.0	yellow clear
18	E2201089-004	Biological	.01	1613B/Dioxin Furans Unadjusted			Water	993.00	yellow clear
19	E2201089-005	Physical	.01	1613B/Dioxin Furans Unadjusted			Water	1012.0	clear yellow
20	EQ2200529-01	MB		1613B/Dioxins Furans			Liquid	1000.0	
21	EQ2200529-02	LCS		1613B/Dioxins Furans			Liquid	1000.0	
22	EQ2200529-03	DLCS		1613B/Dioxins Furans			Liquid	1000.0	

Spiking Solutions

Name:	1613B Labeled Working Standard	Inventory ID	226027	Logbook Ref:	NB 11/11/2022 226027 2-4ng/mL	Expires On:	04/10/2023
E2201052-001	1,000.00µL	E2201054-001	1,000.00µL	E2201066-001	1,000.00µL	E2201066-004	1,000.00µL
E2201066-005	1,000.00µL	E2201066-006	1,000.00µL	E2201066-007	1,000.00µL	E2201085-001	1,000.00µL
E2201086-001	1,000.00µL	E2201087-001	1,000.00µL	E2201089-001	1,000.00µL	E2201089-004	1,000.00µL
E2201089-005	1,000.00µL	EQ2200529-01	1,000.00µL	EQ2200529-01	1,000.00µL	EQ2200529-03	1,000.00µL
EQ2200529-03	1,000.00µL						

Name:	1613B Matrix Working Standard	Inventory ID	226039	Logbook Ref:	NB 11/14/2022 226039	Expires On:	05/13/2023
EQ2200529-02	100.00µL	EQ2200529-02	100.00µL	EQ2200529-03	100.00µL		

Preparation Information Benchsheet

Prep Run#: 410141
Prep WorkFlow: OrgExtAq(365)
Status: Prepped
Prep Date/Time: 11/16/22 13:48

Team: Sermivoa GCMS/NBIDJONGO
Prep Method: Method Sep Funnel/Jar

Name:	8290/1613B Cleanup Working Standard	Inventory ID	226078	Logbook Ref:	bf 11/15/222, 226078	Expires On:	02/28/2023
E2201052-001	100.00µL	E2201054-001	100.00µL	E2201066-002	100.00µL	E2201066-004	100.00µL
E2201066-005	100.00µL	E2201066-006	100.00µL	E2201083-001	100.00µL	E2201085-001	100.00µL
E2201086-001	100.00µL	E2201087-001	100.00µL	E2201089-002	100.00µL	E2201089-004	100.00µL
E2201089-005	100.00µL	EQ2200529-01	100.00µL	EQ2200529-02	100.00µL	EQ2200529-03	100.00µL
EQ2200529-03	100.00µL						

Preparation Materials

Carbon, High Purity	bf 11/09/22 (226103)	Glass Wool	TW 5/20/22 (225628)
Hexanes 95%	NB 11/03/2022 Hexane #10299537 (225859)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	tw 10/04/22 (225325)
Silica Gel	bf 11/08/22 (226238)	Toluene 99.9% Minimum	Bf 11/10/2022 (225991)
ColorpHast pH-Indicator Strips	pH-Indicator strips (217936)	Tridecane (n-Tridecane)	tw 08/15/22 (224552)

Preparation Steps

Step:	Extraction	Step:	Silica Gel Clean	Step:	Final Volume
Started:	11/16/22 13:48	Started:	11/17/22 09:00	Started:	11/23/22 09:00
Finished:	11/17/22 17:40	Finished:	11/17/22 17:40	Finished:	11/23/22 16:00
By:	NBIDJONGO	By:	NBIDJONGO	By:	NBIDJONGO
Comments		Comments		Comments	

Comments:

Reviewed By: TW Date: 11/16/22

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
 Yes _____ No _____



Analytical Results

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water
Sample Name: October 2022 F039 Analysis
Lab Code: E2201085-001

Service Request: E2201085
Date Collected: 11/01/22 10:00
Date Received: 11/04/22 09:00
Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 125mL
Data File Name: P633357
ICAL Date: 03/15/22

Date Analyzed: 11/30/22 02:14
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P633355
Cal Ver. File Name: P633352

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	21.5JK		6.99	40.0	0.26	1.001	1
1,2,3,7,8-PeCDD	17.6J		2.59	200	1.46	1.000	1
1,2,3,4,7,8-HxCDD	28.7J		3.52	200	1.28	1.000	1
1,2,3,6,7,8-HxCDD	13.1JK		3.20	200	0.86	1.000	1
1,2,3,7,8,9-HxCDD	10.4BJ		3.23	200	1.22	1.007	1
1,2,3,4,6,7,8-HpCDD	125J		9.04	200	0.89	1.000	1
OCDD	1070		6.63	400	0.84	1.000	1
2,3,7,8-TCDF	21.5J		6.11	40.0	0.89	1.000	1
1,2,3,7,8-PeCDF	141J		4.56	200	1.44	1.000	1
2,3,4,7,8-PeCDF	135J		4.85	200	1.70	1.001	1
1,2,3,4,7,8-HxCDF	1110		9.04	200	1.19	1.000	1
1,2,3,6,7,8-HxCDF	378		10.1	200	1.20	1.000	1
1,2,3,7,8,9-HxCDF	37.8JK		11.8	200	1.02	1.001	1
2,3,4,6,7,8-HxCDF	92.3J		8.51	200	1.22	1.000	1
1,2,3,4,6,7,8-HpCDF	6340		11.6	200	1.00	1.000	1
1,2,3,4,7,8,9-HpCDF	130J		12.9	200	0.92	1.000	1
OCDF	6700		6.26	400	0.85	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water

Service Request: E2201085
Date Collected: 11/01/22 10:00
Date Received: 11/04/22 09:00

Sample Name: October 2022 F039 Analysis
Lab Code: E2201085-001

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 125mL

Data File Name: P633357
ICAL Date: 03/15/22

Date Analyzed: 11/30/22 02:14
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P633355
Cal Ver. File Name: P633352

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	36.1J		6.99	40.0	0.83		1
Total Penta-Dioxins	27.0J		2.59	200	1.37		1
Total Hexa-Dioxins	72.2J		3.32	200	1.41		1
Total Hepta-Dioxins	245		9.04	200	1.01		1
Total Tetra-Furans	743		6.11	40.0	0.69		1
Total Penta-Furans	1460		4.70	200	1.49		1
Total Hexa-Furans	2920		9.73	200	1.10		1
Total Hepta-Furans	6900		12.2	200	1.00		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water

Service Request: E2201085
Date Collected: 11/01/22 10:00
Date Received: 11/04/22 09:00

Sample Name: October 2022 F039 Analysis
Lab Code: E2201085-001

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 125mL

Date Analyzed: 11/30/22 02:14
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P633355
Cal Ver. File Name: P633352

Data File Name: P633357
ICAL Date: 03/15/22

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1604.494	80		25-164	0.79	1.020
13C-1,2,3,7,8-PeCDD	2000	1487.650	74		25-181	1.58	1.176
13C-1,2,3,4,7,8-HxCDD	2000	1381.318	69		32-141	1.26	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1507.568	75		28-130	1.24	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1358.714	68		23-140	1.03	1.066
13C-OCDD	4000	2294.003	57		17-157	0.89	1.142
13C-2,3,7,8-TCDF	2000	1400.882	70		24-169	0.77	0.994
13C-1,2,3,7,8-PeCDF	2000	1449.354	72		24-185	1.55	1.136
13C-2,3,4,7,8-PeCDF	2000	1346.212	67		21-178	1.56	1.167
13C-1,2,3,4,7,8-HxCDF	2000	1303.693	65		26-152	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1133.593	57		26-123	0.51	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1220.018	61		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1446.546	72		28-136	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1024.480	51		28-143	0.43	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1220.102	61		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	4905.450	613	Y	35-197	NA	1.021

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water

Service Request: E2201085
Date Collected: 11/01/22 10:00
Date Received: 11/04/22 09:00

Sample Name: October 2022 F039 Analysis
Lab Code: E2201085-001

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	21.5	6.99	40.0	1	1	21.5
1,2,3,7,8-PeCDD	17.6	2.59	200	1	1	17.6
1,2,3,4,7,8-HxCDD	28.7	3.52	200	1	0.1	2.87
1,2,3,6,7,8-HxCDD	13.1	3.20	200	1	0.1	1.31
1,2,3,7,8,9-HxCDD	10.4	3.23	200	1	0.1	1.04
1,2,3,4,6,7,8-HpCDD	125	9.04	200	1	0.01	1.25
OCDD	1070	6.63	400	1	0.0003	0.321
2,3,7,8-TCDF	21.5	6.11	40.0	1	0.1	2.15
1,2,3,7,8-PeCDF	141	4.56	200	1	0.03	4.23
2,3,4,7,8-PeCDF	135	4.85	200	1	0.3	40.5
1,2,3,4,7,8-HxCDF	1110	9.04	200	1	0.1	111
1,2,3,6,7,8-HxCDF	378	10.1	200	1	0.1	37.8
1,2,3,7,8,9-HxCDF	37.8	11.8	200	1	0.1	3.78
2,3,4,6,7,8-HxCDF	92.3	8.51	200	1	0.1	9.23
1,2,3,4,6,7,8-HpCDF	6340	11.6	200	1	0.01	63.4
1,2,3,4,7,8,9-HpCDF	130	12.9	200	1	0.01	1.30
OCDF	6700	6.26	400	1	0.0003	2.01
Total TEQ						321

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water

Service Request: E2201085
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2200529-01

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000.0mL

Date Analyzed: 11/30/22 00:34
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P633355
ICAL Date: 03/15/22

Blank File Name: P633355
Cal Ver. File Name: P633352

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.808	5.00			1
1,2,3,7,8-PeCDD	0.862JK		0.681	25.0	0.98	1.000	1
1,2,3,4,7,8-HxCDD	1.50JK		0.405	25.0	2.04	1.001	1
1,2,3,6,7,8-HxCDD	0.888JK		0.357	25.0	0.92	1.000	1
1,2,3,7,8,9-HxCDD	1.06J		0.365	25.0	1.10	1.006	1
1,2,3,4,6,7,8-HpCDD	2.43J		0.444	25.0	0.89	1.000	1
OCDD	14.6JK		0.896	50.0	1.14	1.000	1
2,3,7,8-TCDF	ND	U	0.474	5.00			1
1,2,3,7,8-PeCDF	ND	U	0.401	25.0			1
2,3,4,7,8-PeCDF	0.851J		0.405	25.0	1.45	1.001	1
1,2,3,4,7,8-HxCDF	0.634J		0.256	25.0	1.11	1.000	1
1,2,3,6,7,8-HxCDF	0.843JK		0.280	25.0	0.95	1.000	1
1,2,3,7,8,9-HxCDF	1.81JK		0.321	25.0	1.47	1.000	1
2,3,4,6,7,8-HxCDF	0.807JK		0.224	25.0	0.88	1.000	1
1,2,3,4,6,7,8-HpCDF	ND	U	2.05	25.0			1
1,2,3,4,7,8,9-HpCDF	ND	U	1.56	25.0			1
OCDF	2.93JK		1.58	50.0	1.24	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ2200529-01

Service Request: E2201085
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000.0mL
Data File Name: P633355
ICAL Date: 03/15/22

Date Analyzed: 11/30/22 00:34
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P633355
Cal Ver. File Name: P633352

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.808	5.00			1
Total Penta-Dioxins	ND	U	0.681	25.0			1
Total Hexa-Dioxins	1.06J		0.374	25.0	1.10		1
Total Hepta-Dioxins	2.43J		0.444	25.0	0.89		1
Total Tetra-Furans	ND	U	0.474	5.00			1
Total Penta-Furans	1.70J		0.403	25.0	1.45		1
Total Hexa-Furans	0.634J		0.266	25.0	1.11		1
Total Hepta-Furans	ND	U	1.75	25.0			1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ2200529-01

Service Request: E2201085
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000.0mL
Data File Name: P633355
ICAL Date: 03/15/22

Date Analyzed: 11/30/22 00:34
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P633355
Cal Ver. File Name: P633352

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1518.062	76		25-164	0.79	1.020
13C-1,2,3,7,8-PeCDD	2000	1332.054	67		25-181	1.58	1.176
13C-1,2,3,4,7,8-HxCDD	2000	1172.363	59		32-141	1.24	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1351.607	68		28-130	1.27	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1173.418	59		23-140	1.03	1.066
13C-OCDD	4000	1694.028	42		17-157	0.89	1.142
13C-2,3,7,8-TCDF	2000	1353.501	68		24-169	0.78	0.994
13C-1,2,3,7,8-PeCDF	2000	1233.475	62		24-185	1.55	1.136
13C-2,3,4,7,8-PeCDF	2000	1188.656	59		21-178	1.56	1.167
13C-1,2,3,4,7,8-HxCDF	2000	1124.588	56		26-152	0.54	0.972
13C-1,2,3,6,7,8-HxCDF	2000	987.392	49		26-123	0.51	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1068.512	53		29-147	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1291.907	65		28-136	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	561.660	28		28-143	0.44	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1016.038	51		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	5290.191	661	Y	35-197	NA	1.020



Accuracy & Precision

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water

Service Request: E2201085
Date Analyzed: 11/30/22
Date Extracted: 11/16/22

Duplicate Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar

Units: pg/L
Basis: NA
Analysis Lot: 786890

Lab Control Sample
EQ2200529-02

Duplicate Lab Control Sample
EQ2200529-03

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec	RPD	RPD Limit
							Limits		
1,2,3,4,6,7,8-HpCDD	810	1000	81	864	1000	86	70-140	6	50
1,2,3,4,7,8-HxCDD	914	1000	91	955	1000	95	70-164	4	50
1,2,3,6,7,8-HxCDD	844	1000	84	871	1000	87	76-134	3	50
1,2,3,7,8,9-HxCDD	953	1000	95	981	1000	98	64-162	3	50
1,2,3,7,8-PeCDD	895	1000	90	948	1000	95	70-142	6	50
2,3,7,8-TCDD	167	200	84	173	200	87	67-158	4	50
OCDD	1880	2000	94	2000	2000	100	78-144	7	50
1,2,3,4,6,7,8-HpCDF	871	1000	87	898	1000	90	82-122	3	50
1,2,3,4,7,8,9-HpCDF	786	1000	79	824	1000	82	78-138	5	50
1,2,3,4,7,8-HxCDF	799	1000	80	842	1000	84	72-134	5	50
1,2,3,6,7,8-HxCDF	896	1000	90	918	1000	92	84-130	2	50
1,2,3,7,8,9-HxCDF	844	1000	84	881	1000	88	78-130	4	50
1,2,3,7,8-PeCDF	802	1000	80	843	1000	84	80-134	5	50
2,3,4,6,7,8-HxCDF	725	1000	73	754	1000	75	70-156	4	50
2,3,4,7,8-PeCDF	883	1000	88	926	1000	93	68-160	5	50
2,3,7,8-TCDF	164	200	82	165	200	83	75-158	1	50
OCDF	1650	2000	83	1740	2000	87	63-170	5	50

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water
Sample Name: Lab Control Sample
Lab Code: EQ2200529-02

Service Request: E2201085
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000.0mL
Data File Name: P633362
ICAL Date: 03/15/22

Date Analyzed: 11/30/22 06:23
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P633355
Cal Ver. File Name: P633352

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	167		0.475	5.00	0.71	1.001	1
1,2,3,7,8-PeCDD	895		0.306	25.0	1.54	1.000	1
1,2,3,4,7,8-HxCDD	914		0.269	25.0	1.24	1.000	1
1,2,3,6,7,8-HxCDD	844		0.241	25.0	1.23	1.000	1
1,2,3,7,8,9-HxCDD	953		0.245	25.0	1.24	1.007	1
1,2,3,4,6,7,8-HpCDD	810		0.380	25.0	1.00	1.000	1
OCDD	1880		4.53	50.0	0.88	1.000	1
2,3,7,8-TCDF	164		0.313	5.00	0.77	1.001	1
1,2,3,7,8-PeCDF	802		0.267	25.0	1.52	1.000	1
2,3,4,7,8-PeCDF	883		0.281	25.0	1.53	1.000	1
1,2,3,4,7,8-HxCDF	799		0.0990	25.0	1.20	1.000	1
1,2,3,6,7,8-HxCDF	896		0.106	25.0	1.20	1.000	1
1,2,3,7,8,9-HxCDF	844		0.117	25.0	1.19	1.000	1
2,3,4,6,7,8-HxCDF	725		0.0880	25.0	1.21	1.000	1
1,2,3,4,6,7,8-HpCDF	871		1.18	25.0	0.97	1.000	1
1,2,3,4,7,8,9-HpCDF	786		1.35	25.0	1.00	1.000	1
OCDF	1650		0.697	50.0	0.87	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water

Service Request: E2201085
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2200529-02

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000.0mL

Date Analyzed: 11/30/22 06:23
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P633362
ICAL Date: 03/15/22

Blank File Name: P633355
Cal Ver. File Name: P633352

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	167		0.475	5.00	0.71		1
Total Penta-Dioxins	895		0.306	25.0	1.54		1
Total Hexa-Dioxins	2710		0.251	25.0	1.24		1
Total Hepta-Dioxins	810		0.380	25.0	1.00		1
Total Tetra-Furans	165		0.313	5.00	0.66		1
Total Penta-Furans	1700		0.274	25.0	1.52		1
Total Hexa-Furans	3260		0.102	25.0	1.20		1
Total Hepta-Furans	1660		1.26	25.0	0.97		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water

Service Request: E2201085
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2200529-02

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000.0mL

Date Analyzed: 11/30/22 06:23
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P633362
ICAL Date: 03/15/22

Blank File Name: P633355
Cal Ver. File Name: P633352

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1839.459	92		25-164	0.79	1.020
13C-1,2,3,7,8-PeCDD	2000	1757.317	88		25-181	1.60	1.177
13C-1,2,3,4,7,8-HxCDD	2000	1584.317	79		32-141	1.23	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1782.835	89		28-130	1.22	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1666.648	83		23-140	1.04	1.066
13C-OCDD	4000	2470.532	62		17-157	0.89	1.142
13C-2,3,7,8-TCDF	2000	1539.965	77		24-169	0.76	0.994
13C-1,2,3,7,8-PeCDF	2000	1680.119	84		24-185	1.55	1.136
13C-2,3,4,7,8-PeCDF	2000	1539.907	77		21-178	1.53	1.167
13C-1,2,3,4,7,8-HxCDF	2000	1526.562	76		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1348.679	67		26-123	0.52	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1527.382	76		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1716.983	86		28-136	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1239.659	62		28-143	0.43	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1417.501	71		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	5359.089	670	Y	35-197	NA	1.021

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water
Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200529-03

Service Request: E2201085
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000.0mL
Data File Name: P633363
ICAL Date: 03/15/22

Date Analyzed: 11/30/22 07:13
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P633355
Cal Ver. File Name: P633352

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	173		0.739	5.00	0.73	1.001	1
1,2,3,7,8-PeCDD	948		0.753	25.0	1.51	1.001	1
1,2,3,4,7,8-HxCDD	955		0.467	25.0	1.25	1.000	1
1,2,3,6,7,8-HxCDD	871		0.432	25.0	1.22	1.000	1
1,2,3,7,8,9-HxCDD	981		0.431	25.0	1.25	1.007	1
1,2,3,4,6,7,8-HpCDD	864		0.548	25.0	1.01	1.000	1
OCDD	2000		0.776	50.0	0.86	1.000	1
2,3,7,8-TCDF	165		0.388	5.00	0.75	1.000	1
1,2,3,7,8-PeCDF	843		0.537	25.0	1.52	1.000	1
2,3,4,7,8-PeCDF	926		0.553	25.0	1.54	1.001	1
1,2,3,4,7,8-HxCDF	842		0.291	25.0	1.19	1.000	1
1,2,3,6,7,8-HxCDF	918		0.324	25.0	1.23	1.000	1
1,2,3,7,8,9-HxCDF	881		0.338	25.0	1.19	1.000	1
2,3,4,6,7,8-HxCDF	754		0.266	25.0	1.17	1.000	1
1,2,3,4,6,7,8-HpCDF	898		1.29	25.0	0.99	1.000	1
1,2,3,4,7,8,9-HpCDF	824		1.50	25.0	0.98	1.000	1
OCDF	1740		0.837	50.0	0.87	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water

Service Request: E2201085
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200529-03

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000.0mL

Date Analyzed: 11/30/22 07:13
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P633355
Cal Ver. File Name: P633352

Data File Name: P633363
ICAL Date: 03/15/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	173		0.739	5.00	0.73		1
Total Penta-Dioxins	948		0.753	25.0	1.51		1
Total Hexa-Dioxins	2810		0.443	25.0	1.25		1
Total Hepta-Dioxins	870		0.548	25.0	0.96		1
Total Tetra-Furans	166		0.388	5.00	0.83		1
Total Penta-Furans	1780		0.545	25.0	1.44		1
Total Hexa-Furans	3390		0.303	25.0	1.19		1
Total Hepta-Furans	1720		1.39	25.0	0.99		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22110213
Sample Matrix: Water

Service Request: E2201085
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200529-03

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000.0mL

Date Analyzed: 11/30/22 07:13
Date Extracted: 11/16/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P633363
ICAL Date: 03/15/22

Blank File Name: P633355
Cal Ver. File Name: P633352

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1352.809	68		25-164	0.78	1.020
13C-1,2,3,7,8-PeCDD	2000	1327.183	66		25-181	1.61	1.176
13C-1,2,3,4,7,8-HxCDD	2000	1246.342	62		32-141	1.26	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1361.661	68		28-130	1.23	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1226.520	61		23-140	1.03	1.066
13C-OCDD	4000	1924.750	48		17-157	0.89	1.142
13C-2,3,7,8-TCDF	2000	1143.524	57		24-169	0.78	0.994
13C-1,2,3,7,8-PeCDF	2000	1258.619	63		24-185	1.56	1.136
13C-2,3,4,7,8-PeCDF	2000	1183.313	59		21-178	1.55	1.167
13C-1,2,3,4,7,8-HxCDF	2000	1164.202	58		26-152	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1038.779	52		26-123	0.51	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1195.454	60		29-147	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1325.126	66		28-136	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	954.364	48		28-143	0.43	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1091.428	55		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	4333.294	542	Y	35-197	NA	1.021