



REPUBLIC
SERVICES

28470 Citrin Drive Romulus, MI 48174
o 734 946 1000 republicservices.com

April 5th, 2023

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

Re: RIES Monthly Report

Dear Mr. Andrew Greenhagen:

Republic Industrial and Energy Solutions, LLC (RIES) hereby submits the hundred and eighth 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 January of 2023 so as stated on page A-3 of 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 K. Frost

cc: Rick Sauve (Republic Services)

AVERAGE INJECTION RATE

Calculation of Average Injection RateCURRENT REPORTING YEAR 2023CURRENT REPORTING MONTH JanuaryDate (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	607,420	0	607,420
Since facility first injected			51,366,460
MI-163-1W-C011, Well #2-12			
Current Month	735,180	0	735,180
Since facility first injected			31,612,583
		Lifetime Combined	82,979,043

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

CalculationsWhole number of months of injection 109

109 lifetime number of months of injection × 43,830 minutes/month
= 4,777,470 minutes of injection

Lifetime combined injected volume 82,979,043 ÷ 4,777,470 minutes of injection
= 17.37 gpm average injection rate

WELL 1 DATA



Injection Well 1, January 2023

	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
1/1/2023	102.9	108.5	22.7	22.8	905.2	907.6	7.1	7.3	0.0	0.0	796.7	804.2
1/2/2023	99.5	103.1	22.7	22.8	901.7	907.0	7.0	7.1	0.0	0.0	801.9	804.3
1/3/2023	98.2	941.5	22.7	22.8	899.1	1,178.4	6.8	7.7	0.0	25.8	184.6	803.2
1/4/2023	106.3	940.2	22.8	22.9	856.4	1,164.1	6.2	10.4	0.0	25.9	192.9	770.1
1/5/2023	105.7	940.1	22.8	22.9	855.0	1,168.9	6.4	9.6	0.0	23.1	207.2	766.3
1/6/2023	93.5	940.4	22.0	22.8	850.6	1,274.8	5.1	7.9	0.0	64.1	150.2	821.8
1/7/2023	28.9	905.3	21.9	22.0	978.1	1,308.0	3.5	7.6	0.0	64.1	326.3	983.9
1/8/2023	29.4	42.7	21.9	22.0	991.1	1,014.6	5.5	7.0	0.0	0.0	948.6	985.1
1/9/2023	25.6	939.1	21.9	22.0	1004.3	1,304.0	4.4	7.7	0.0	42.3	306.7	987.8
1/10/2023	115.3	939.8	21.9	22.0	987.2	1,293.4	6.9	7.4	0.0	40.5	266.5	888.1
1/11/2023	129.0	940.1	21.9	22.0	963.6	1,267.6	2.4	7.3	0.0	61.1	254.3	847.8
1/12/2023	128.8	939.4	22.0	22.0	955.5	1,276.8	1.9	6.6	0.0	40.1	288.2	845.1
1/13/2023	141.6	940.1	21.9	22.0	972.0	1,331.7	1.8	6.9	0.0	40.1	335.4	844.6
1/14/2023	121.5	157.0	21.9	22.0	970.9	989.6	5.8	5.9	0.0	0.0	815.6	867.8
1/15/2023	113.5	121.8	21.8	21.9	983.8	989.3	5.9	5.9	0.0	0.0	866.6	871.2
1/16/2023	96.6	939.5	21.8	22.0	967.0	1,268.3	1.9	6.8	0.0	39.3	266.1	886.3
1/17/2023	105.8	940.1	21.9	22.1	908.7	1,226.9	1.7	6.4	0.0	41.7	257.8	831.3
1/18/2023	117.1	938.5	22.0	22.1	865.9	1,235.8	1.5	6.6	0.0	72.4	265.3	816.6
1/19/2023	6.9	877.1	22.0	22.1	817.3	1,175.6	1.1	7.3	0.0	72.1	298.3	831.0
1/20/2023	114.3	939.5	22.0	22.1	880.6	1,208.9	2.1	7.7	0.0	51.5	268.7	786.4
1/21/2023	124.2	142.0	21.9	22.0	904.3	935.5	5.3	6.5	0.0	0.0	762.3	811.2
1/22/2023	116.9	124.5	21.9	22.0	932.2	935.7	5.8	6.0	0.0	0.0	810.4	816.2
1/23/2023	110.1	939.8	21.9	22.0	882.3	1,211.3	2.1	7.4	0.0	49.7	240.4	822.3
1/24/2023	120.2	940.0	21.9	22.0	724.6	1,200.0	1.7	9.8	0.0	50.2	159.4	784.1
1/25/2023	149.6	940.0	21.9	22.0	751.0	1,203.8	1.9	8.0	0.0	70.9	155.3	717.5
1/26/2023	144.6	940.0	20.7	22.0	849.7	1,391.4	1.6	7.4	0.0	60.7	149.7	870.6
1/27/2023	145.5	940.0	20.8	20.9	1053.7	1,376.8	1.6	7.4	0.0	61.0	413.2	967.8
1/28/2023	139.5	160.1	20.8	20.8	1083.4	1,131.0	6.8	7.2	0.0	0.0	923.3	991.4
1/29/2023	129.6	139.8	20.8	20.8	1127.5	1,131.5	6.7	6.8	0.0	0.0	990.7	998.5
1/30/2023	126.5	939.5	20.7	20.8	1039.0	1,382.0	1.8	7.8	0.0	49.5	377.1	1001.0
1/31/2023	137.9	940.2	20.7	20.8	1010.8	1,333.4	1.9	7.9	0.0	49.3	355.6	940.1

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

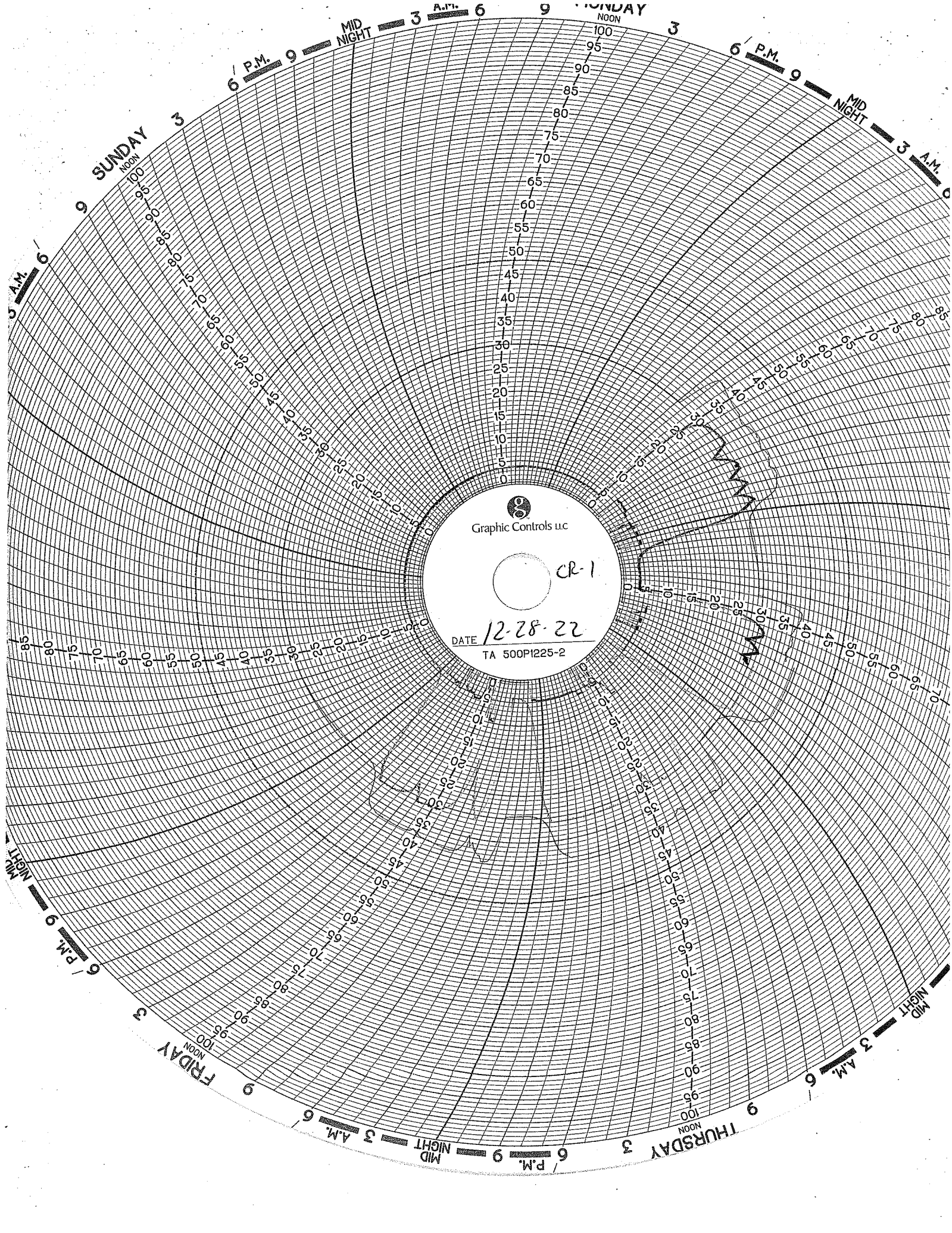
Red Pen – Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

Channel #4

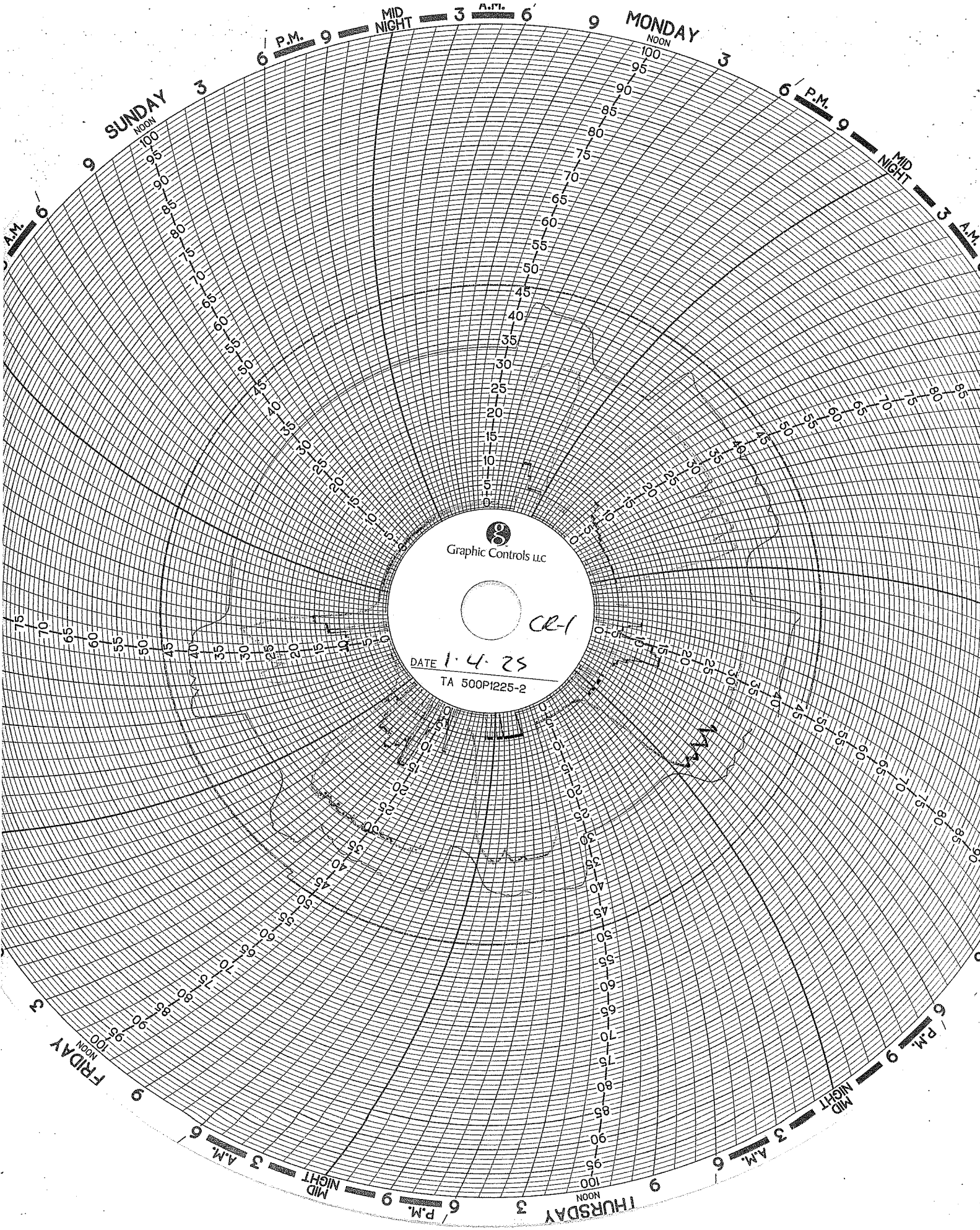
Black Pen – Temperature (chart value x 0)



Graphic Controls LLC

CR-1

DATE 12-28-22
TA 500PI225-2

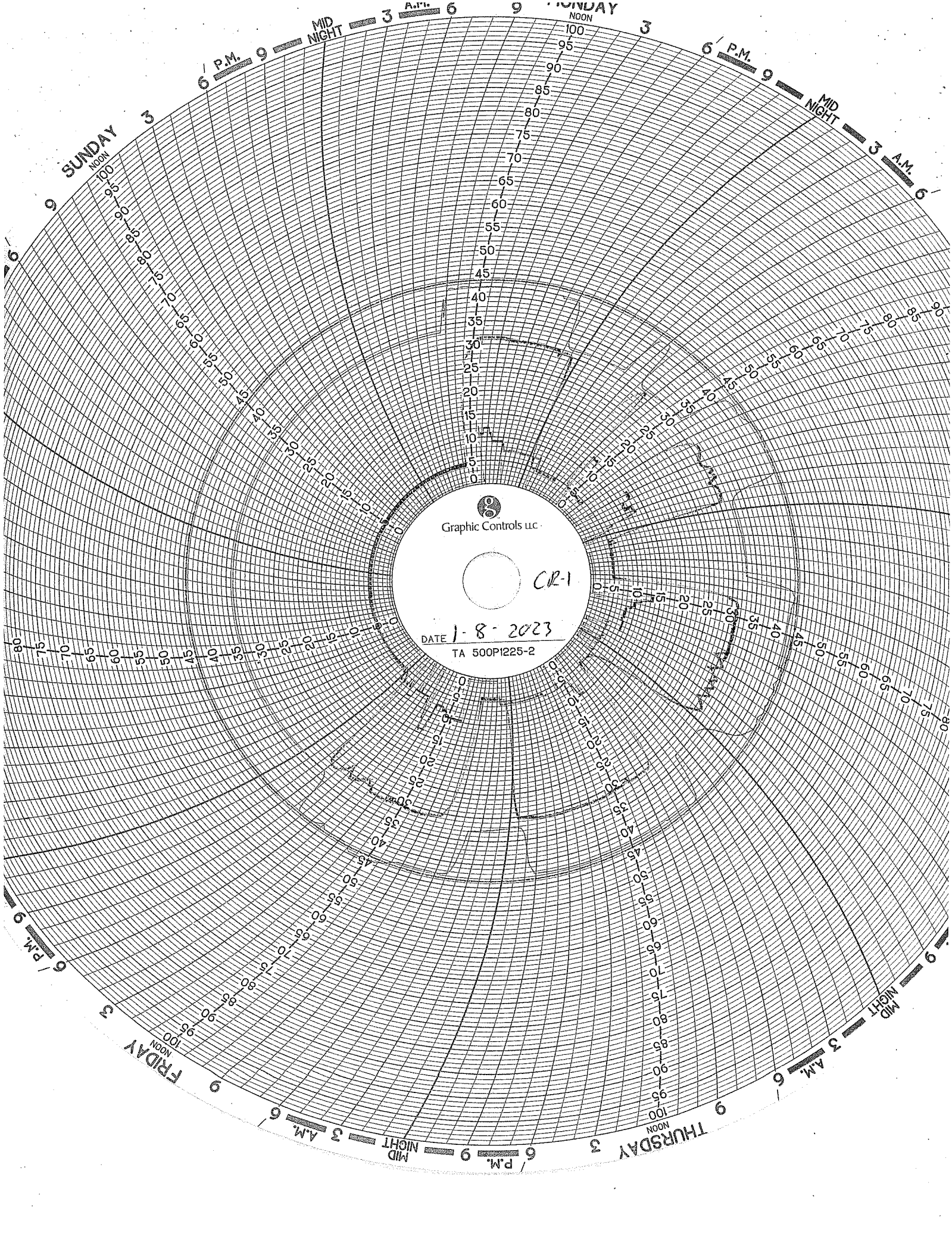


Graphic Controls LLC

CR-1

DATE 1.4.25

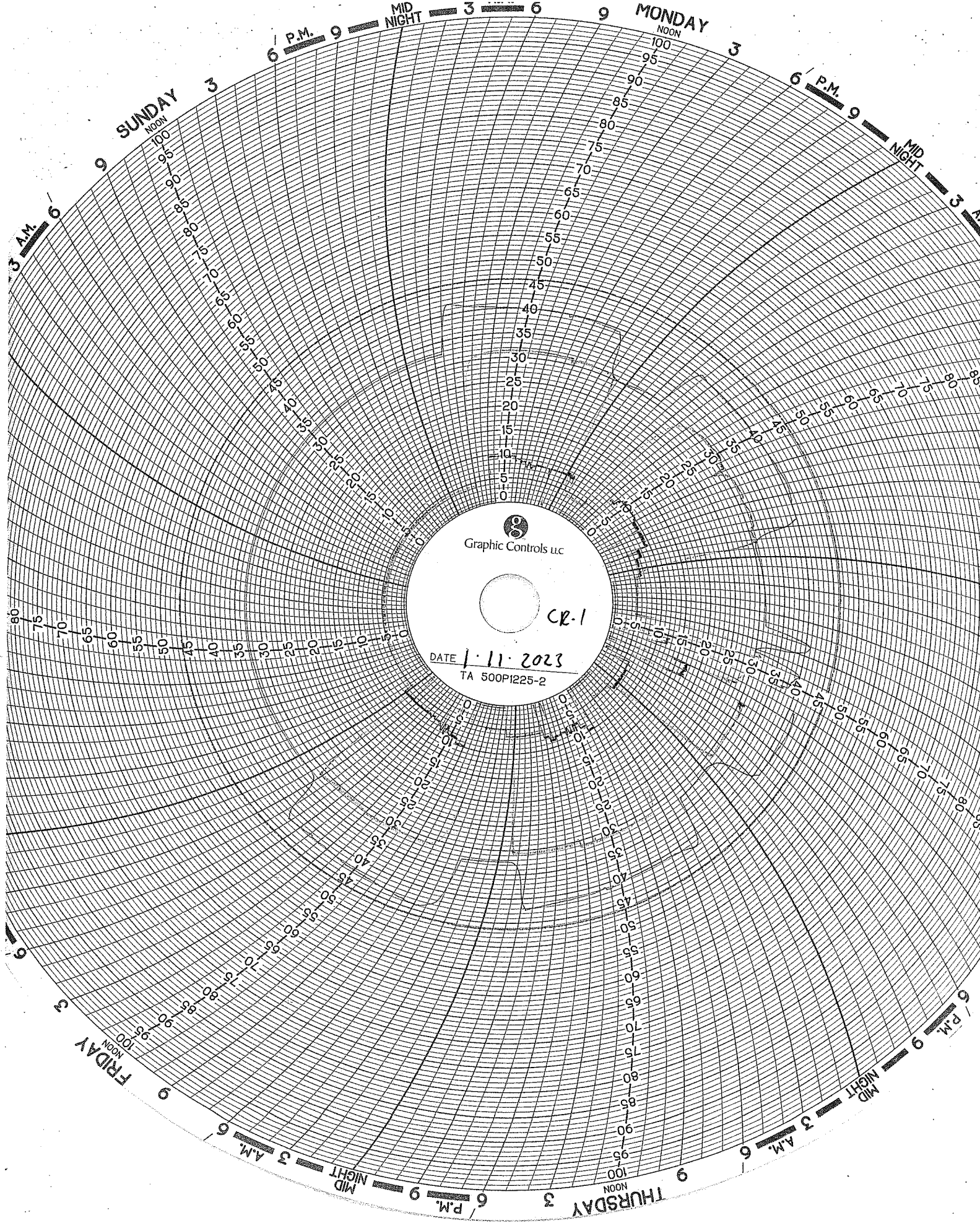
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Graphic Controls LLC

CR-1

DATE 1-8-2023
TA 500P1225-2

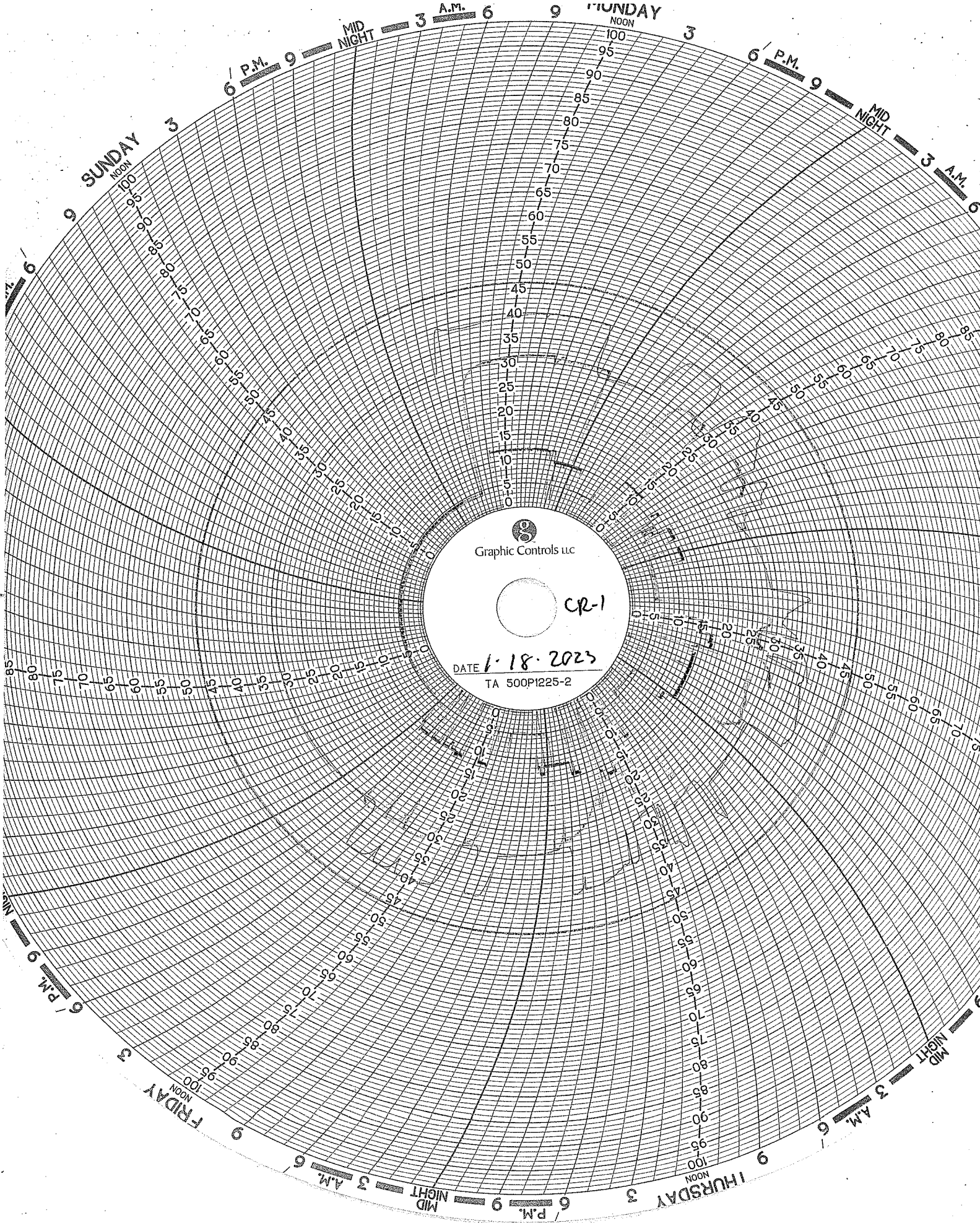


Graphic Controls LLC

CR-1

DATE 1.11.2023

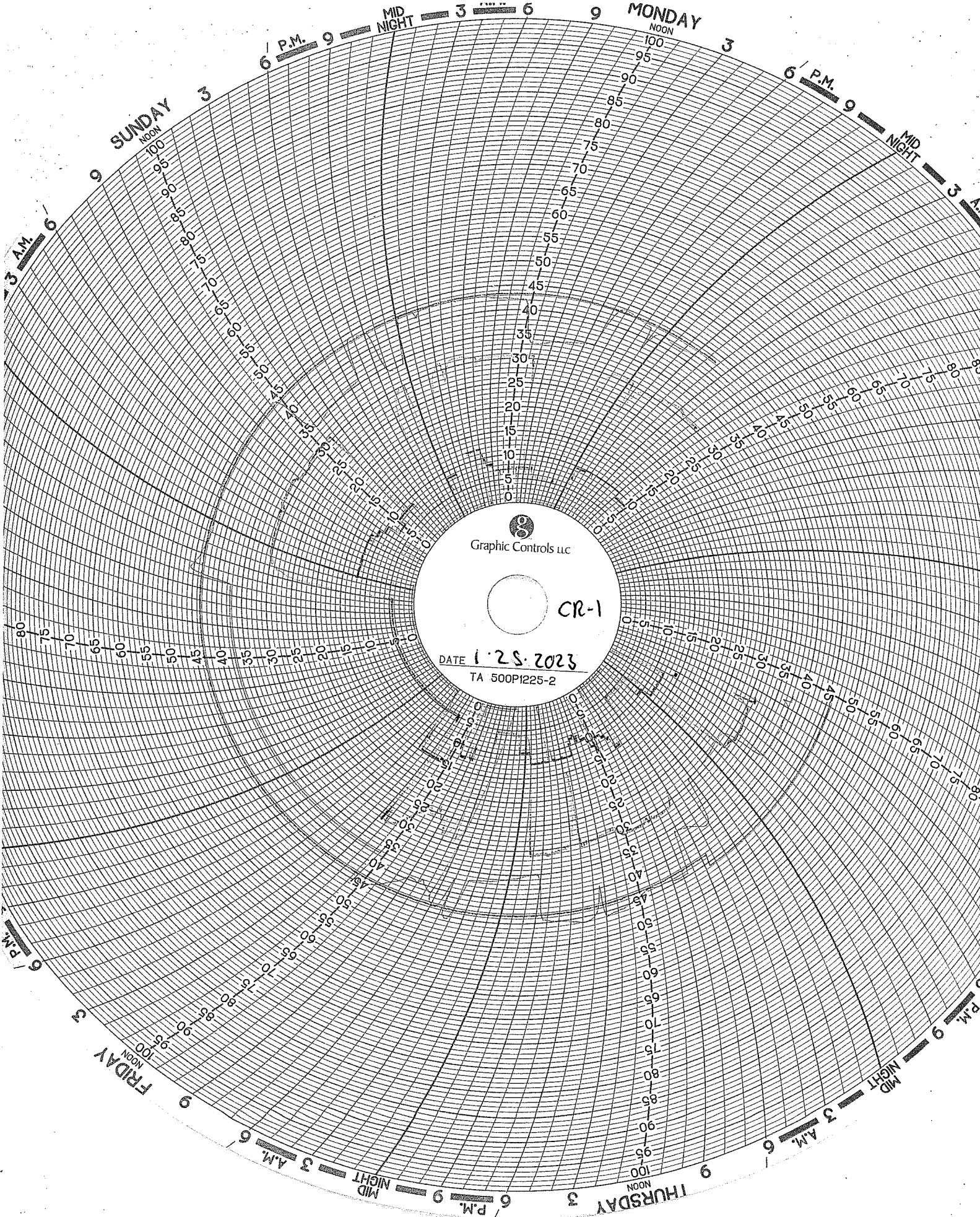
TA 500P1225-2



Graphic Controls LLC

CR-1

DATE 1-18-2023
TA 500P1225-2



Graphic Controls LLC

CR-1

DATE 1.28.2023

TA 500P1225-2

WELL 2 DATA



Injection Well 2, January 2023

	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
1/1/2023	107.5	116.7	30.6	30.6	1065.7	1073.2	7.1	7.3	0.0	0.0	949.0	965.6
1/2/2023	102.4	108.2	30.6	30.6	1072.7	1075.1	7.0	7.1	0.0	0.0	964.6	972.5
1/3/2023	100.0	946.5	30.6	30.6	1074.4	1,326.2	6.8	7.7	0.0	27.4	336.8	975.0
1/4/2023	116.7	943.9	30.6	30.7	1030.3	1,311.0	6.2	10.4	0.0	27.9	327.6	934.6
1/5/2023	114.7	945.5	30.6	30.7	1,032.5	1,323.4	6.4	9.6	0.0	27.1	365.3	937.2
1/6/2023	138.8	951.1	30.6	30.7	1040.3	1,331.2	5.0	7.9	0.0	68.8	300.2	901.5
1/7/2023	32.3	904.9	30.6	30.6	996.4	1,292.9	3.5	7.6	0.0	63.4	327.1	983.1
1/8/2023	39.4	65.0	30.5	30.6	1,004.3	1,035.6	5.5	7.0	0.0	0.0	939.3	996.1
1/9/2023	34.0	938.7	30.5	30.5	1035.2	1,303.2	4.4	7.5	0.0	41.4	310.5	1005.6
1/10/2023	128.4	939.5	30.5	30.6	1,012.3	1,288.8	6.9	7.4	0.0	41.1	264.4	902.1
1/11/2023	150.9	940.1	30.5	30.6	989.3	1,288.8	2.5	7.3	0.0	61.0	260.0	852.8
1/12/2023	157.0	944.9	30.6	30.7	998.3	1,310.2	1.9	6.6	0.0	44.8	312.8	857.6
1/13/2023	172.4	942.2	30.5	30.6	1,028.7	1,375.0	1.8	6.9	0.0	51.1	372.4	865.4
1/14/2023	139.3	213.1	30.4	30.6	1,027.7	1,052.2	5.8	5.9	0.0	0.0	819.3	912.8
1/15/2023	125.1	139.9	30.4	30.4	1,051.8	1,054.4	5.9	5.9	0.0	0.0	911.9	929.2
1/16/2023	122.5	939.7	30.4	30.6	1,054.2	1,305.0	1.9	6.8	0.0	52.9	322.5	932.4
1/17/2023	126.6	940.1	30.5	30.7	982.5	1,290.2	1.6	6.4	0.0	51.5	319.0	884.4
1/18/2023	155.4	896.4	30.6	30.7	940.0	1,285.8	1.5	6.6	0.0	72.1	357.1	876.0
1/19/2023	114.7	830.4	30.6	30.7	927.0	1,230.8	1.1	7.3	0.0	72.9	399.8	873.6
1/20/2023	168.0	909.6	30.6	30.7	981.8	1,276.0	2.1	7.7	0.0	62.2	360.4	849.4
1/21/2023	144.0	197.7	30.5	30.7	1010.3	1,042.6	5.3	6.5	0.0	0.0	812.6	898.6
1/22/2023	128.4	144.7	30.5	30.5	1,042.1	1,044.5	5.8	6.0	0.0	0.0	897.4	916.0
1/23/2023	122.7	923.6	30.4	30.6	1,011.3	1,307.7	2.2	7.5	0.0	52.7	381.4	921.8
1/24/2023	165.2	928.5	30.6	30.6	859.4	1,297.8	1.7	9.8	0.0	62.5	281.5	863.9
1/25/2023	187.0	918.3	30.5	30.6	880.5	1259.8	1.9	8.0	0.0	72.1	257.1	810.4
1/26/2023	197.4	939.4	30.6	30.7	954.0	1251.3	1.6	7.4	0.0	66.4	234.7	821.4
1/27/2023	222.4	933.0	30.5	30.6	952.0	1240.4	1.6	7.4	0.0	62.2	296.1	783.5
1/28/2023	171.8	254.5	30.5	30.6	991.7	1033.9	6.8	7.2	0.0	0.0	737.2	862.1
1/29/2023	147.9	172.1	30.4	30.5	1033.5	1036.8	6.7	6.8	0.0	0.0	861.5	888.8
1/30/2023	144.1	945.3	30.4	30.5	960.6	1258.7	1.8	7.8	0.0	61.5	271.8	892.8
1/31/2023	186.1	943.2	30.4	30.5	921.7	1223.2	1.9	7.9	0.0	51.5	236.7	814.5

Circle Chart Index

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

Chart Recorder #1

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #2

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #3

Channel #1

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

Channel #2

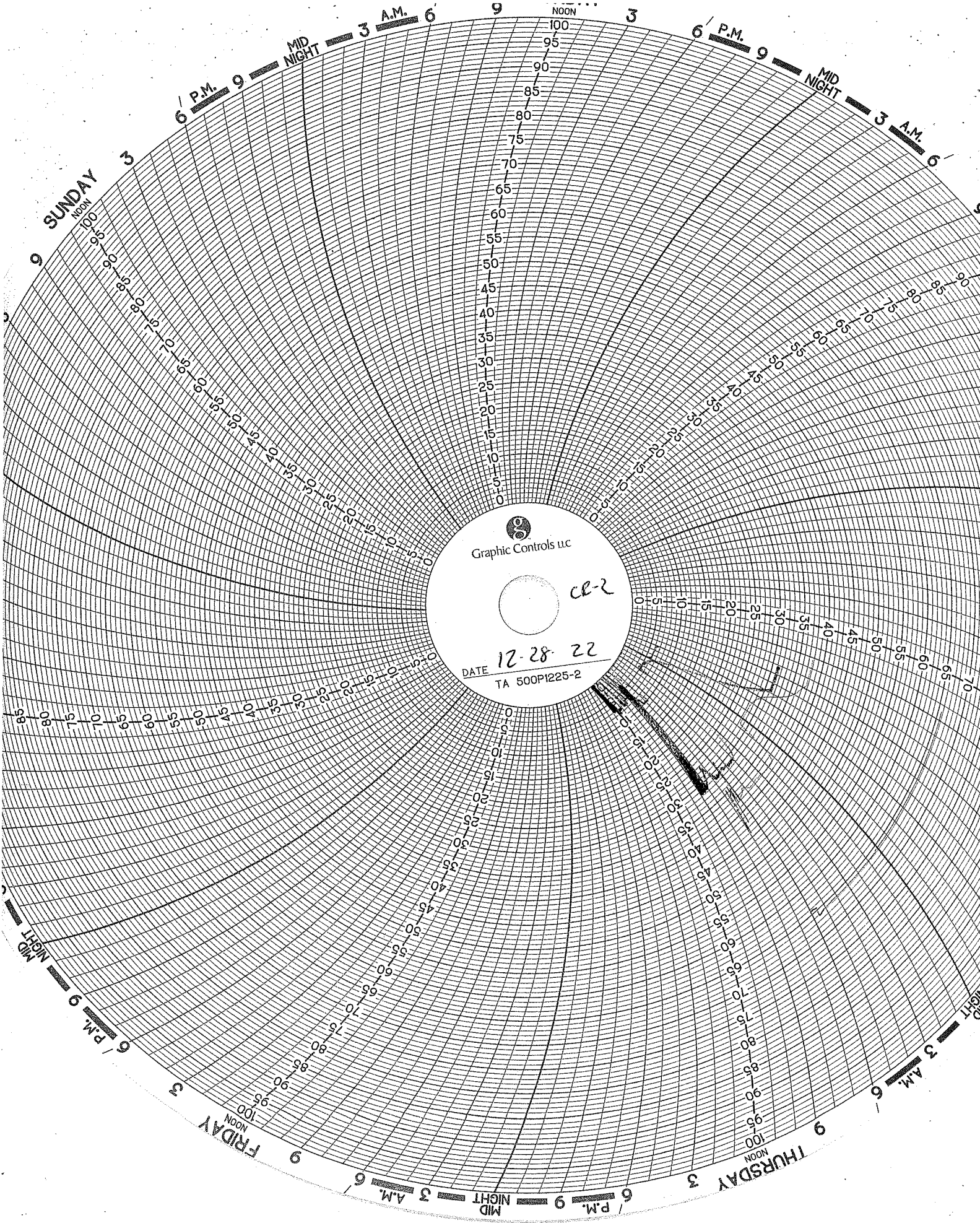
Red Pen – Well 1 Monthly Volume (chart value x 100,000)

Channel #3

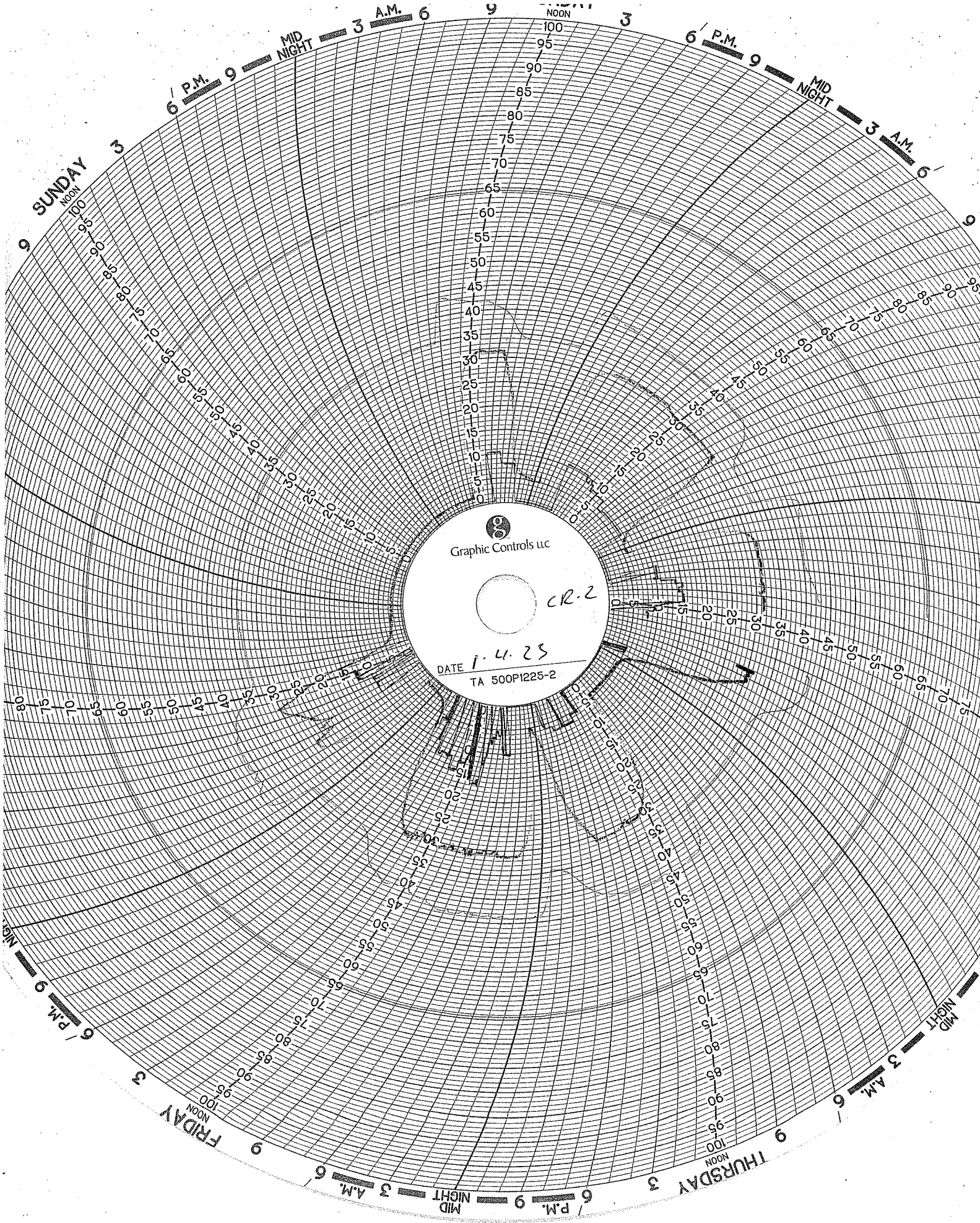
Green Pen – Well 2 Monthly Volume (chart value x 100,000)

Channel #4

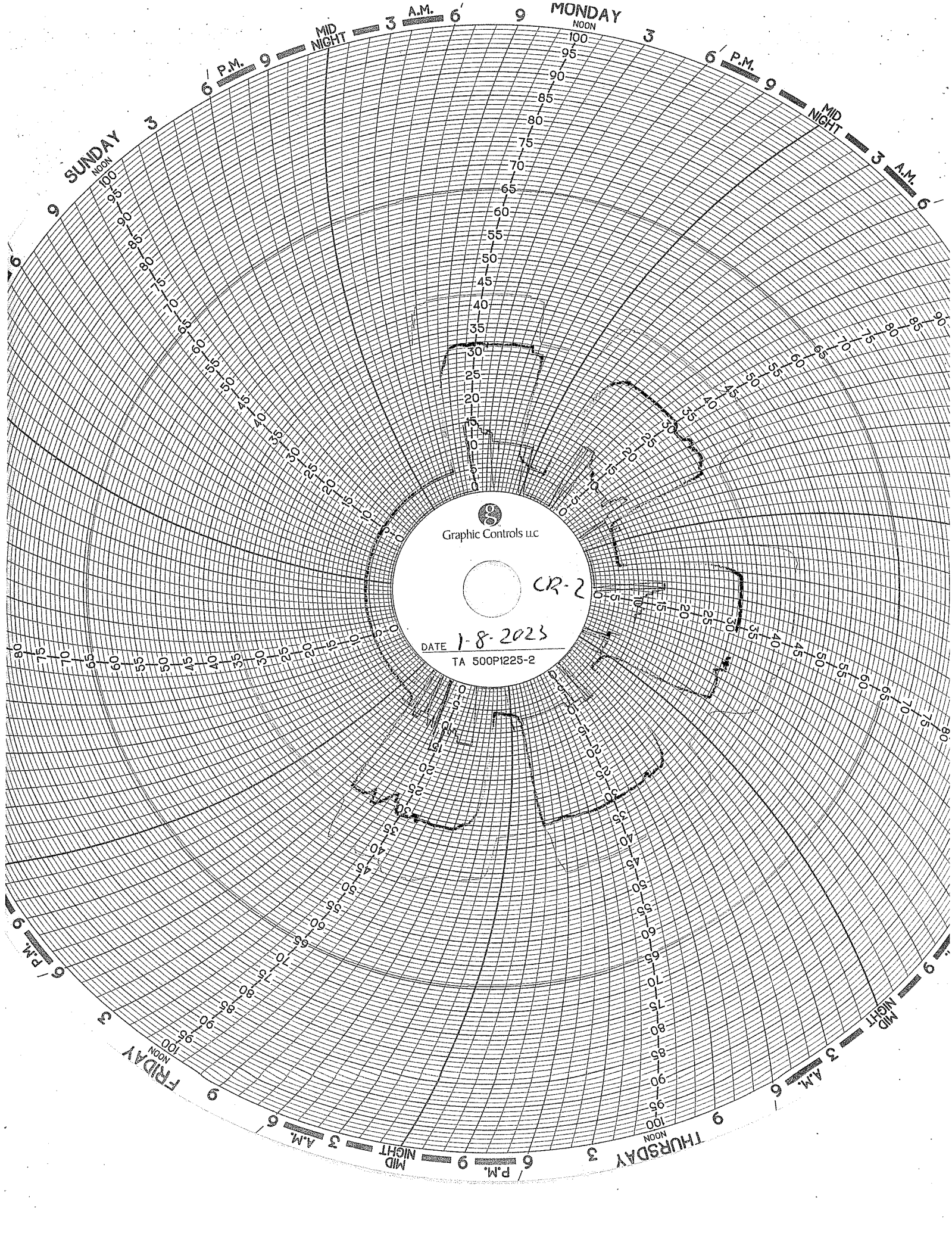
Black Pen – Temperature (chart value x 0)



Graphic Controls LLC
CB-2
DATE 12-28-22
TA 500PI225-2



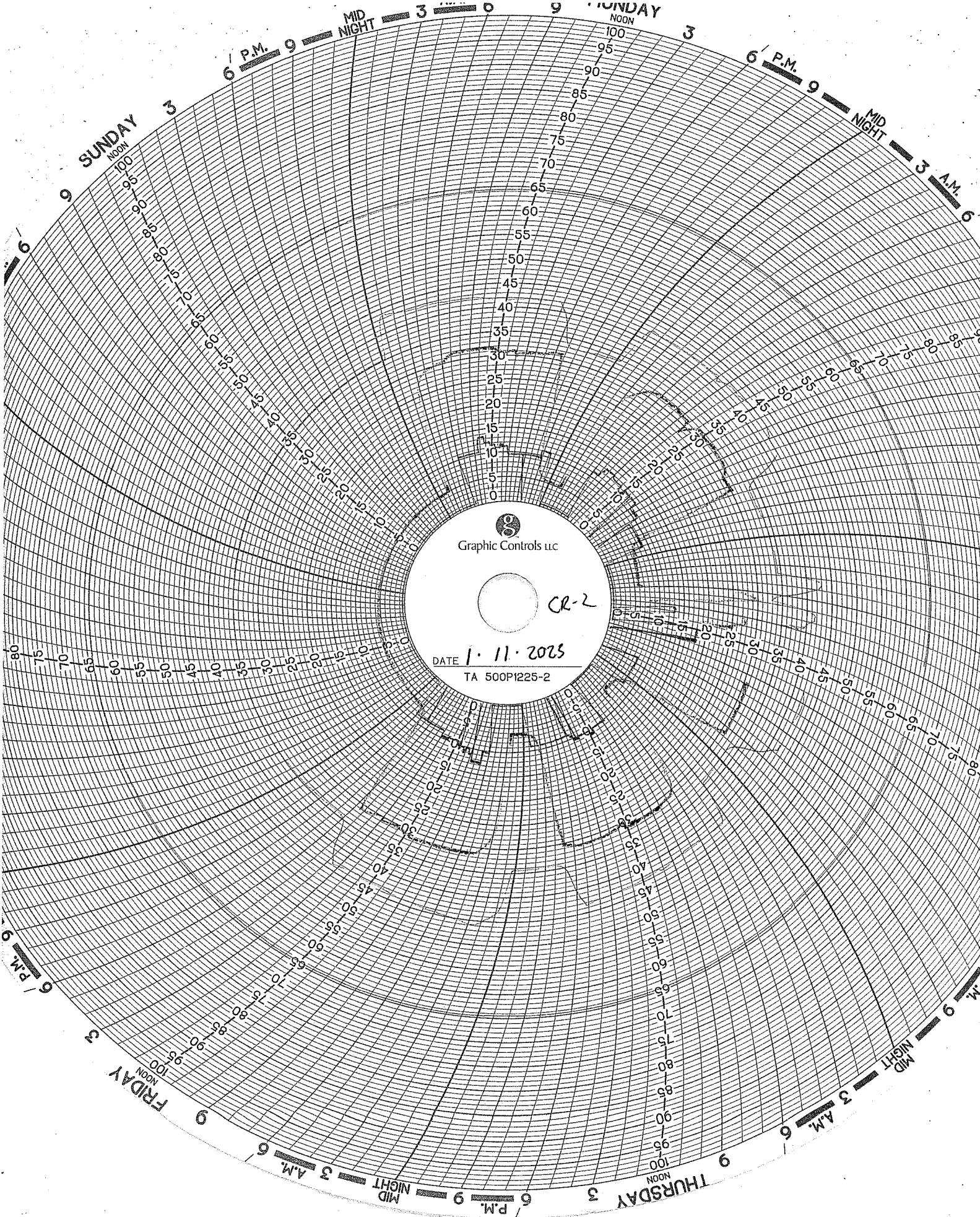
Graphic Controls LLC
CR-2
DATE 1-4-25
TA 500P1225-2



Graphic Controls LLC

CR-2

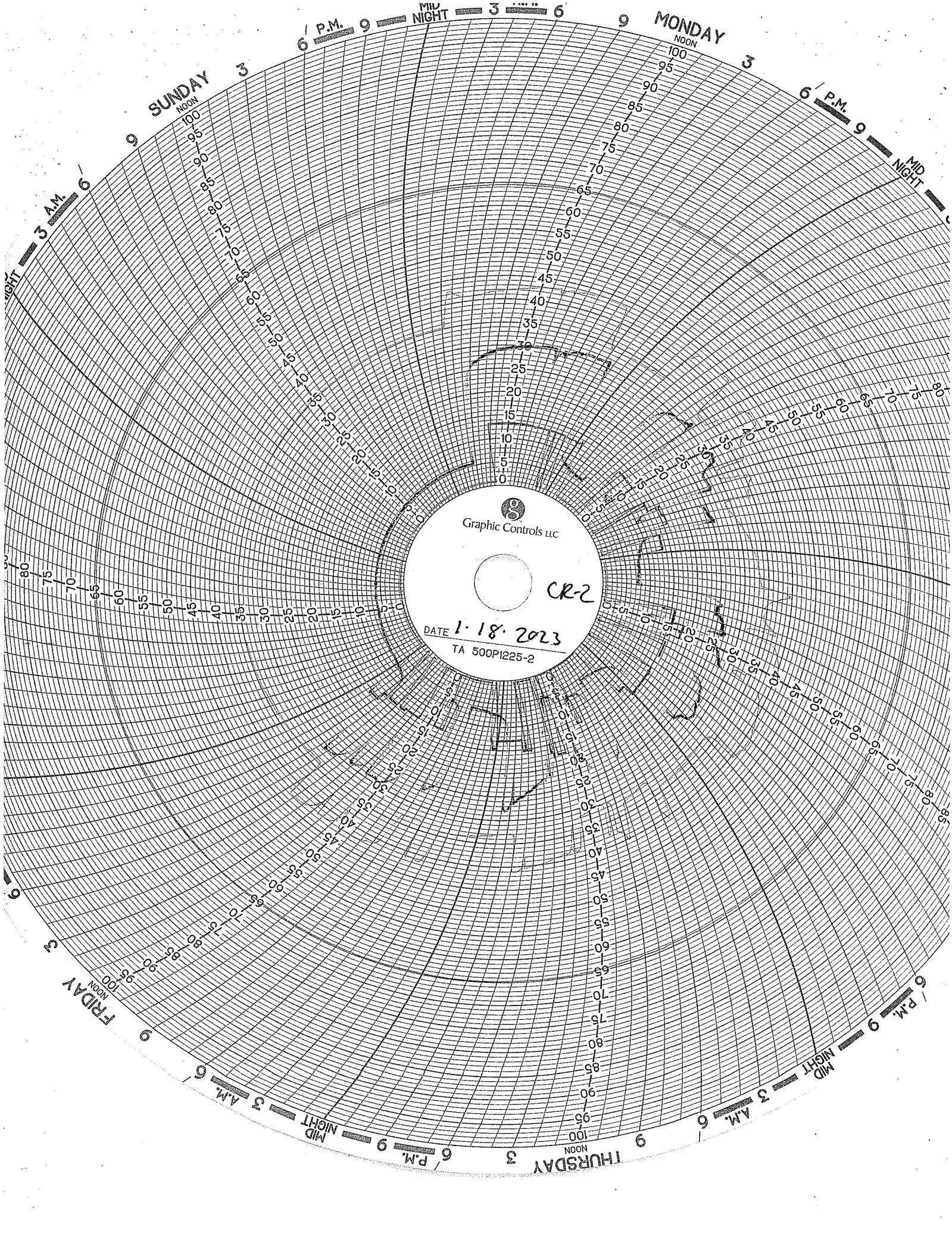
DATE 1-8-2023
TA 500P1225-2



Graphic Controls LLC

CR-2

DATE 1.11.2025
TA 500P1225-2

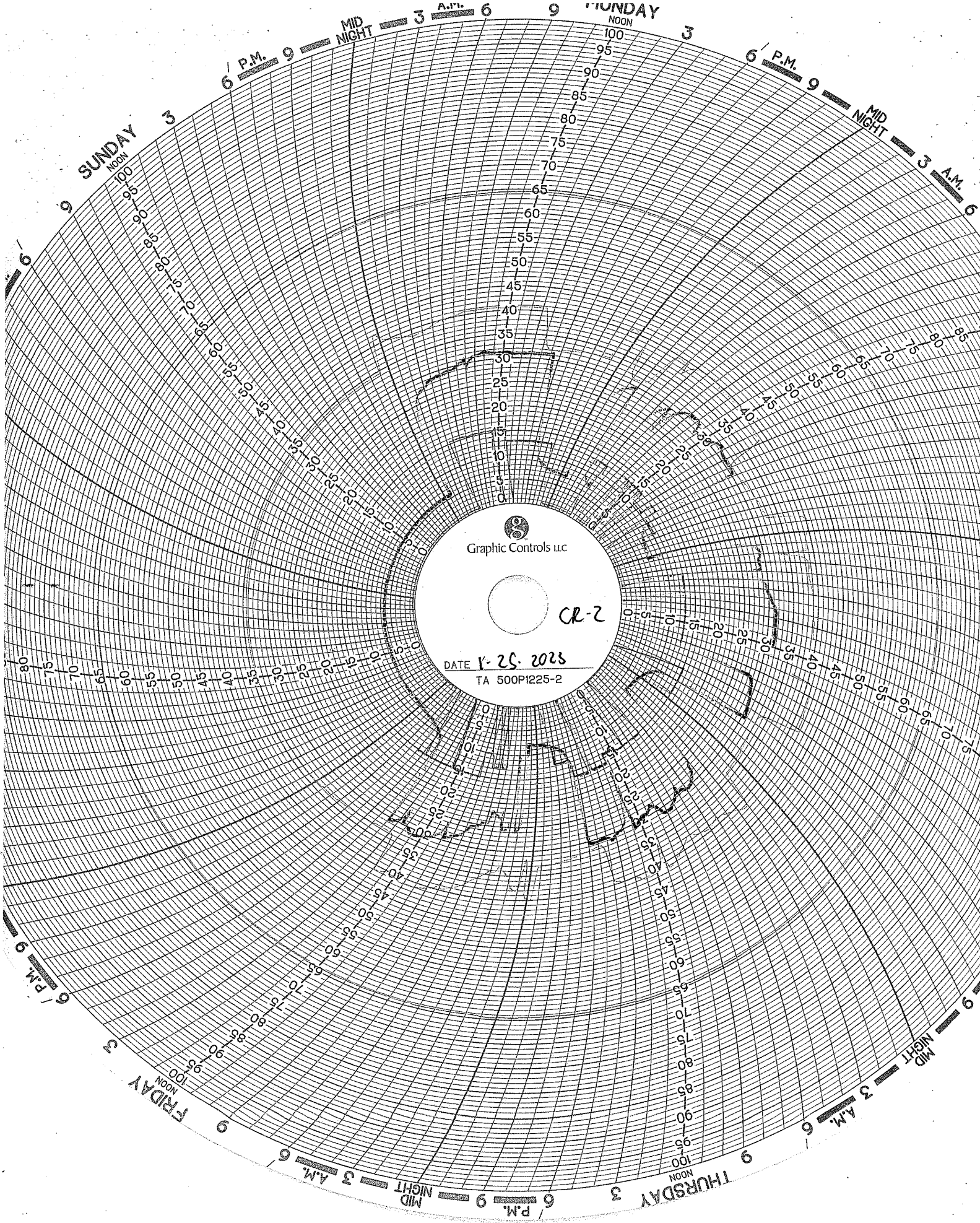


Graphic Controls LLC

CR-2

DATE 1-18-2023

TA 500P1225-2



Graphic Controls LLC

CR-2

DATE 1-25-2023
TA 500PI225-2

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)

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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

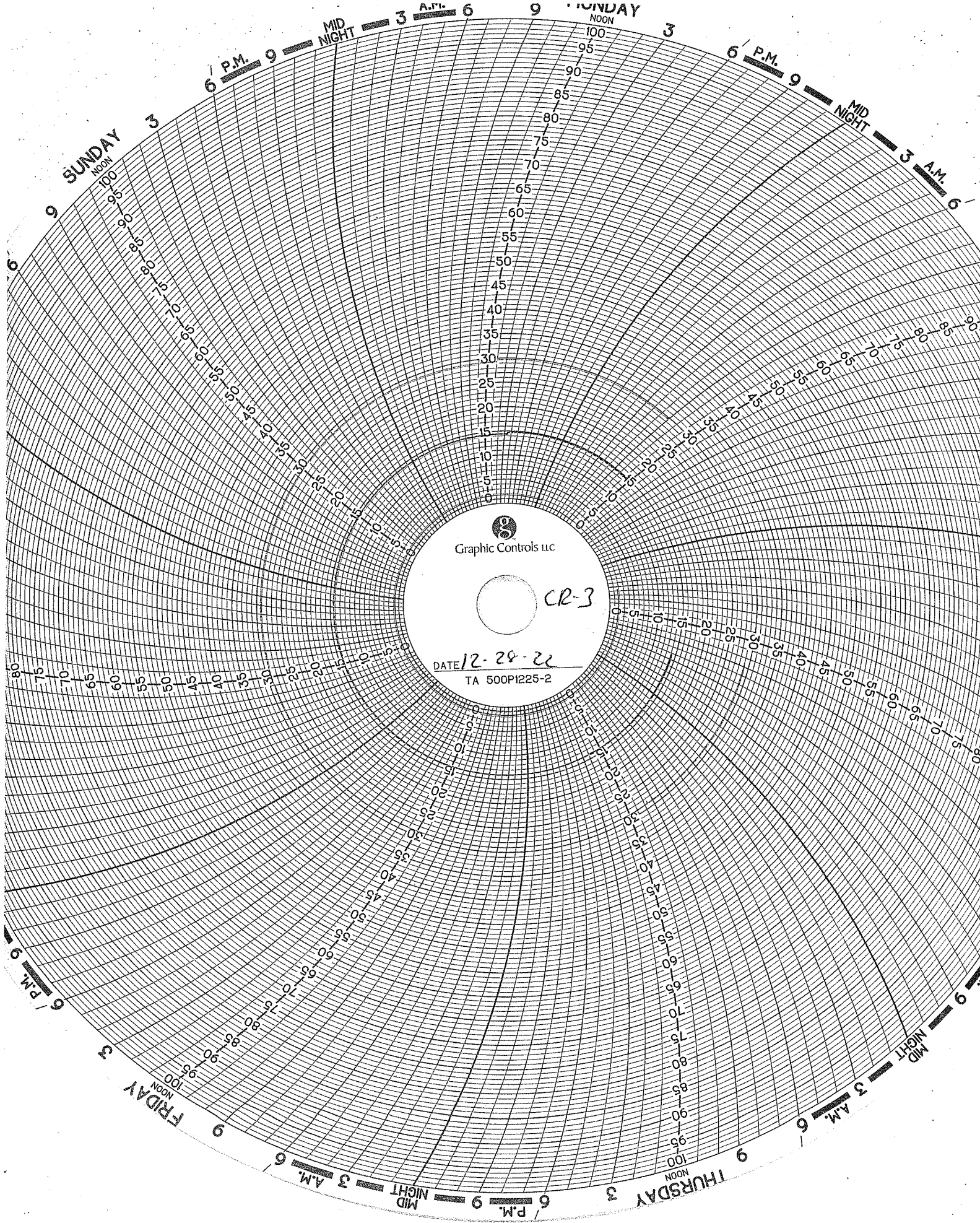
Red Pen - Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

Channel #4

Black Pen - Temperature (chart value x 0)

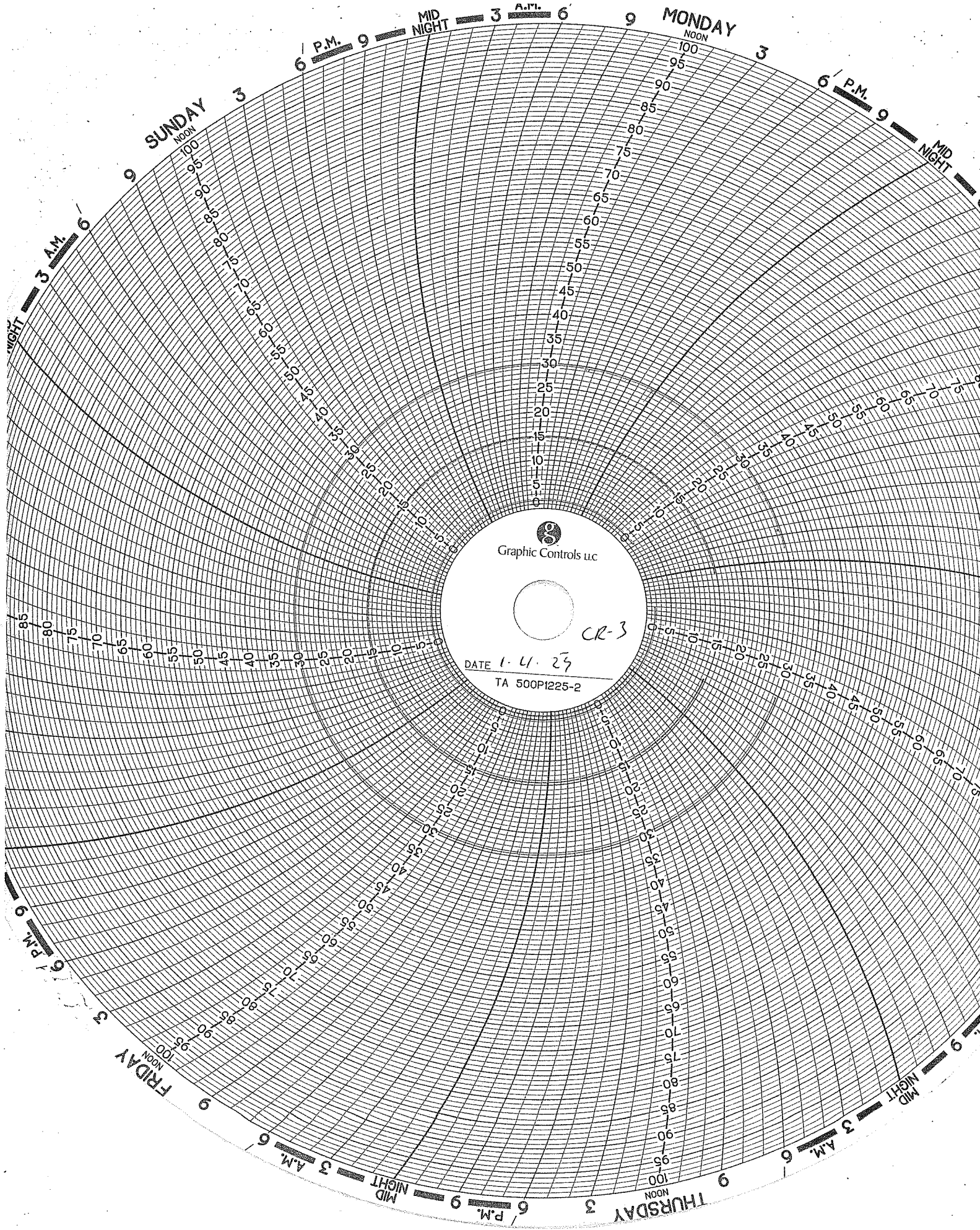


Graphic Controls LLC

CR-3

DATE 12-29-22

TA 500PI225-2

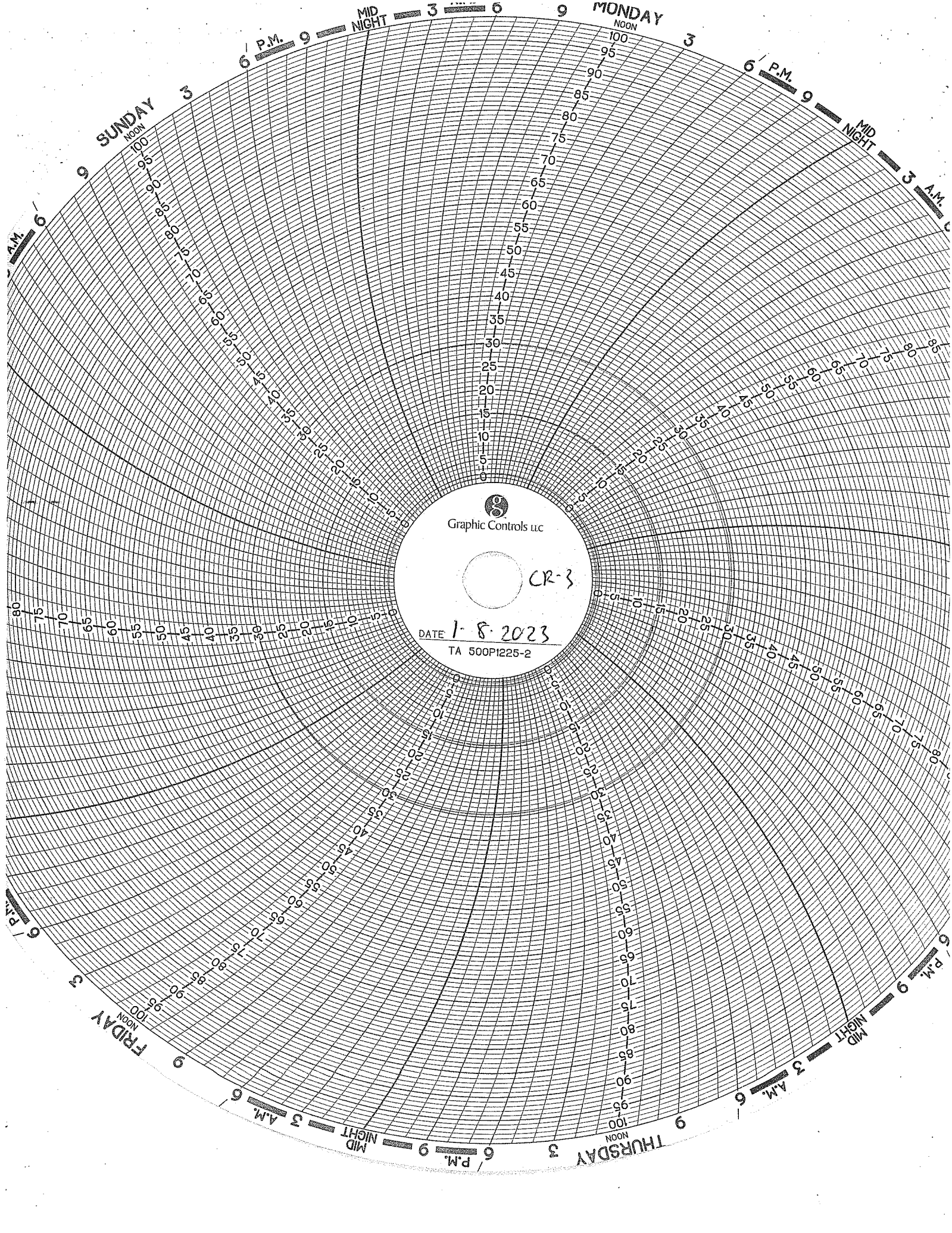


Graphic Controls LLC

CR-3

DATE 1-4-29

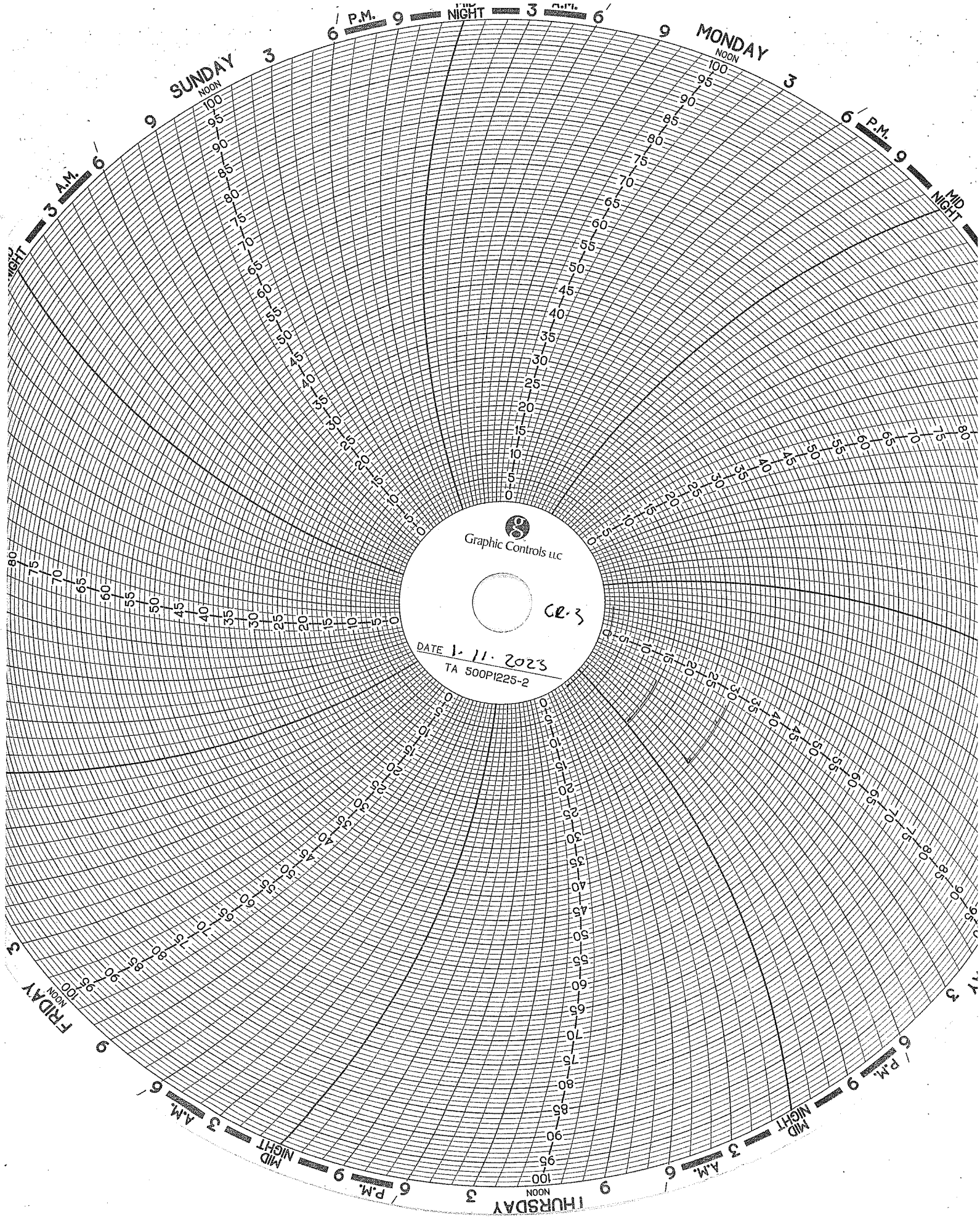
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CR-3

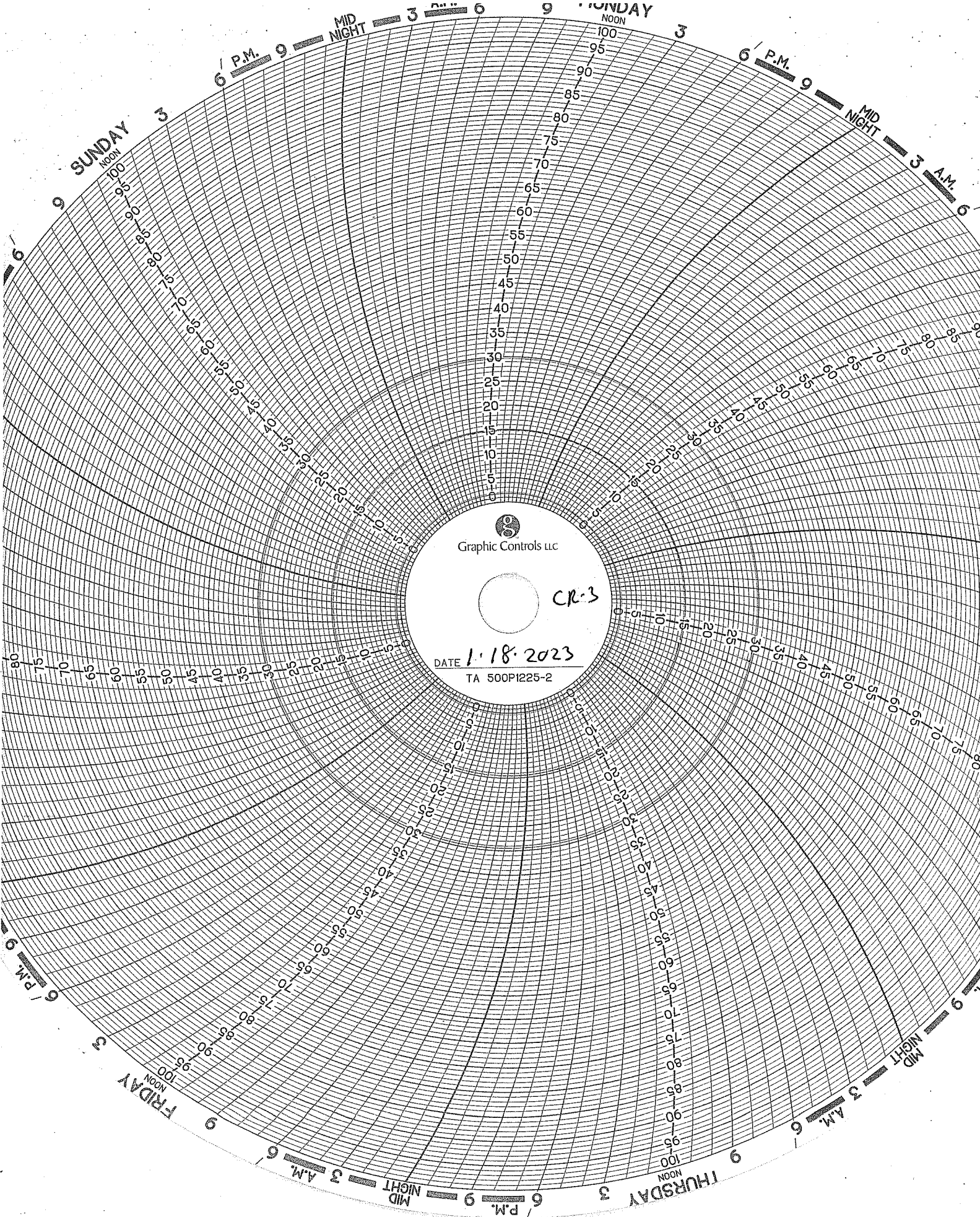
DATE 1-8-2023
TA 500P1225-2



Graphic Controls LLC

CR-3

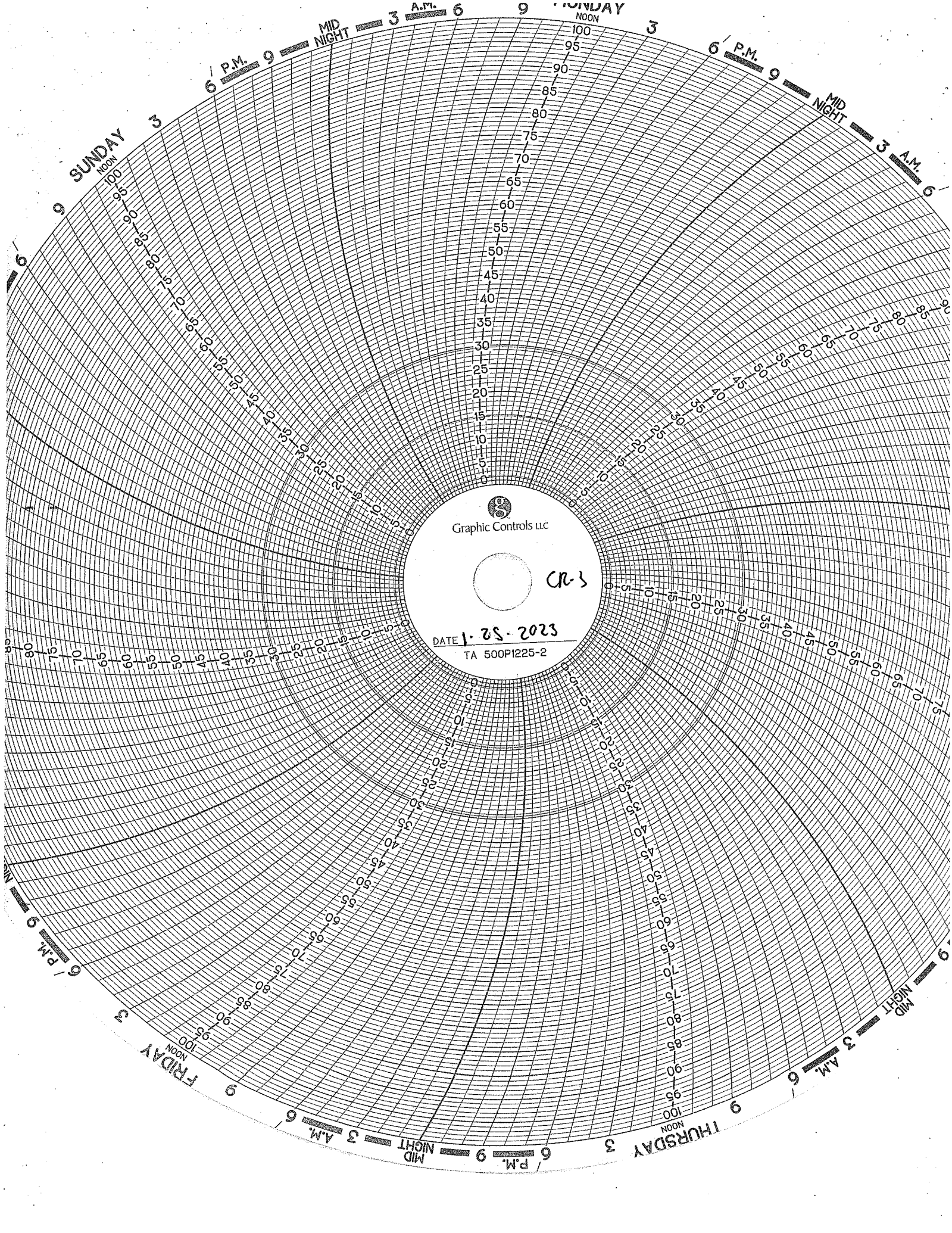
DATE 1-11-2023
TA 500P1225-2



Graphic Controls LLC

CR-3

DATE 1.18.2023
TA 500PI225-2



Graphic Controls LLC

DATE 1-28-2023
TA 500PI225-2

CR-3

CORROSION MONITORING

CORROSION MONITORING PLAN
COUPON SUMMARY

Date	Hastelloy	Stainless Steel	Fiberglass	
	(C267)	(316L)	(Redbox)	
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 g	7.196 g	
7/11/2014	13.323 g	10.304 g	7.196 g	
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	New stainless steel coupon
1/29/2016	13.334 g	8.931 g	6.788 g	
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	New Fiberglass coupon
1/3/2017	13.325 g	8.059 g	6.712 g	
2/28/2017	13.324 g	7.634 g	6.727 g	
3/24/2017	13.325 g	7.370 g	6.732 g	
4/28/2017	13.325 g	6.736 g	6.736 g	
5/11/2017	13.323 g	7.352 g	6.689 g	
6/12/2017	13.323 g	7.357 g	6.689 g	
7/5/2017	13.323 g	7.355 g	6.689 g	
8/30/2017	13.324 g	7.353 g	18.105 g	
9/28/2017	13.325 g	7.352 g	18.060 g	
10/11/2017	13.324 g	7.350 g	18.038 g	
11/16/2017	13.325 g	7.363 g	18.047 g	
12/12/2017	13.326 g	7.308 g	18.307 g	

CORROSION MONITORING PLAN
COUPON SUMMARY

Date	Hastelloy	Stainless Steel	Fiberglass	
1/29/2018	13.326 g	10.930 g	18.027 g	New stainless steel coupon
2/9/2018	13.325 g	10.932 g	18.044 g	
3/19/2018	13.325 g	10.926 g	18.030 g	
4/16/2018	13.336 g	10.863 g	18.068 g	
5/17/2018	13.325 g	10.858 g	18.037 g	
6/20/2018	13.325 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	
Date	Hastelloy	Stainless Steel	Fiberglass	
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	

CORROSION MONITORING PLAN
COUPON SUMMARY

3/18/2022	13.281g	9.368g	17.246g	
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	
11/18/2022	13.274	9.145	15.801	
12/19/2022	13.278	9.132	15.588	
1/18/2023	13.276	9.131	15.761	

COOROSION MONITORING COUPONS VISUAL DESCRIPTION

Jan, 2023

Fiberglass Coupon

The coupon is black in color with a semi-smooth texture on both sides. Its cut edges appear sanded. The coupon is free of cracks, pitting, swelling, blemishes, and corrosion. There is no obvious effect on this coupon since last month. The coupon has been dyed black by received wastestreams.

Hastelloy Coupon

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

Stainless Steel Coupon

This coupon is identified as serial number C1563/316L. There has been consistent loss of mass month over month. No significant changes to this coupon from last month. It is clean with some pitting.

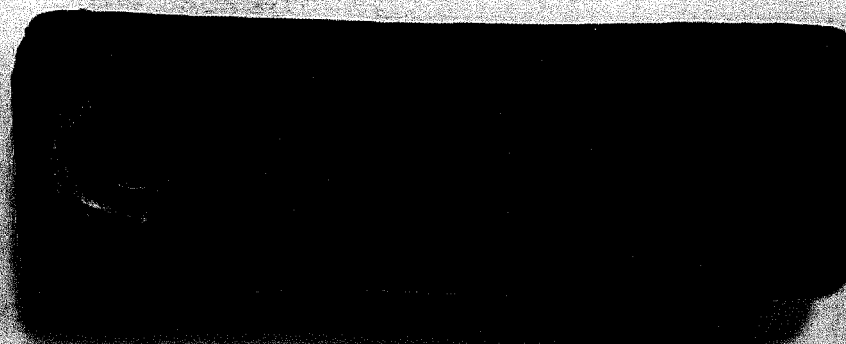
C276 / 5

Weight: 13.276
Date: 01/18/2023



Fiberglass

Weight: 15.761
Date: 01/18/2023



316L / C1563

Weight: 9.131
Date: 01/18/2023



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.



AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

• TEST REPORT •

PN 125322

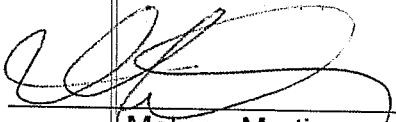
PO 00154

PLASTICS TESTING DEPARTMENT

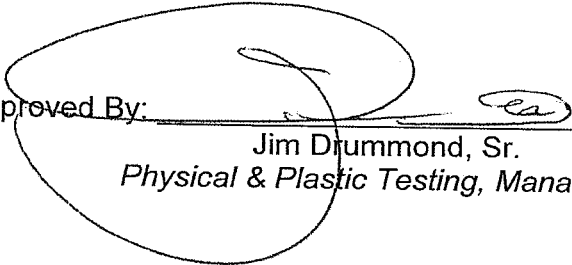
Prepared For:

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



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ISO 9001:2008 Registered

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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.

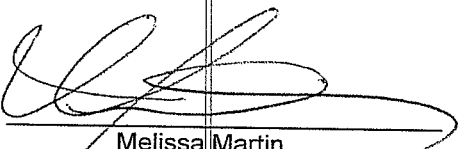
BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

Results

Barcol Hardness, Instant

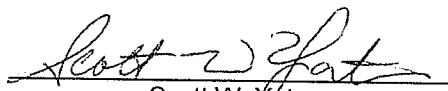
96

Prepared By:


Melissa Martin
Sr. Project Technician

tc

Approved By:


Scott W. Yates
Plastics Testing Assistant Manager

December 12, 2016

▪TEST REPORT▪

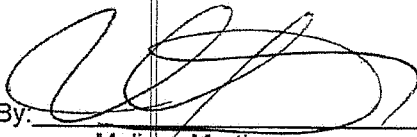
PN 132662
PO

PLASTICS TESTING DEPARTMENT

Prepared For:

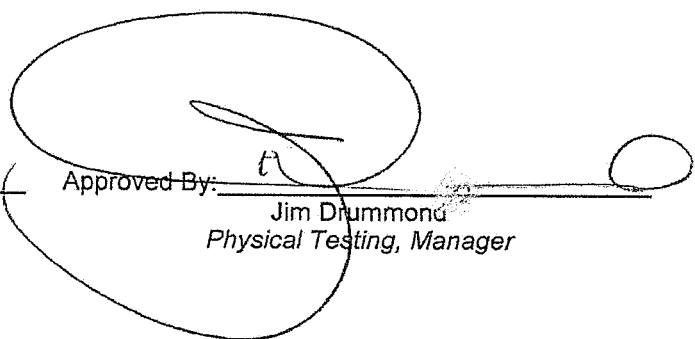
John Frost
Environmental Geo-Technologies, LLC
28470 Citrin Drive
Romulus, MI 48174

Prepared By:


Melissa Martin
Senior Project Technician

Rev 041916

Approved By:


Jim Drummond
Physical Testing, Manager



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December 12, 2016

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 132662

SUBJECT: Barcol Hardness on one (1) material.

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

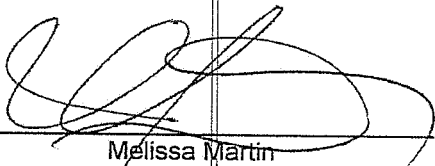
BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

RESULTS

Barcol Hardness, Instant

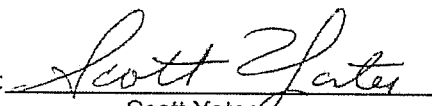
96

Prepared By:


Melissa Martin
Senior Project Technician

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.



AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

December 13, 2017

TEST REPORT

PN 139140

PO#

PLASTIC TESTING DEPARTMENT

Prepared For:

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

Prepared By:

Melissa Martin
Sr Project Technician

Approved By:

Jim Drummond
Rubber & Plastic Testing, Manager

Rev 041916



*Certificate Numbers 255.01 & 255.02

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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

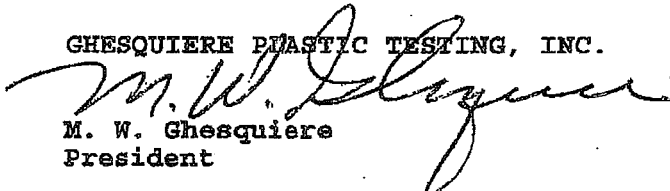
Hardness

Specimen 1

90

Specimen is being returned with this report for further evaluation.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/kni

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TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

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

Report Date: 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.

TEST SIGNATURE:

Ghesquiere Plastic Testing, Inc.

M. W. Ghesquiere
President

MWG/dm

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TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

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

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

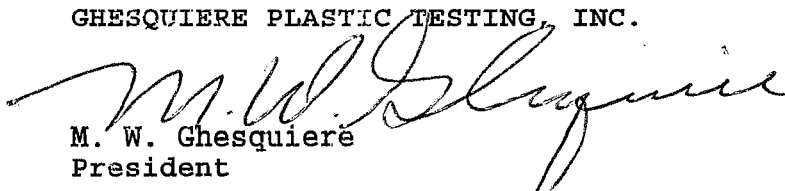
Hardness

Specimen 1

85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm

October 2, 2014

• TEST REPORT •

PN 118325


PO Attn: John Frost

PLASTICS TESTING DEPARTMENT

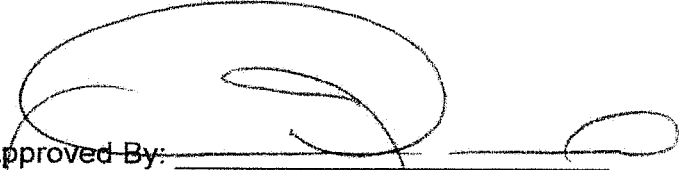
Prepared For:

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

Prepared By:


Melissa Martin
Sr. Project Technician

Approved By:


Jim Drummond
Physical & Plastics Testing, Manager



A Testing Lab
*Certificate Numbers 255.01 & 255.02

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Testing. Development. Problem Solving.

October 2, 2014

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN118325

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

RECEIVED: One small section identified as; Fiberglass Coupon.


BARCOL HARDNESS ASTM D 2583-13a

Results

Barcol Hardness, Instant

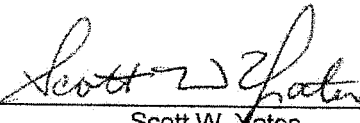
97

Prepared By:


Melisse Martin
Sr. Project Technician

st

Approved By:


Scott W. Yates
Plastics Testing Assistant Manager

www.ardl.com

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BARCOL HARDNESS REPORT

Customer: Republic Industrial and Energy Solutions, LLC

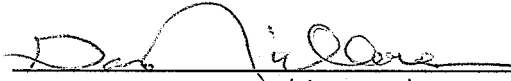
Component Tested: Test Coupon

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

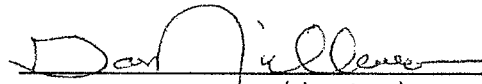
Component Tested: Test Coupon

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
(print or type name)

Date: 10/11/2021

BARCOL HARDNESS REPORT

Customer: Republic Industrial and Energy Solutions

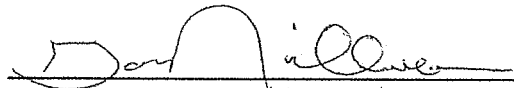
Component Tested: Fiberglass Coupon

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
(print or type name)

Date: 08/23/2022

MAINTENANCE

UIC Monthly Maintenance Log

No Maintenance this month

INJECTION FINGERPRINTS

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 31 / 23
Receiving ID#	201312304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:27
Time out	
Received by	
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	6.61
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	50°
Conductivity	15.51
% Solids	.955
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

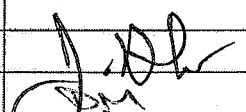
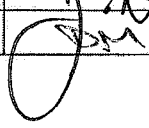
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3.808.823
3.581

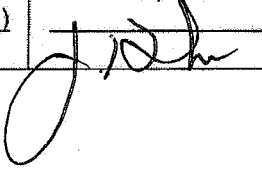
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 31 / 23
Receiving ID#	201312303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:39
Time out	
Received by	
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	6.21
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51°
Conductivity	16.58
% Solids	.418
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 31 / 23
Receiving ID#	201312302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:00
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.39
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55
Conductivity	18.40 μ S
% Solids	0.94
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 31 / 23
Receiving ID#	I01312301
Manifest #	Line
Land Ban Cert included	Yes - No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:00
Time out	
Received by	<i>n Escobar</i>
Sampled by	<i>n Escobar</i>

LAB. INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>110°
pH (S.U.)	6.39
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51°
Conductivity	20.01
% Solids	0.08%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>n Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/30/23
Receiving ID#	201302306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:00
Time out	
Received by	
Sampled by	A. Warlick

LAB. INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	6.64
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	18.38
% Solids	.717
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warlick

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

3.887

.802 .829

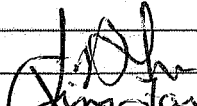
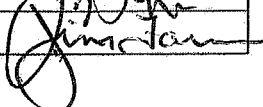
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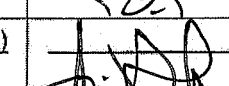
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 130 123
Receiving ID#	201302305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:20
Time out	
Received by	
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	6.06
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	20.1
% Solids	.875
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 30 / 23
Receiving ID#	101302304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:51
Time out	
Received by	
Sampled by	

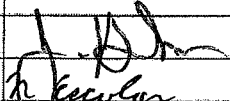
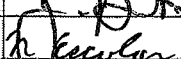
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.66
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	49.3
Conductivity	22.3 us
% Solids	0.93
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

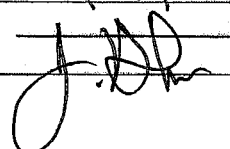
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 30 / 23
Receiving ID#	I01302363
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:30
Time out	
Received by	N Escobar
Sampled by	N Escobar

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140'
pH (S.U.)	6.69
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52°
Conductivity	21.5
% Solids	.93%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	N Escobar

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 30 / 23
Receiving ID#	161302362
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	08:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	3.80
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.4
Conductivity	25.4 mS
% Solids	0.89
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 30 / 23
Receiving ID#	101302301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	<i>N Escobar</i>
Sampled by	<i>N Escobar</i>

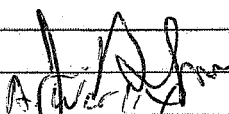
LAB. INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>110°
pH (S.U.)	6.05
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52°
Conductivity	17.13
% Solids	.07%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N Escobar</i>

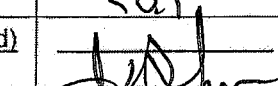
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 27 / 23
Receiving ID#	201272305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:56
Time out	
Received by	
Sampled by	A. Worley

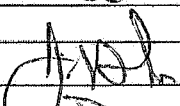

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7 1400
pH (S.U.)	6.46
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54.0
Conductivity	24.1
% Solids	1.24 1.24
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

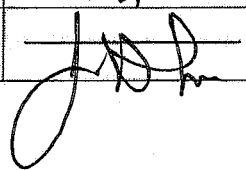
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 27 / 23
Receiving ID#	101272304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:12
Time out	
Received by	
Sampled by	A. West

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.15
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.1
Conductivity	27.3 mS
% Solids	1.69
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 27 / 23
Receiving ID#	1012723 03
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:50
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	4.38
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53.5
Conductivity	29.1 m
% Solids	2.41
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	

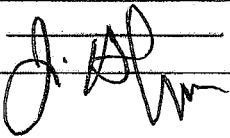
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 27 / 23
Receiving ID#	101272302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:52
Time out	
Received by	J. D.
Sampled by	J. D.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.14
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	49.3
Conductivity	5.95 mS
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. D.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 27 / 23
Receiving ID#	201272301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:30
Time out	
Received by	
Sampled by	Dalton M

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.73
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)	50°F
Conductivity	10.49 ms
% Solids	0%
Turbidity	Yes No
Color	Lt. Brown
TSS (%)	.9%
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 26 / 23
Receiving ID#	101262306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:15
Time out	
Received by	
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	5.63
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54°
Conductivity	26.5
% Solids	.973
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 26 / 23
Receiving ID#	201262306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:15
Time out	
Received by	
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	5.63
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54°
Conductivity	26.5
% Solids	.973
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

4.733
 .815
 7.938

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 126 123
Receiving ID#	201262305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:08
Time out	
Received by	
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7 1400
pH (S.U.)	5.37
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	550
Conductivity	24.7
% Solids	1.09
Turbidity	Yes No
Color	R
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

Injection fingerprint #I01262304 was not completed; however, fingerprints I01232305 and I01262306 were done sequentially.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 26 / 23
Receiving ID#	I01262303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:20
Time out	
Received by	<i>J. D. Schur</i>
Sampled by	<i>Dalton M.</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	5.02 6.38 6.38
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.0
Conductivity	5.15
% Solids	10.1
Turbidity	Yes No
Color	
TSS (%)	201
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. Schur</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 26 / 23
Receiving ID#	107262302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:20
Time out	
Received by	J. DP
Sampled by	2/ Ecular

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	110
pH (S.U.)	5.80
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.5
Conductivity	14.49 \pm 5
% Solids	0.64
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. DP

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 26 / 23
Receiving ID#	T01262301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	<i>N Escobar</i>
Sampled by	<i>N Escobar</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>110°
pH (S.U.)	7.13
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	17.23
% Solids	0.88%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 25 / 23
Receiving ID#	201252306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	21:00
Time out	
Received by	
Sampled by	A. Work

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	7.35
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56°
Conductivity	22.19
% Solids	1.11
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Work

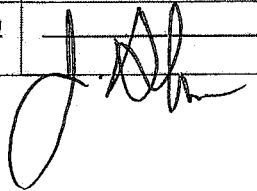
FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

6589
1.800
3.789

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 12 23
Receiving ID#	T01232303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:33
Time out	
Received by	
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	6.43
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55°
Conductivity	22.1
% Solids	1.16
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 25 / 23
Receiving ID#	201252304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:53
Time out	
Received by	
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	6.86
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	20.9
% Solids	1.17
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

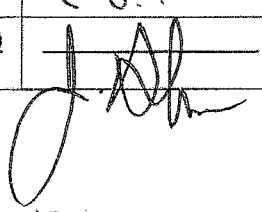
6589

500

2.789

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 25 / 23
Receiving ID#	T01252303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:33
Time out	
Received by	
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	6.43
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55°
Conductivity	22.1
% Solids	1.16
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 25 / 23
Receiving ID#	I01252302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:50
Time out	
Received by	<i>J. AR</i>
Sampled by	<i>R. J. ...</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.85
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.2
Conductivity	20.8 mS
% Solids	0.93
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. AR</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	01 / 25 / 23
Receiving ID#	I01252301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:30 AM
Time out	
Received by	
Sampled by	<i>Jim For</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.80
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.0
Conductivity	9.94
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. For</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 24 / 23
Receiving ID#	201242305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	21:40
Time out	
Received by	
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	2.25
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51°
Conductivity	4.67
% Solids	0032
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

4. 286

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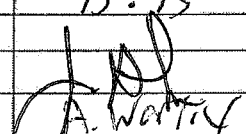
3. 479

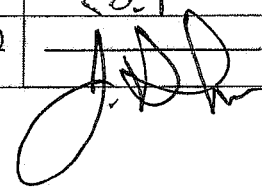
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 124 123
Receiving ID#	201242304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:30
Time out	
Received by	
Sampled by	A. Warlick

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	2.0
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	8.09
% Solids	.029
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. Warlick

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 24 / 23
Receiving ID#	101 24 2303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:45
Time out	
Received by	
Sampled by	A. Warty

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.24
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.8
Conductivity	5.79
% Solids	0.15
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 24 / 23
Receiving ID#	101242302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:50
Time out	
Received by	J. J. [Signature]
Sampled by	N.E.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.67
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.1
Conductivity	33.0 μ S
% Solids	0.92
Turbidity	Yes No
Color	
TSS (%)	0.5
Radiation Screen (as needed)	
Lab Signature/Initials	J. J. [Signature]

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 24 / 23
Receiving ID#	T01212301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:45
Time out	
Received by	<i>n Escobar</i>
Sampled by	<i>n Escobar</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	6.02
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.050
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56°
Conductivity	25.8
% Solids	.15%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>n Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 23 / 23
Receiving ID#	101232305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:26
Time out	
Received by	
Sampled by	A. Worley

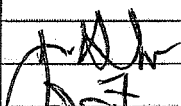
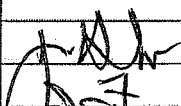
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	5.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	27.1
% Solids	1.31
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

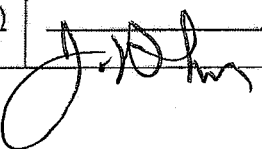
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 23 / 23
Receiving ID#	IOI 232304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:04
Time out	
Received by	
Sampled by	A. Worley


LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	5.85
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	27.7
% Solids	1.55
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

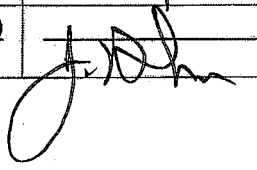
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	01 / 23 / 23
Receiving ID#	IO1232303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:10
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.24
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52.9
Conductivity	24.9 mS
% Solids	1.07
Turbidity	Yes No
Color	
TSS (%)	400
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	01 / 23 / 23
Receiving ID#	IO1232302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6-16
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52.0
Conductivity	23.1 ms
% Solids	1.47
Turbidity	Yes No
Color	
TSS (%)	60.4
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 23 / 23
Receiving ID#	101232301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:00
Time out	
Received by	<i>n. Cassler</i>
Sampled by	<i>n. Cassler</i>

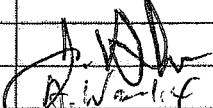
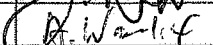
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>110
pH (S.U.)	6.18
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	22.7
% Solids	1.72
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>n. Cassler</i>

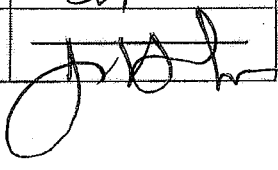
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 20 / 23
Receiving ID#	201202304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:27
Time out	
Received by	
Sampled by	A. W. L. P.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	6.45
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56°
Conductivity	22.7
% Solids	0.873
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. W. L. P.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 20 / 23
Receiving ID#	201202303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:37
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.52
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.0
Conductivity	23.1ms
% Solids	0.93
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4 / 20 / 23
Receiving ID#	IC4202302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:00
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.42
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.6ms
Conductivity	20.4ms
% Solids	0.54
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

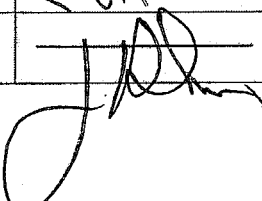
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 20 / 23
Receiving ID#	I01202301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:00
Time out	
Received by	<i>R. Escobar</i>
Sampled by	<i>R. Escobar</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	5.71
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51°
Conductivity	17.46°
% Solids	2.2°
Turbidity	Yes No
Color	
TSS (%)	0.5°
Radiation Screen (as needed)	
Lab Signature/Initials	<i>R. Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 19 / 23
Receiving ID#	201192303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:28
Time out	
Received by	
Sampled by	A. Wong

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	4.63
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	29.6
% Solids	1.71
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 19 / 23
Receiving ID#	IOI 19 23 02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:20
Time out	
Received by	
Sampled by	Anthony Waring

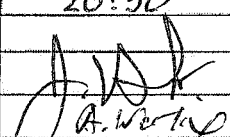
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.94
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58°
Conductivity	25.1
% Solids	1.59
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	Anthony Waring

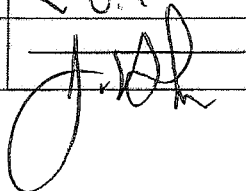
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 19 / 23
Receiving ID#	101192301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	n Escobar
Sampled by	n Escobar

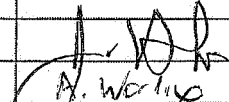
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	2.91
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51°
Conductivity	2.26
% Solids	.24%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	n Escobar

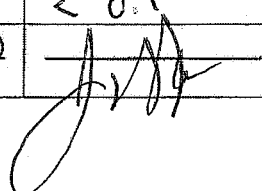
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 1 18 123
Receiving ID#	201 182304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:30
Time out	
Received by	
Sampled by	A. Werling

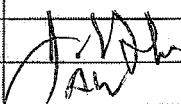
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7 140°
pH (S.U.)	1.92
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59°
Conductivity	36.7
% Solids	1.78
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

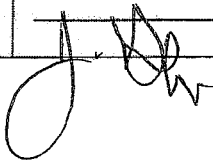
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 18 / 23
Receiving ID#	101182303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:24
Time out	
Received by	
Sampled by	M. Worley

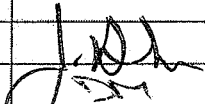
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	4.64
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	Liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61°
Conductivity	31.1
% Solids	2.2
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

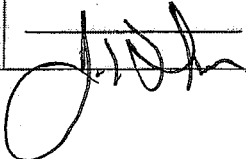
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 118 123
Receiving ID#	101182302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:48
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7 140
pH (S.U.)	1.99
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	540
Conductivity	29.5
% Solids	2.53
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

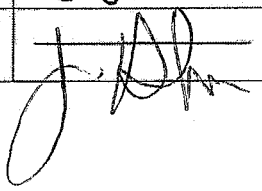
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 18 / 23
Receiving ID#	20182301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:14
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.08
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.4
Conductivity	7.35 mS
% Solids	0.37
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 17 / 23
Receiving ID#	101172304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:20
Time out	
Received by	
Sampled by	A. Warlick

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140 ⁰
pH (S.U.)	1.78
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56 ⁰
Conductivity	17.92
% Solids	.851
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 17 / 23
Receiving ID#	101172303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:45
Time out	
Received by	J. ADP
Sampled by	Phil Bennett

EST-1

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.00
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56.9
Conductivity	28.0 ms
% Solids	1.40
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	J. ADP

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 17 / 23
Receiving ID#	101172302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	09:40
Time out	
Received by	J. Alvar
Sampled by	R. Escobar

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.73
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.6
Conductivity	29.2ms
% Solids	1.72
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. Alvar

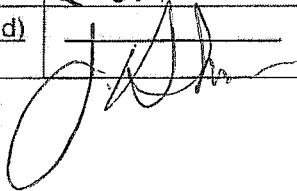
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 117 123
Receiving ID#	D01172301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.19
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.1
Conductivity	40.9 μ S
% Solids	3.96
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 16 / 23
Receiving ID#	101162305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:32
Time out	
Received by	
Sampled by	A. Worley

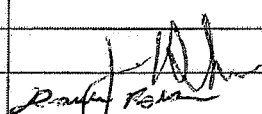
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 1400
pH (S.U.)	6.46
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55°
Conductivity	28.5
% Solids	1.15
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	

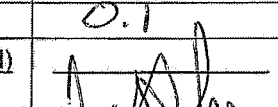
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 16 / 23
Receiving ID#	101162304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:49
Time out	
Received by	
Sampled by	AWC/ry

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2 1400
pH (S.U.)	4.13
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53.0
Conductivity	30.2
% Solids	1.21
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	Yes
Lab Signature/Initials	AWC/ry

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 16 / 23
Receiving ID#	101162303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:57
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.86
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52.6
Conductivity	24.5 mS
% Solids	1.16
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 16 / 23
Receiving ID#	20162302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:16
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.44
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.6
Conductivity	22.60 mS
% Solids	0.92
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

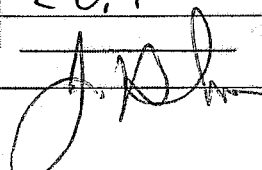
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 16 / 23
Receiving ID#	701162301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	n Escobar
Sampled by	n Escobar

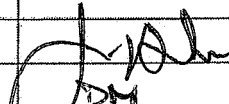
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 110°
pH (S.U.)	6.12
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56°
Conductivity	14.18
% Solids	1.03 ^{o/o}
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	n Escobar

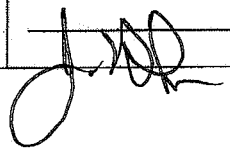
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 113 123
Receiving ID#	201132304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:56
Time out	
Received by	
Sampled by	AWarling

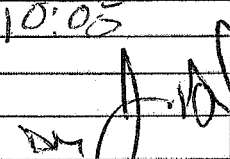
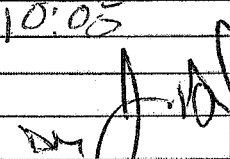
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	4.73
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56
Conductivity	29.6
% Solids	1.44
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	

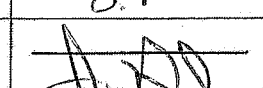
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 13 / 23
Receiving ID#	20132303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:15
Time out	
Received by	
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	4.28
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.1
Conductivity	24.5 mS
% Solids	1.49
Turbidity	Yes No
Color	
TSS (%)	0.5
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 3 / 23
Receiving ID#	101132302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:05
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.70 pH
Cyanides? (mg/L)	< 30
Sulfides? (ppm)?	< 200
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.2
Conductivity	12.77 ms
% Solids	1.51
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 13 / 23
Receiving ID#	701432301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	n Escobar
Sampled by	n Escobar

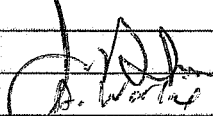
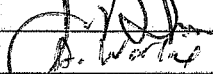
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.51
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62°
Conductivity	10.37
% Solids	.58%
Turbidity	Yes No
Color	
TSS (%)	<0.1%
Radiation Screen (as needed)	
Lab Signature/Initials	n Escobar

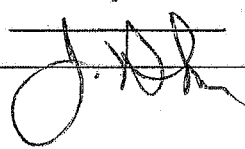
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 12 / 23
Receiving ID#	201122308
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	0940 1/13/23
Time out	
Received by	J. D. [Signature]
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.40
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57 - 69.9 - 70.7
Conductivity	10.77 mS
% Solids	0.50
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. D. [Signature]

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 12 / 23
Receiving ID#	201 12 23 04
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	0940 4/13/23
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.15
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.8
Conductivity	26.0 mS
% Solids	1.60
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02/01/12/23
Receiving ID#	IC0122303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:00
Time out	
Received by	<i>n. Escobar</i>
Sampled by	<i>Jim Form</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	2.37
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	27.1
% Solids	2.42%
Turbidity	Yes No
Color	
TSS (%)	0.5%
Radiation Screen (as needed)	
Lab Signature/Initials	<i>n. Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 12 / 23
Receiving ID#	10122302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:00 1/12/23
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.36
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.4
Conductivity	20.0 μ S
% Solids	0.82
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 12 / 23
Receiving ID#	I01122301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	<i>n Escobar</i>
Sampled by	<i>n Escobar</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.24
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54°
Conductivity	21.1
% Solids	1.27%
Turbidity	Yes No
Color	
TSS (%)	< 0.1"
Radiation Screen (as needed)	
Lab Signature/Initials	<i>n Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 1 / 23
Receiving ID#	101112305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:00 1/12/23
Time out	
Received by	
Sampled by	A. W. [Signature]

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	1140
pH (S.U.)	5.16
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.7
Conductivity	17.29 mS
% Solids	1.06
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	[Signature]

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 11 / 23
Receiving ID#	IO1112304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:00 4/12/23
Time out	
Received by	
Sampled by	A. Worley

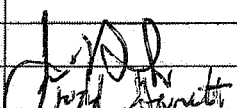
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	3.21
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.6
Conductivity	16.07
% Solids	0.99
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

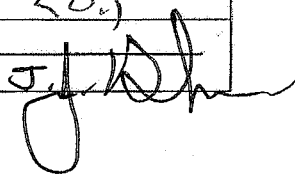
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 11 / 23
Receiving ID#	10112303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:15
Time out	
Received by	J. D. P.
Sampled by	J. G.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	1140
pH (S.U.)	3.35
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56.4
Conductivity	24.0 ms
% Solids	1.78
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. D. P.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 11 / 23
Receiving ID#	101112307
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:15
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.81
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54.7
Conductivity	37.60 mS
% Solids	2.96
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	01 / 11 / 23
Receiving ID#	20112301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	08:45
Time out	
Received by	J. [Signature]
Sampled by	J. [Signature]

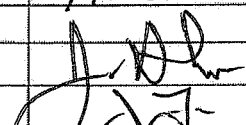
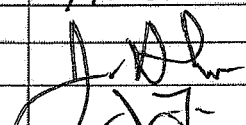
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	7.15
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes 5.71 No
Temperature (F)	63.6
Conductivity	66.3
% Solids	0.66
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. [Signature]

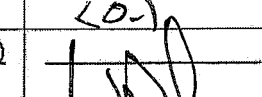
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 110 123
Receiving ID#	101102303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	08:45 / 11-23
Time out	
Received by	J. D. 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.)	7.24
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.5
Conductivity	9.79 ms
% Solids	0.23
Turbidity	Yes No
Color	5-10
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. D. H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 10 / 23
Receiving ID#	101102302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:00
Time out	
Received by	
Sampled by	

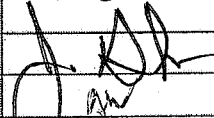
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	7.20
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52.8
Conductivity	20.3 mg
% Solids	0.84
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

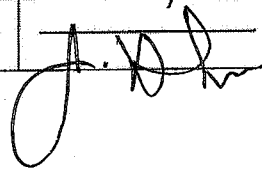
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	01 / 10 / 23
Receiving ID#	I01102301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:00
Time out	
Received by	Nicolas Escobar
Sampled by	Nicolas Escobar

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.27
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51°
Conductivity	20.9
% Solids	1.63%
Turbidity	Yes No
Color	
TSS (%)	<0.1%
Radiation Screen (as needed)	
Lab Signature/Initials	Nicolas Escobar

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 9 / 23
Receiving ID#	2010923 02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:23 1/10/23
Time out	
Received by	
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	7.18
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.2
Conductivity	31.1ms
% Solids	1.46
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 9 / 23
Receiving ID#	101092301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:25
Time out	
Received by	<i>J. John</i>
Sampled by	<i>A.W.</i>

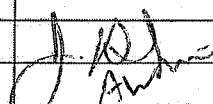
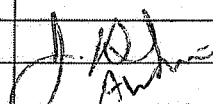
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.92
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53.3
Conductivity	37.1 μ S
% Solids	1.66
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. John</i>

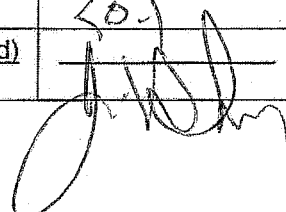
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 7 / 23
Receiving ID#	101072302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:58
Time out	
Received by	J. Ahn
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 100
pH (S.U.)	4.09
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.7
Conductivity	62.1 μ S
% Solids	8.25
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	J. Ahn

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 7 / 23
Receiving ID#	IO1072301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:27
Time out	
Received by	
Sampled by	

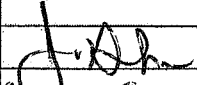

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.18
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.3
Conductivity	45.4 mS
% Solids	4.61
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

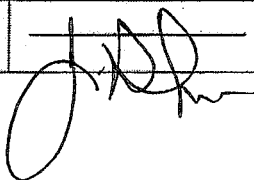
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 6 / 23
Receiving ID#	101062304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:13
Time out	
Received by	J. A. R.
Sampled by	DW

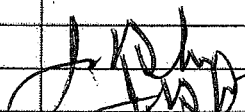
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.23
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.7
Conductivity	2.30
% Solids	40.1
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. A. R.

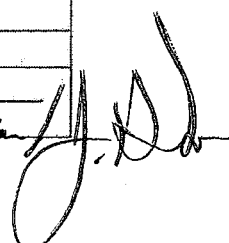
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/8/23
Receiving ID#	IO4062303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	5.61
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.2
Conductivity	37.2 mS
% Solids	1.52
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/6/23
Receiving ID#	101062302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:20
Time out	
Received by	
Sampled by	

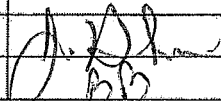
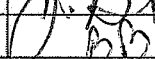
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.50
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.050
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55°
Conductivity	50.9
% Solids	5.87%
Turbidity	Yes No
Color	
TSS (%)	0.5%
Radiation Screen (as needed)	
Lab Signature/Initials	Nickolas Escalante 

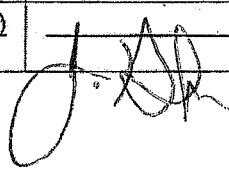
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 6 / 23
Receiving ID#	I01062301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:00
Time out	
Received by	<i>Escobar</i>
Sampled by	<i>Escobar</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.25
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55°
Conductivity	13.32
% Solids	.63%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	01/05/23
Receiving ID#	201052302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	08:10 1/6/23
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 220
pH (S.U.)	6.86
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.7
Conductivity	16.39
% Solids	1.02
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/5/23
Receiving ID#	10105301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	08:08 1/6/23
Time out	
Received by	J. [Signature]
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.89
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.9
Conductivity	22.6ms
% Solids	0.47
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. [Signature]

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/4/23
Receiving ID#	201042302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	21:36
Time out	
Received by	J. Shaw
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.40
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.7
Conductivity	12.58 mS
% Solids	1.25
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. Shaw

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1 / 4 / 23
Receiving ID#	I61042301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:05
Time out	
Received by	J. John
Sampled by	Rescorla

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	5140
pH (S.U.)	7.29
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.8
Conductivity	16.66
% Solids	0.52
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. John

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	01/03/23
Receiving ID#	201032302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	09:10 1/4/23
Time out	
Received by	J. Howling
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.)	7.01
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.9
Conductivity	17.61 mS
% Solids	0.87
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. Howling

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02/03/23
Receiving ID#	IO1032301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:00
Time out	
Received by	J.T.
Sampled by	N.E.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	214
pH (S.U.)	7.46
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.0
Conductivity	26.7 mS
% Solids	1.80
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

WASTE PROFILES



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #
6440230258

Expiration Date
1/5/2024

I. Decision Request:

☒ Initial ☐ Recertification ☐ Change

Disposal Facility: 6440 - Detroit Ind Well

Generator Name: EQ DETROIT

Generator Site Address: 1923 FREDERICK

City: DETROIT

County:

State: MI

Zip:

Name of Waste: ELECTROLESS NICKEL

Estimated Annual Volume: 30,000 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

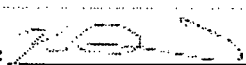
If yes, which one?

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: 1/6/2023

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: 1/6/2023

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 # 6440230258

GENERATOR INFORMATION

Name: EQ Detroit USEPA ID # MID980991566
Facility Address: 1923 Frederick SIC/NAICS Code: State Code: 4953/562211/D00026
City: Detroit State: Michigan Zip Code: 48211
Contact: Annie Pangburn Title: Operations Manager Phone: (734) 366-3582 Fax: ()

BILLING INFORMATION☐ SAME AS ABOVE

Company Name: US Ecology
Address: 17440 College Parkway Suite 300
City: Livonia State: Michigan Zip Code: 48152
Attention: accounts.payable@usecology.com Title: Phone: (734) 521-8000 Fax: ()

WASTE INFORMATION

Name of Waste/Common Chemical Name:
Electroless Nickel

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

Waste electroless nickel baths spent and off spec**USEPA / STATE WASTE IDENTIFICATION**

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

PHYSICAL CHARACTERISTICS OF WASTE

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 checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 — 1.2 <input checked="" type="checkbox"/> 0.8 — 1.0 <input type="checkbox"/> 1.3 — 1.4 Exact / Other
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pH: ☐ NA ☐ < 2 ☐ 2 — 4 ☒ 4 — 6 ☐ 6 — 8 ☒ 8-10 ☐ 10 — 12.5 ☐ > 12.5Liquid Flash Point: ☐ < 73°F ☐ 73—100°F ☐ 101—140°F ☐ 141—200°F ☒ > 200°F ☐ None ☒ Closed Cup ☐ Open CupVOC 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
Nickel Plating Bath	0	100			
Solids	0	2			

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

If Generator knowledge-provide backup ☐ Lab Analysis ☒ Generator Knowledge

☐ TCLP ☐ TOTAL

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

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☒ Yes ☐ No
- Reportable Quantity (RQ) in pounds 100
- DOT Shipping Name Environmentally hazardous substances, liquid, n.o.s. Hazard Class 9 UN/NA 3082
PG III ERG 171 Hazardous Constituents for "n.o.s." Nickel Chloride, Nickel Sulfate
- Method of Shipment: ☒ Bulk Tanker ☐ Vac truck ☐ Rail Car ☒ Drums ☒ Totes
- Number of Units to Ship Now 5000 gallons 6. Anticipated Volume / Units per Year: 30,000 gallons or ☐ One Time
- Special Handling Requirements including PPE:

Level D PPE with chemical resistant gloves

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: Steve Gryniwicz Title: Materials Manager
Generator's Signature: Steve Gryniwicz Date: 1/5/23

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. _____ 2. _____
SAMPLING METHOD COLLECTION POINT

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

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

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

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



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 64402214813	Expiration Date 10/6/2023	
I. Decision Request:	<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Recertification	<input type="checkbox"/> Change
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: QUALITY METAL FINISHING			
Generator Site Address: 421 N. WALNUT ST			
City: BYRON	County: <input type="text"/>	State: IL	Zip: <input type="text"/>
Name of Waste: SPENT NITRIC ACID STRIP			
Estimated Annual Volume: 32 Drums			

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 # 64402214813

GENERATOR INFORMATIONName: QUALITY METAL FINISHING USEPA ID # ILD005215421Facility Address: 421 N. WALNUT ST SIC/NAICS Code: State Code: _____City: BYRON State: IL Zip Code: 61010Contact: JOE BORTOLI Title: MANAGER Phone: (312) 234-2777 Fax: () _____**BILLING INFORMATION**☐ SAME AS ABOVECompany Name: ASE ENVIRONMENTAL (ALLSOURCE)Address: 17W775 BUTTERFIELD RD / SUITE 102CCity: OAKBROOK TERRACE State: IL Zip Code: 60181Attention: JR WHITE Title: CEO Phone: (312) 417-9410 Fax: () _____**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

SPENT NITRIC ACID STRIP

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

NITRIC IS USED TO REMOVE TREEING OR METAL PLATING BUILDUP FROM RACK TIPS (WHERE PARTS ARE HUNG) OF PLATING PROCESS.**USEPA / STATE WASTE IDENTIFICATION**

1. This waste is considered to be: ☐ Non Hazardous Liquid Industrial Waste ☒ Hazardous Waste
2. Regulated by TSCA? ☐ Yes ☐ No (PCBs, etc.)
3. List ALL Applicable Waste Codes: D002 D007 D008 D010

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 — 1.2 <input type="checkbox"/> 0.8 — 1.0 <input type="checkbox"/> 1.3 — 1.4 Exact / Other <input type="text"/>	
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pH: ☐ NA ☒ < 2 ☐ 2 — 4 ☐ 4 — 6 ☐ 6 — 8 ☐ 8-10 ☐ 10 — 12.5 ☐ >12.5Liquid Flash Point: ☐ <73°F ☐ 73—100°F ☐ 101—140°F ☐ 141—200°F ☐ >200°F ☒ None ☐ Closed Cup ☐ Open CupVOC CONCENTRATION - NONE 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
NITRIC ACID	5	15	METALS (SEE ANALYSIS)	0	1
WATER	85	95			

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

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

	Not Present	Concentration	Not Present	Concentration					
PCB	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input checked="" type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	<5 ppm
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	<100 ppm
Cyanides Reactive	<input type="checkbox"/>	<1 ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	<1 ppm
Cyanides Total	<input type="checkbox"/>	<1 ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	<input type="checkbox"/>	<5 ppm 150 ppm
Sulfides Reactive	<input type="checkbox"/>	<10 ppm				Lead (Pb)	D008	<input type="checkbox"/>	<5 ppm 16 ppm
Sulfides Total	<input type="checkbox"/>	<10 ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	<0.2 ppm
						Selenium (Se)	D010	<input type="checkbox"/>	<1 ppm 2 ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/>	<5 ppm

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)?

☒ Yes ☐ No

2. Reportable Quantity (RQ) in pounds _____

3. DOT Shipping Name WASTE NITRATING ACID MIXTURE, SPENTHazard Class 8 UN/NA UN1826PG II ERG _____ Hazardous Constituents for "n.o.s." (NITRIC ACID, CHROMIUM)4. Method of Shipment: ☐ Bulk Tanker ☐ Vag truck ☐ Rail Car ☒ Drums ☐ Totes5. Number of Units to Ship Now 6-8 DRUMS 6. Anticipated Volume / Units per Year: 1000 24-32 DRUM or ☐ One Time.

6. Special Handling Requirements including PPE:

NITRILE GLOVES, FACE SHIELD, TYVEKDM = DRUM**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: JOE BORTOLITitle: PRESIDENT

Generator's Signature: _____

Date: 10/6/22

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 Environmental Geo-Technologies representative.

1. COMPOSITE2. 2 OF 6 DRUMS

SAMPLING METHOD

COLLECTION POINT

3. NATHAN HUDAK

SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. 001Preservation: 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
NATHAN HUDAK (HIGHWAY ENVIRO)	10/5/22				

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/17/22
Receiving ID#	Spent Nitric Acid Strip
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	Quality Metal Finishing
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	C. J. J.

LAB INFORMATION	
Compatible? (RT#)	No
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>148
pH (S.U.)	<0.1
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.66
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	48 uS/cm
% Solids	41.00
Turbidity	Yes No
Color	Blue-Green
TSS (%)	<0.1
Radiation Screen (as needed)	Neg
Lab Signature/Initials	JH

(See Attached Lab Notes)



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #
64402215272

Expiration Date
10/25/2023

I. Decision Request:

☒ Initial ☐ Recertification ☐ Change

Disposal Facility: 6440 - Detroit Ind Well

Generator Name: WOODARD

Generator Site Address: 210 S. DELANEY RD

City: OWOSSO

County:

State: MI

Zip:

Name of Waste: HEAT EXCHANGER CLEANING RINSE WATER

Estimated Annual Volume: 4000 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: 11/3/2022

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: 11-8-22

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

64402215272

Profile #

GENERATOR INFORMATION

Name: Woodard USEPA ID # MIR000014373
Facility Address: 210 S. Delaney Rd SIC/NAICS Code: 337110
City: Owosso State: MI Zip Code: 48867
Contact: Steve Inhulsen Title: Phone: (734) 725-4452 Fax: ()

BILLING INFORMATION☐ SAME AS ABOVE

Company Name: ERG Environmental Services
Address: 13040 Merriman Road
City: Livonia State: Zip Code:
Attention: Accounts Payable Title: Phone: (734) 437-9650 Fax: (734) 437-7651

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Heat Exchanger Cleaning Rinse Water

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

Rinse Water generated from the cleaning of a zinc phosphating heat exchanger.**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 type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0—1.2 <input type="checkbox"/> 0.8—1.0 <input type="checkbox"/> 1.3—1.4 Exact / Other
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pH: ☐ NA ☐ < 2 ☒ 2—4 ☐ 4—6 ☐ 6—8 ☐ 8-10 ☐ 10—12.5 ☐ >12.5Liquid Flash Point: ☐ <73°F ☐ 73—100°F ☐ 101—140°F ☐ 141—200°F ☒ >200°F ☐ None ☒ Closed Cup ☐ Open CupVOC 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
Heat Exchanger Acid Cleaner	1	2			
Bonderite Zinc Phosphate	1	5			
Water	93	98			

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-Poisoning 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-DOT, Non-RCRA Regulated

Hazard Class _____ UN/NA _____

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

4. Method of Shipment: ☒ Bulk Tanker ☒ Vac truck ☐ Rail Car ☐ Drums ☒ Totes5. Number of Units to Ship Now 3 - 4,000 gal 6. Anticipated Volume / Units per Year: 3-4,000 gal or ☐ One Time

6. Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

If this box is checked ☒ I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: Steve InhofertTitle: Production ManagerGenerator's Signature: Steve InhofertDate: 10-25-22

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 Environmental Geo-Technologies representative.

1. Grab 2. Tank
 SAMPLING METHOD COLLECTION POINT

3. Chas Petersen
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. 1 - Zinc stages descale 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

Sample ID: 1 - Zinc Stages Descale
 SDSs: Bonderite Zinc Phosphate
 Heat Exchanger Acid Cleaner



REPUBLIC
SERVICES

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 6440230633	Expiration Date 12/9/2023	
I. Decision Request:	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: ENDURA-MODERN WARREN DIVISION			
Generator Site Address: 12880 E 9 MILE RD			
City: WARREN	County: <input type="text"/>	State: MI	Zip: <input type="text"/>
Name of Waste: NICKEL STRIP			
Estimated Annual Volume: 28000 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: 1/26/2023

Name (Printed): Stephen Brown

III. Facility Decision:

☒ Approved ☐ Rejected

Precautions, Conditions or Limitations on Approval

NOT COMPATIBLE WITH KC Lanes. STRONG EXOTHERMIC REACTION WITH HCl.

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: 1-30-23

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 INFORMATIONName: Endura-Modern Warren Division USEPA ID # MID005503263Facility Address: 12880 E 9 Mile Rd SIC/NAICS Code: _____ State Code: _____City: Warren State: MI Zip Code: 48089

Contact: _____ Title: _____ Phone: () _____ Fax: () _____

BILLING INFORMATION☐ SAME AS ABOVECompany Name: Environmental & Disposal ManagementAddress: 1900 Stephenson Hwy Suite 100City: Troy State: MI Zip Code: 48314

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Nickel Strip

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

Strip - used to remove electroless nickel from a components**USEPA / STATE WASTE IDENTIFICATION**1. This waste is considered to be: ☒ Non Hazardous Liquid Industrial Waste ☐ Hazardous Waste2. Regulated by TSCA? ☐ Yes ☒ No (PCBs, etc.)

3. 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 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 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"/>	
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pH: ☐ NA ☐ < 2 ☐ 2 — 4 ☐ 4 — 6 ☐ 6 — 8 ☐ 8-10 ☒ 10 — 12.5 ☐ >12.5Liquid Flash Point: ☐ <73°F ☐ 73—100°F ☐ 101—140°F ☒ 141—200°F ☐ >200°F ☐ None ☐ Closed Cup ☐ Open CupVOC 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

water	90	95	%			%
dissolved nickel	5	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
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/> <100	ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/> <1	ppm
Cyanides Total	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/> <5	ppm
Sulfides Reactive	<input checked="" type="checkbox"/>	ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/> <5	ppm
Sulfides Total	<input checked="" type="checkbox"/>	ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/> <0.2	ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/> <1	ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/> <5	ppm

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

- ☐ Radioactive ☐ Water Reactive ☐ Oxidizer ☐ Shock Sensitive ☐ Reactive (other) ☐ DOT Explosives
☐ NIOSH Human-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 regulated

Hazard Class _____ UN/NA _____

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

4. Method of Shipment:

☒ Bulk Tanker☐ Vao truck☐ Rail Car☐ Drums☐ Totals5. Number of Units to Ship Now 6-7000 gl6. Anticipated Volume / Units per Year: 28000gl or ☐ One Time

6. Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

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

If this box is checked ☐ I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: Chris ScollinTitle: Plating Technician

Generator's Signature: _____

Date: 1-10-23

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. Grab2. Holding Tank

SAMPLING METHOD

COLLECTION POINT

3. Jay Kanapsky Account Manager EDM

SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

11/29/2022 42934.01
Nickel Strip

01/24/2023 EN Strip C.S.01/26/2023

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

F039 Analysis



31-Mar-2023

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

Re: **January F039 Leachate- 02.08.23**

Work Order: **23020751**

Dear Rick,

ALS Environmental received 1 sample on 09-Feb-2023 10:00 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 45.

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: Chelsey Cook

Chelsey Cook
Project 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: January F039 Leachate- 02.08.23
Work Order: 23020751

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>
23020751-01	January 2023 F039	Liquid		2/8/2023 12:30	2/9/2023 22:00	<input type="checkbox"/>

Client: Republic Industrial and Energy Solutions, LLC
Project: January F039 Leachate- 02.08.23
WorkOrder: 23020751

**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	

Client: Republic Industrial and Energy Solutions, LLC
Project: January F039 Leachate- 02.08.23
Work Order: 23020751

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.

Batch 211144, Method SW8081B, Sample January 2023 F039 (23020751-01A): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 211144, Method SW8081B, Sample January 2023 F039 (23020751-01A): Surrogate high due to matrix interference. Tetrachloro-m-xylene.

Batch 211144, Method SW8081B, Sample January 2023 F039 (23020751-01A): One or more of the surrogates were below the limits due to matrix interference. Decachlorobiphenyl.

Batch 211204, Method SW846 8270D, Sample January 2023 F039 (23020751-01A): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 211204, Method SW846 8270D, Sample January 2023 F039 (23020751-01A): Surrogate high due to matrix interference. 2,4,6-Tribromophenol.

Batch 211204, Method SW846 8270D, Sample January 2023 F039 (23020751-01A): One or more of the surrogates were below the limits due to matrix interference. Phenol-d6.

Batch 211204, Method SW846 8270D, Sample SLCSW1-211204: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No

Client: Republic Industrial and Energy Solutions, LLC

Project: January F039 Leachate- 02.08.23

Work Order: 23020751

Case Narrative

qualification is necessary for this analyte: 2,3,5,6-Tetrachlorophenol.

ALS Group, USA

Date: 31-Mar-2023

Client: Republic Industrial and Energy Solutions, LLC

Project: January F039 Leachate- 02.08.23

Sample ID: January 2023 F039

Collection Date: 2/8/2023 12:30 PM

Work Order: 23020751

Lab ID: 23020751-01

Matrix: LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PESTICIDES						
Aldrin	ND		0.18	µg/L	20	2/13/2023 06:54 PM
Surr: Decachlorobiphenyl	0	S	42-148	%REC	20	2/13/2023 06:54 PM
Surr: Tetrachloro-m-xylene	654	S	57-141	%REC	20	2/13/2023 06:54 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
N-Nitrosodimethylamine	ND		100	µg/L	5	2/15/2023 04:18 PM
Surr: 2,4,6-Tribromophenol	126	S	38-103	%REC	5	2/15/2023 04:18 PM
Surr: 2-Fluorobiphenyl	74.3		36-96	%REC	5	2/15/2023 04:18 PM
Surr: 2-Fluorophenol	47.3		20-73	%REC	5	2/15/2023 04:18 PM
Surr: 4-Terphenyl-d14	79.0		44-114	%REC	5	2/15/2023 04:18 PM
Surr: Nitrobenzene-d5	56.6		33-100	%REC	5	2/15/2023 04:18 PM
Surr: Phenol-d6	9.60	S	10-48	%REC	5	2/15/2023 04:18 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	See attached		SUBCONTRACT	as noted	1	3/31/2023 07:10 AM

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

ALS Group, USA

Date: 31-Mar-23

Client: Republic Industrial and Energy Solutions, LLC
Work Order: 23020751
Project: January F039 Leachate- 02.08.23

QC BATCH REPORT

Batch ID: **211144** Instrument ID **GC12** Method: **SW8081B**

MBLK		Sample ID: PBLKW1-211144-211144				Units: µg/L		Analysis Date: 2/13/2023 12:47 PM		
Client ID:		Run ID: GC12_230213A				SeqNo: 9271202		Prep Date: 2/10/2023		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.0088	0.010	0	0	0	0-0	0			J
Surr: Decachlorobiphenyl	0.272	0	0.25	0	109	42-148	0			
Surr: Tetrachloro-m-xylene	0.2194	0	0.25	0	87.8	57-141	0			

LCS		Sample ID: PLCSW1-211144-211144				Units: µg/L		Analysis Date: 2/13/2023 01:15 PM		
Client ID:		Run ID: GC12_230213A				SeqNo: 9271204		Prep Date: 2/10/2023		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.194	0.010	0.2	0	97	51-164	0			
Surr: Decachlorobiphenyl	0.274	0	0.25	0	110	42-148	0			
Surr: Tetrachloro-m-xylene	0.229	0	0.25	0	91.6	57-141	0			

LCSD		Sample ID: PLCSDW1-211144-211144				Units: µg/L		Analysis Date: 2/13/2023 01:29 PM		
Client ID:		Run ID: GC12_230213A				SeqNo: 9271205		Prep Date: 2/10/2023		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.1986	0.010	0.2	0	99.3	51-164	0.194	2.34	20	
Surr: Decachlorobiphenyl	0.2726	0	0.25	0	109	42-148	0.274	0.512	20	
Surr: Tetrachloro-m-xylene	0.2086	0	0.25	0	83.4	57-141	0.229	9.32	20	

The following samples were analyzed in this batch: 23020751-01A

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

Client: Republic Industrial and Energy Solutions, LLC
 Work Order: 23020751
 Project: January F039 Leachate- 02.08.23

QC BATCH REPORT

Batch ID: 211204 Instrument ID SVMS8 Method: SW846 8270D

MBLK		Sample ID: SBLKW1-211204-211204				Units: µg/L		Analysis Date: 2/13/2023 09:24 PM		
Client ID:		Run ID: SVMS8_230213A				SeqNo: 9278459		Prep Date: 2/13/2023		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	37.65	0	50	0	75.3	38-103	0			
Surr: 2-Fluorobiphenyl	31.63	0	50	0	63.3	36-96	0			
Surr: 2-Fluorophenol	22.29	0	50	0	44.6	20-73	0			
Surr: 4-Terphenyl-d14	34.08	0	50	0	68.2	44-114	0			
Surr: Nitrobenzene-d5	31.09	0	50	0	62.2	33-100	0			
Surr: Phenol-d6	13.72	0	50	0	27.4	10-48	0			

LCS		Sample ID: SLCSW1-211204-211204				Units: µg/L		Analysis Date: 2/13/2023 09:45 PM		
Client ID:		Run ID: SVMS8_230213A				SeqNo: 9278460		Prep Date: 2/13/2023		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	8.94	5.0	20	0	44.7	22-77	0			
Surr: 2,4,6-Tribromophenol	48.19	0	50	0	96.4	38-103	0			
Surr: 2-Fluorobiphenyl	38.78	0	50	0	77.6	36-96	0			
Surr: 2-Fluorophenol	24.85	0	50	0	49.7	20-73	0			
Surr: 4-Terphenyl-d14	39.45	0	50	0	78.9	44-114	0			
Surr: Nitrobenzene-d5	36.8	0	50	0	73.6	33-100	0			
Surr: Phenol-d6	16.12	0	50	0	32.2	10-48	0			

LCSD		Sample ID: SLCSWD1-211204-211204				Units: µg/L		Analysis Date: 2/13/2023 10:06 PM		
Client ID:		Run ID: SVMS8_230213A				SeqNo: 9278461		Prep Date: 2/13/2023		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	9.25	5.0	20	0	46.2	22-77	8.94	3.41	30	
Surr: 2,4,6-Tribromophenol	46.38	0	50	0	92.8	38-103	48.19	3.83	40	
Surr: 2-Fluorobiphenyl	38.09	0	50	0	76.2	36-96	38.78	1.8	40	
Surr: 2-Fluorophenol	24.17	0	50	0	48.3	20-73	24.85	2.77	40	
Surr: 4-Terphenyl-d14	37.3	0	50	0	74.6	44-114	39.45	5.6	40	
Surr: Nitrobenzene-d5	36.67	0	50	0	73.3	33-100	36.8	0.354	40	
Surr: Phenol-d6	15.49	0	50	0	31	10-48	16.12	3.99	40	

The following samples were analyzed in this batch: 23020751-01A

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



March 30, 2023

Service Request No:E2300160

Chelsey Cook
ALS - Holland
3352 128th Avenue
Holland, MI 49424

Laboratory Results for: 23020751

Dear Chelsey,

Enclosed are the results of the sample(s) submitted to our laboratory February 17, 2023
For your reference, these analyses have been assigned our service request number **E2300160**.

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 Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Environmental

Client: ALS Environmental – Holland
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request No.: E2300160
Date Received: 02/17/23

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 02/17/23.

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:

EQ2300100: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

B flags – Method Blanks

The Method Blank EQ2300100-01 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.

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.

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.

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Y flags – Labeled Standards

Quantification of the native 2,3,7,8-substituted congeners is based on isotopic dilution, which automatically corrects for variation in extraction efficiency and provides accurate values even with poor recovery. Samples that had recoveries of labeled standards outside the acceptance limits are qualified with 'Y' flags on the Labeled Compound summary pages. In all cases, the signal-to-noise ratios are greater than 10:1 and detection limits were below the Method Reporting Limits.

Holding Time

SW-846 Update VI (Table 4-1) eliminates holding times for Dioxins/Furans with proper sample storage as PCDDs and PCDFs are extremely stable in a variety of matrices.

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: 23020751

Service Request:E2300160

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E2300160-001	January 2023 F039	2/8/2023	1230

Service Request Summary

Folder #: E2300160
Client Name: ALS Environmental - Holland (MI)
Project Name: 23020751
Project Number:

Report To: Chelsey Cook
ALS - Holland
3352 128th Avenue
Holland, MI 49424
USA

Phone Number: 616-399-6070
Cell Number:
Fax Number: 616-399-6185
E-mail: chelsey.cook@alsglobal.com

1 250 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 8D
Pressure Gas:

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 02/17/23
Internal Due Date: 3/31/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: 20-23020751
EDD: No EDD Specified

Lab Samp No.	Client Samp No	Matrix	Collected	Semivo a GCMS
E2300160-001	January 2023 F039	Aqueous Leachate	02/08/23 1230	
				PCDD PCDF/8290
				II

Service Request Summary

Folder #: E2300160
Client Name: ALS Environmental - Holland (MI)
Project Name: 23020751
Project Number:

Report To: Chelsey Cook
ALS - Holland
3352 128th Avenue
Holland, MI 49424
USA

Phone Number: 616-399-6070
Cell Number:
Fax Number: 616-399-6185
E-mail: chelsey.cook@alsglobal.com

1 250 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 8D
Pressure Gas:

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 02/17/23
Internal Due Date: 3/31/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: 20-23020751
EDD: No EDD Specified

Data Qualifiers

HRMS Qualifier Set

- * Indicates the samples were extracted outside of the recommended holding time.
- 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.
- 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	CONCetration
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
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	LA028-2023	12/31/2023
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	11707	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 E2300160

DB-5MSUI

SPB-Octyl

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

Date: 03/29/23 Analyst: [Signature] Samples: 001

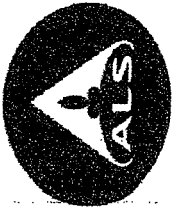
Second Level - Data Review – to be filled by person doing peer review

Date: 03/30/23 Analyst: [Signature] Samples: 001



Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com



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

TEL: (281) 530-5556
FAX: (281) 530-5887
Acct #:

CHAIN-OF-CUSTODY RECORD

Date: 13-Feb-23
COC ID: 22177
Due Date: 28-Feb-23

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis																	
ALS Account		ALS Account		Subcontracted Analyses (SUBCONTRACT)																	
Purchase Order	20-23020751	Project Name	23020751	A	B	C	D	E	F	G	H	I	J								
Work Order		Project Number		B	C	D	E	F	G	H	I	J									
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C	D	E	F	G	H	I	J										
Send Report To	Chelsey Cook	Inv Attn	Accounts Payable	D	E	F	G	H	I	J											
Address	3352 128th Ave	Address	3352 128th Ave	E	F	G	H	I	J												
City/State/Zip	Holland, Michigan 49424	City/State/Zip	Holland, Michigan 49424	F	G	H	I	J													
Phone	(616) 399-6070	Phone	(616) 399-6070	G	H	I	J														
Fax	(616) 399-6185	Fax	(616) 399-6185	H	I	J															
eMail Address	chelsey.cook@ALSGlobal.com	eMail CC		I	J																
ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle																	
23020751-01B	January 2023 F039	Liquid	8/Feb/2023 12:30	(1) 250AMGNEAT																	

Comments:

Please analyze the enclosed sample(s) for standard PCDDs/PCDFs (EPA 8290). Please provide a standard report and a "CRA 2.5 EDD".
Thank you.

Relinquished by:	Date/Time	Received by:	Date/Time	Cooler IDs	Report/QC Level
Chelsey Cook	2-13-23 2:00pm	Robert H	2-17-23 12:10		Sid
Relinquished by:	Date/Time	Received by:	Date/Time		



Cooler Receipt Form

Project Chemist JD

Client/Project ALS-M

Thermometer ID 1231

Date/Time Received: 2-17-23

Initials: LS

Date/Time Logged in: 2-17-23

Initials LS

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	COCID	Date Opened	Time Opened	Opened By	Temp °C	Temp Blank?
5591 4384 8194		2-17-23	1336	LS	4.9	<input 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
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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 Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 415712
Team: Semivoa GCMS/NBIDJONGO

Prep WorkFlow: OrgExtDioxAq-30
Prep Method: Method Sep Funnel/Jar

Status: Prepped
Prep Date/Time: 3/6/23 09:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300143-001	MWPS-GW-1398	.01	8290/PCDD PCDF	5	x	Water	2118mL	yellow clear
2	E2300143-002	MWPS-GW-1399	.01	8290/PCDD PCDF	6	x	Water	1878mL	yellow
3	E2300143-003	MWPS-GW-1400	.01	8290/PCDD PCDF	6	x	Water	1740mL	green clear
4	E2300143-004	MWPS-GW-1401	.01	8290/PCDD PCDF	6	x	Water	1760mL	Clear Cloudy
5	E2300143-005	MWPS-GW-1402	.01	8290/PCDD PCDF	6	x	Water	1934mL	yellow clear
6	E2300153-004	MWPS-GW-1406	.01	8290/PCDD PCDF	6	x	Water	1928mL	Clear cloudy
7	E2300153-005	MWPS-GW-1407	.01	8290/PCDD PCDF	5	x	Water	1808mL	clear
8	E2300155-001	MWPS-GW-1408	.01	8290/PCDD PCDF	5	x	Water	1936mL	Cloudy
9	E2300155-002	MWPS-GW-1409	.01	8290/PCDD PCDF	5	x	Water	1862mL	Clear green
10	E2300160-001	January 2023 F039	.01	8290/PCDD PCDF	8	x	Aqueous Leachate	125mL	greenish brown
11	E2300165-001	001 Outfall	.01	8290/PCDD PCDF	6	x	Water	1051mL	yellow cloudy
12	EQ2300100-01	MB		8290A/PCDD PCDF	5	x	Liquid	2000mL	
13	EQ2300100-02	LCS		8290A/PCDD PCDF	5	x	Liquid	2000mL	
14	EQ2300100-03	DLCS		8290A/PCDD PCDF	5	x	Liquid	2000mL	
15	R2300854-001	2301301456 600L-SB-23	.01	8290A/PCDD PCDF	5	x	Water	1064mL	Clear green
16	R2300856-001	2301311006 600L-SB-25	.01	8290A/PCDD PCDF	5	x	Water	1065mL	Clear green
17	R2300917-001	2302010736 600L-SB-24	.01	8290A/PCDD PCDF	5	x	Water	1063mL	Clear green
18	R2300940-001	2302031336 600L-SB-26	.01	8290A/PCDD PCDF	5	x	Water	1034mL	Clear green
19	R2300942-001	2302031441 600L-SB-21	.01	8290A/PCDD PCDF	5	x	Water	1005mL	Cloudy clear
20	R2300944-001	2302041136 600L-SB-22	.01	8290A/PCDD PCDF	5	x	Water	1023mL	Clear green
21	R2300946-001	2302041606 600L-SB-20	.01	8290A/PCDD PCDF	5	x	Water	1036mL	Clear green
22	R2301229-001	2302070906 200L-SB-10	.01	8290A/PCDD PCDF	5	x	Water	1059mL	Cloudy clear

Spiking Solutions

Name:	1613B Matrix Working Standard	Inventory ID	227519	Logbook Ref:	tw 02/08/23 227519	Expires On:	08/07/2023
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EQ2300100-02 100.00µL EQ2300100-02 100.00µL EQ2300100-03 100.00µL EQ2300100-03 100.00µL

Name:	1613B Labeled Working Standard	Inventory ID	227963	Logbook Ref:	NB 03/07/2023 lws @2-4ng/mL	Expires On:	04/10/2023
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E2300143-001	1,000.00µL	E2300143-002	1,000.00µL	E2300143-003	1,000.00µL	E2300143-004	1,000.00µL	E2300143-005	1,000.00µL	E2300153-004	1,000.00µL
E2300153-005	1,000.00µL	E2300155-001	1,000.00µL	E2300155-002	1,000.00µL	E2300160-001	1,000.00µL	E2300165-001	1,000.00µL	EQ2300100-01	1,000.00µL
EQ2300100-01	1,000.00µL	EQ2300100-02	1,000.00µL	EQ2300100-02	1,000.00µL	EQ2300100-03	1,000.00µL	EQ2300100-03	1,000.00µL	R2300854-001	1,000.00µL
R2300856-001	1,000.00µL	R2300917-001	1,000.00µL	R2300940-001	1,000.00µL	R2300942-001	1,000.00µL	R2300944-001	1,000.00µL	R2300946-001	1,000.00µL
R2301229-001	1,000.00µL										

Preparation Information Benchsheet

Prep Run#: 415712
Team: Semivoa GCMS/NBIDJONGO

Prep WorkFlow: OrgExtDioxAq-30
Prep Method: Method

Status: Prepped
Prep Date/Time: 3/6/23 09:00

Name: 8290/1613B Cleanup Working Standard		Inventory ID	227977	Logbook Ref: NB 03/08/23 CwS@8ng/mL		Expires On: 09/04/2023	
E2300143-001	100.00µL	E2300143-002	100.00µL	E2300143-004	100.00µL	E2300143-005	100.00µL
E2300153-005	100.00µL	E2300155-001	100.00µL	E2300160-001	100.00µL	E2300165-001	100.00µL
EQ2300100-01	100.00µL	EQ2300100-02	100.00µL	EQ2300100-03	100.00µL	EQ2300100-03	100.00µL
R2300856-001	100.00µL	R2300917-001	100.00µL	R2300940-001	100.00µL	R2300944-001	100.00µL
R2301229-001	100.00µL					R2300946-001	100.00µL

Preparation Materials

Carbon, High Purity	OO carbon 03/08/2023 (227980)	Ethyl Acetate 99.9% Minimum	BF 12/09/22 (226524)	Glass Wool	bf 12/08/2022 (226936)
Hexanes 95%	NB 02/02/23 Hexanes (227456)	Chlorine Test Strips	NB 11/22/22 Chlorine (226261)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	NB 02/02/23 CH3Cl2 (227457)
Sodium Sulfate Anhydrous	SN 5/18/22 (223143)	Tridecane (n-Tridecane)	bf 12/19/2022 (226823)	pH Paper 0-14	NB 11/22/22 pH0-14 (226262)
Reagent Grade Na2SO4		sulfuric acid	NB 02/02/23 H2SO4 (227458)	Toluene 99.9% Minimum	toluene 02/28/23 (227845)
Silica Gel	bf 01/09/2023 (227218)				

Preparation Steps

Step:	Extraction	Step:	Silica Gel Clean	Step:	Final Volume
Started:	3/6/23 09:00	Started:	3/8/23 09:00	Started:	3/16/23 09:00
Finished:	3/6/23 17:00	Finished:	3/8/23 14:00	Finished:	3/16/23 15:00
By:	NBIDJONGO	By:	NBIDJONGO	By:	NBIDJONGO
Comments	Comments	Comments	Comments	Comments	Comments

Comments:

Reviewed By: NB Date: 03/06/23

Chain of Custody

Relinquished By:

Date:

Extracts Examined

Received By:

Date:

Yes No



Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Collected: 02/08/23 12:30
Date Received: 02/17/23 13:20

Sample Name: January 2023 F039
Lab Code: E2300160-001

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 125mL

Date Analyzed: 03/27/23 18:07
Date Extracted: 3/6/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P635787

Data File Name: P635792
ICAL Date: 03/15/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	50.5K		17.3	40.0	0.93	1.001	1
1,2,3,7,8-PeCDD	64.5J		9.19	200	1.78	1.000	1
1,2,3,4,7,8-HxCDD	27.8JK		6.22	200	0.70	1.001	1
1,2,3,6,7,8-HxCDD	88.0J		5.93	200	1.10	1.000	1
1,2,3,7,8,9-HxCDD	43.5J		5.84	200	1.08	1.006	1
1,2,3,4,6,7,8-HpCDD	633		25.5	200	0.94	1.000	1
OCDD	4690		22.7	400	0.82	1.000	1
2,3,7,8-TCDF	233		9.56	40.0	0.84	1.001	1
1,2,3,7,8-PeCDF	1450		46.3	200	1.54	1.001	1
2,3,4,7,8-PeCDF	1290		51.2	200	1.58	1.000	1
1,2,3,4,7,8-HxCDF	13500		29.3	200	1.17	1.000	1
1,2,3,6,7,8-HxCDF	4360		32.3	200	1.22	1.000	1
1,2,3,7,8,9-HxCDF	403		37.8	200	1.41	1.001	1
2,3,4,6,7,8-HxCDF	901		26.9	200	1.20	1.000	1
1,2,3,4,6,7,8-HpCDF	81500		53.3	200	0.99	1.000	1
1,2,3,4,7,8,9-HpCDF	1400		59.6	200	0.99	1.000	1
OCDF	109000		19.6	400	0.85	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Collected: 02/08/23 12:30
Date Received: 02/17/23 13:20

Sample Name: January 2023 F039
Lab Code: E2300160-001

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 125mL

Date Analyzed: 03/27/23 18:07
Date Extracted: 3/6/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P635787

Data File Name: P635792
ICAL Date: 03/15/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	425		17.3	40.0	0.82		1
Total Penta-Dioxins	473		9.19	200	1.57		1
Total Hexa-Dioxins	318		6.00	200	1.21		1
Total Hepta-Dioxins	1560		25.5	200	0.99		1
Total Tetra-Furans	14500		9.56	40.0	0.72		1
Total Penta-Furans	21200		5.01	200	1.36		1
Total Hexa-Furans	37300		31.2	200	1.25		1
Total Hepta-Furans	87200		56.4	200	0.99		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Collected: 02/08/23 12:30
Date Received: 02/17/23 13:20

Sample Name: January 2023 F039
Lab Code: E2300160-001

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 125mL

Date Analyzed: 03/27/23 18:07
Date Extracted: 3/6/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P635787

Data File Name: P635792
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	1156.155	58		40-135	0.76	1.019
13C-1,2,3,7,8-PeCDD	2000	1195.323	60		40-135	1.60	1.172
13C-1,2,3,4,7,8-HxCDD	2000	1099.947	55		40-135	1.22	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1164.718	58		40-135	1.27	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	746.140	37	Y	40-135	1.06	1.066
13C-OCDD	4000	916.351	23	Y	40-135	0.88	1.142
13C-2,3,7,8-TCDF	2000	1156.745	58		40-135	0.77	0.994
13C-1,2,3,7,8-PeCDF	2000	1370.349	69		40-135	1.54	1.133
13C-2,3,4,7,8-PeCDF	2000	1207.520	60		40-135	1.59	1.163
13C-1,2,3,4,7,8-HxCDF	2000	1087.284	54		40-135	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	951.396	48		40-135	0.50	0.975
13C-1,2,3,7,8,9-HxCDF	2000	983.768	49		40-135	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1201.096	60		40-135	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	728.584	36	Y	40-135	0.43	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	892.795	45		40-135	0.42	1.079
37Cl-2,3,7,8-TCDD	800	359.758	45		40-135	NA	1.020

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate
Sample Name: January 2023 F039
Lab Code: E2300160-001

Service Request: E2300160
Date Collected: 02/08/23 12:30
Date Received: 02/17/23 13:20

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
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	50.5	17.3	40.0	1	1	50.5
1,2,3,7,8-PeCDD	64.5	9.19	200	1	1	64.5
1,2,3,4,7,8-HxCDD	27.8	6.22	200	1	0.1	2.78
1,2,3,6,7,8-HxCDD	88.0	5.93	200	1	0.1	8.80
1,2,3,7,8,9-HxCDD	43.5	5.84	200	1	0.1	4.35
1,2,3,4,6,7,8-HpCDD	633	25.5	200	1	0.01	6.33
OCDD	4690	22.7	400	1	0.0003	1.41
2,3,7,8-TCDF	233	9.56	40.0	1	0.1	23.3
1,2,3,7,8-PeCDF	1450	46.3	200	1	0.03	43.5
2,3,4,7,8-PeCDF	1290	51.2	200	1	0.3	387
1,2,3,4,7,8-HxCDF	13500	29.3	200	1	0.1	1350
1,2,3,6,7,8-HxCDF	4360	32.3	200	1	0.1	436
1,2,3,7,8,9-HxCDF	403	37.8	200	1	0.1	40.3
2,3,4,6,7,8-HxCDF	901	26.9	200	1	0.1	90.1
1,2,3,4,6,7,8-HpCDF	81500	53.3	200	1	0.01	815
1,2,3,4,7,8,9-HpCDF	1400	59.6	200	1	0.01	14.0
OCDF	109000	19.6	400	1	0.0003	32.7
Total TEQ						3370

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300100-01

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 2000mL

Date Analyzed: 03/28/23 15:15
Date Extracted: 3/6/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P541696

Data File Name: P541700
ICAL Date: 02/09/23

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.12	2.50			1
1,2,3,7,8-PeCDD	ND	U	0.598	12.5			1
1,2,3,4,7,8-HxCDD	1.10J		0.243	12.5	1.09	1.000	1
1,2,3,6,7,8-HxCDD	0.239JK		0.237	12.5	0.61	1.000	1
1,2,3,7,8,9-HxCDD	ND	U	0.235	12.5			1
1,2,3,4,6,7,8-HpCDD	0.496JK		0.376	12.5	3.22	1.001	1
OCDD	2.30JK		0.527	25.0	0.63	1.000	1
2,3,7,8-TCDF	ND	U	0.889	2.50			1
1,2,3,7,8-PeCDF	ND	U	0.322	12.5			1
2,3,4,7,8-PeCDF	ND	U	0.347	12.5			1
1,2,3,4,7,8-HxCDF	ND	U	0.335	12.5			1
1,2,3,6,7,8-HxCDF	ND	U	0.373	12.5			1
1,2,3,7,8,9-HxCDF	0.574JK		0.441	12.5	0.77	1.000	1
2,3,4,6,7,8-HxCDF	ND	U	0.314	12.5			1
1,2,3,4,6,7,8-HpCDF	0.402JK		0.0890	12.5	0.76	1.000	1
1,2,3,4,7,8,9-HpCDF	0.289J		0.0965	12.5	1.18	1.000	1
OCDF	ND	U	1.42	25.0			1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate
Sample Name: Method Blank
Lab Code: EQ2300100-01

Service Request: E2300160
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 2000mL
Data File Name: P541700
ICAL Date: 02/09/23

Date Analyzed: 03/28/23 15:15
Date Extracted: 3/6/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P541696

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.12	2.50			1
Total Penta-Dioxins	ND	U	0.598	12.5			1
Total Hexa-Dioxins	1.10J		0.238	12.5	1.09		1
Total Hepta-Dioxins	ND	U	0.376	12.5			1
Total Tetra-Furans	ND	U	0.889	2.50			1
Total Penta-Furans	ND	U	0.334	12.5			1
Total Hexa-Furans	ND	U	0.360	12.5			1
Total Hepta-Furans	0.289J		0.0925	12.5	1.18		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300100-01

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 2000mL

Date Analyzed: 03/28/23 15:15
Date Extracted: 3/6/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P541696

Data File Name: P541700
ICAL Date: 02/09/23

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	1221.932	61		40-135	0.80	1.020
13C-1,2,3,7,8-PeCDD	2000	1287.997	64		40-135	1.57	1.184
13C-1,2,3,4,7,8-HxCDD	2000	1240.615	62		40-135	1.31	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1226.987	61		40-135	1.21	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	995.294	50		40-135	1.05	1.066
13C-OCDD	4000	1600.050	40		40-135	0.89	1.141
13C-2,3,7,8-TCDF	2000	1089.808	54		40-135	0.78	0.993
13C-1,2,3,7,8-PeCDF	2000	1398.770	70		40-135	1.59	1.142
13C-2,3,4,7,8-PeCDF	2000	1250.538	63		40-135	1.61	1.174
13C-1,2,3,4,7,8-HxCDF	2000	1292.773	65		40-135	0.49	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1083.386	54		40-135	0.50	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1149.316	57		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1353.451	68		40-135	0.50	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	966.742	48		40-135	0.43	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1209.634	60		40-135	0.42	1.079
37Cl-2,3,7,8-TCDD	800	423.683	53		40-135	NA	1.021



Accuracy & Precision

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Analyzed: 03/27/23
Date Extracted: 03/06/23

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

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar

Units: pg/L
Basis: NA
Analysis Lot: 799329

Lab Control Sample
EQ2300100-02

Duplicate Lab Control Sample
EQ2300100-03

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD	487	500	97	476	500	95	70-130	2	25
1,2,3,4,7,8-HxCDD	443	500	89	421	500	84	70-130	5	25
1,2,3,6,7,8-HxCDD	425	500	85	406	500	81	70-130	5	25
1,2,3,7,8,9-HxCDD	435	500	87	424	500	85	70-130	3	25
1,2,3,7,8-PeCDD	476	500	95	447	500	89	70-130	6	25
2,3,7,8-TCDD	87.6	100	88	85.4	100	85	70-130	3	25
OCDD	972	1000	97	901	1000	90	70-130	8	25
1,2,3,4,6,7,8-HpCDF	461	500	92	431	500	86	70-130	7	25
1,2,3,4,7,8,9-HpCDF	384	500	77	354	500	71	70-130	8	25
1,2,3,4,7,8-HxCDF	408	500	82	405	500	81	70-130	<1	25
1,2,3,6,7,8-HxCDF	451	500	90	435	500	87	70-130	3	25
1,2,3,7,8,9-HxCDF	446	500	89	415	500	83	70-130	7	25
1,2,3,7,8-PeCDF	379	500	76	367	500	73	70-130	3	25
2,3,4,6,7,8-HxCDF	374	500	75	356	500	71	70-130	5	25
2,3,4,7,8-PeCDF	440	500	88	427	500	85	70-130	3	25
2,3,7,8-TCDF	79.9	100	80	74.3	100	74	70-130	7	25
OCDF	880	1000	88	832	1000	83	70-130	6	25

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300100-02

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 2000mL

Date Analyzed: 03/27/23 22:16
Date Extracted: 3/6/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P635787

Data File Name: P635797
ICAL Date: 03/15/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	87.6		0.733	2.50	0.74	1.001	1
1,2,3,7,8-PeCDD	476		0.588	12.5	1.62	1.000	1
1,2,3,4,7,8-HxCDD	443		0.0930	12.5	1.24	1.000	1
1,2,3,6,7,8-HxCDD	425		0.0910	12.5	1.24	1.000	1
1,2,3,7,8,9-HxCDD	435		0.0885	12.5	1.22	1.007	1
1,2,3,4,6,7,8-HpCDD	487		0.178	12.5	1.02	1.000	1
OCDD	972		4.75	25.0	0.90	1.000	1
2,3,7,8-TCDF	79.9		0.371	2.50	0.73	1.001	1
1,2,3,7,8-PeCDF	379		0.230	12.5	1.54	1.001	1
2,3,4,7,8-PeCDF	440		0.252	12.5	1.59	1.000	1
1,2,3,4,7,8-HxCDF	408		0.115	12.5	1.20	1.000	1
1,2,3,6,7,8-HxCDF	451		0.130	12.5	1.25	1.000	1
1,2,3,7,8,9-HxCDF	446		0.139	12.5	1.21	1.000	1
2,3,4,6,7,8-HxCDF	374		0.103	12.5	1.19	1.000	1
1,2,3,4,6,7,8-HpCDF	461		0.570	12.5	1.02	1.000	1
1,2,3,4,7,8,9-HpCDF	384		0.574	12.5	0.96	1.000	1
OCDF	880		1.91	25.0	0.87	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300100-02

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 2000mL

Date Analyzed: 03/27/23 22:16
Date Extracted: 3/6/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P635787

Data File Name: P635797
ICAL Date: 03/15/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	87.6		0.733	2.50	0.74		1
Total Penta-Dioxins	479		0.588	12.5	1.62		1
Total Hexa-Dioxins	1300		0.0905	12.5	1.24		1
Total Hepta-Dioxins	487		0.178	12.5	1.02		1
Total Tetra-Furans	80.3		0.371	2.50	0.86		1
Total Penta-Furans	819		0.240	12.5	1.54		1
Total Hexa-Furans	1680		0.120	12.5	1.20		1
Total Hepta-Furans	844		0.571	12.5	1.02		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300100-02

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 2000mL

Date Analyzed: 03/27/23 22:16
Date Extracted: 3/6/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P635787

Data File Name: P635797
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	1346.537	67		40-135	0.79	1.019
13C-1,2,3,7,8-PeCDD	2000	1360.108	68		40-135	1.59	1.172
13C-1,2,3,4,7,8-HxCDD	2000	1543.529	77		40-135	1.25	0.992
13C-1,2,3,6,7,8-HxCDD	2000	1632.223	82		40-135	1.21	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1236.482	62		40-135	1.02	1.066
13C-OCDD	4000	2201.042	55		40-135	0.89	1.143
13C-2,3,7,8-TCDF	2000	1384.356	69		40-135	0.77	0.994
13C-1,2,3,7,8-PeCDF	2000	1579.147	79		40-135	1.62	1.132
13C-2,3,4,7,8-PeCDF	2000	1385.133	69		40-135	1.56	1.163
13C-1,2,3,4,7,8-HxCDF	2000	1491.918	75		40-135	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1298.263	65		40-135	0.53	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1421.542	71		40-135	0.53	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1690.351	85		40-135	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1124.833	56		40-135	0.42	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1556.361	78		40-135	0.42	1.079
37Cl-2,3,7,8-TCDD	800	321.323	40		40-135	NA	1.020

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300100-03

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 2000mL

Date Analyzed: 03/27/23 23:06
Date Extracted: 3/6/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P635787

Data File Name: P635798
ICAL Date: 03/15/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	85.4		0.717	2.50	0.76	1.001	1
1,2,3,7,8-PeCDD	447		0.298	12.5	1.58	1.000	1
1,2,3,4,7,8-HxCDD	421		0.211	12.5	1.32	1.000	1
1,2,3,6,7,8-HxCDD	406		0.202	12.5	1.28	1.000	1
1,2,3,7,8,9-HxCDD	424		0.199	12.5	1.23	1.006	1
1,2,3,4,6,7,8-HpCDD	476		0.179	12.5	0.98	1.000	1
OCDD	901		1.82	25.0	0.90	1.000	1
2,3,7,8-TCDF	74.3		0.219	2.50	0.74	1.001	1
1,2,3,7,8-PeCDF	367		0.277	12.5	1.58	1.001	1
2,3,4,7,8-PeCDF	427		0.304	12.5	1.54	1.000	1
1,2,3,4,7,8-HxCDF	405		0.0970	12.5	1.22	1.000	1
1,2,3,6,7,8-HxCDF	435		0.110	12.5	1.23	1.000	1
1,2,3,7,8,9-HxCDF	415		0.115	12.5	1.23	1.000	1
2,3,4,6,7,8-HxCDF	356		0.0865	12.5	1.23	1.000	1
1,2,3,4,6,7,8-HpCDF	431		0.637	12.5	1.02	1.000	1
1,2,3,4,7,8,9-HpCDF	354		0.589	12.5	0.99	1.000	1
OCDF	832		4.04	25.0	0.89	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300100-03

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 2000mL

Date Analyzed: 03/27/23 23:06
Date Extracted: 3/6/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P635787

Data File Name: P635798
ICAL Date: 03/15/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	85.7		0.717	2.50	0.76		1
Total Penta-Dioxins	447		0.298	12.5	1.58		1
Total Hexa-Dioxins	1250		0.204	12.5	1.32		1
Total Hepta-Dioxins	476		0.179	12.5	0.98		1
Total Tetra-Furans	74.8		0.219	2.50	0.86		1
Total Penta-Furans	801		0.290	12.5	1.58		1
Total Hexa-Furans	1610		0.101	12.5	1.22		1
Total Hepta-Furans	787		0.611	12.5	1.02		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 23020751
Sample Matrix: Aqueous Leachate

Service Request: E2300160
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300100-03

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method Sep Funnel/Jar
Sample Amount: 2000mL

Date Analyzed: 03/27/23 23:06
Date Extracted: 3/6/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P541700
Cal Ver. File Name: P635787

Data File Name: P635798
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	1400.658	70		40-135	0.79	1.019
13C-1,2,3,7,8-PeCDD	2000	1438.281	72		40-135	1.61	1.172
13C-1,2,3,4,7,8-HxCDD	2000	1537.332	77		40-135	1.29	0.992
13C-1,2,3,6,7,8-HxCDD	2000	1633.960	82		40-135	1.26	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1244.602	62		40-135	1.07	1.066
13C-OCDD	4000	1946.886	49		40-135	0.92	1.143
13C-2,3,7,8-TCDF	2000	1395.790	70		40-135	0.76	0.994
13C-1,2,3,7,8-PeCDF	2000	1670.567	84		40-135	1.57	1.133
13C-2,3,4,7,8-PeCDF	2000	1459.073	73		40-135	1.56	1.163
13C-1,2,3,4,7,8-HxCDF	2000	1485.224	74		40-135	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1271.927	64		40-135	0.52	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1476.154	74		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1683.082	84		40-135	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1164.909	58		40-135	0.42	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1619.325	81		40-135	0.43	1.079
37Cl-2,3,7,8-TCDD	800	252.843	32		40-135	NA	1.020

Sample Receipt Checklist

Client Name: REPULICINDUSTRIAL - ROMULU

Date/Time Received: 09-Feb-23 22:00

Work Order: 23020751

Received by: DS

Checklist completed by Diane Shaw
eSignature

10-Feb-23
Date

Reviewed by: Chelsey Cook
eSignature

13-Feb-23
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):	<div>3.9/4.9 c</div> <div>IR3</div>		
Cooler(s)/Kit(s):	<div></div>		
Date/Time sample(s) sent to storage:	<div>2/10/2023 8:53:19 AM</div>		
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 type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<div></div>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: