



**REPUBLIC**  
SERVICES

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

May 9th, 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 tenth 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 March 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 Rate**

CURRENT REPORTING YEAR 2023

CURRENT REPORTING MONTH March

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

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
<b>MI-163-1W-C010 , Well #1-12</b>			
Current Month	954,177	0	954,177
Since facility first injected			52,909,056
<b>MI-163-1W-C011, Well #2-12</b>			
Current Month	1,117,186	0	1,117,186
Since facility first injected			33,457,799
		Lifetime Combined	86,366,855

Conversion factors

365.25 days per year ÷ 12 months per year = 30.4375 days per month

30.4375 days per month × 1440 minutes per day = 43,830 minutes per month

Calculations

Whole number of months of injection 111

111 lifetime number of months of injection × 43,830 minutes/month  
= 4,865,130 minutes of injection

Lifetime combined injected volume 86,366,855 ÷ 4,865,130 minutes of injection  
= 17.75 gpm average injection rate

**WELL 1 DATA**



**Injection Well 1, March 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
3/1/2023	149.6	868.6	19.9	20.0	797.2	1249.8	2.0	7.8	0.0	55.2	296.8	884.9
3/2/2023	140.0	940.0	20.0	20.0	965.1	1304.0	1.6	7.0	0.0	59.5	360.1	859.1
3/3/2023	147.7	940.1	19.9	20.0	972.3	1,320.7	1.9	7.9	0.0	58.6	360.8	872.3
3/4/2023	141.9	163.8	19.9	20.0	1009.9	1,042.1	6.9	7.5	0.0	0.0	846.1	900.3
3/5/2023	133.0	142.2	19.9	20.0	1,039.5	1,042.4	6.8	7.0	0.0	0.0	899.4	907.2
3/6/2023	128.3	939.3	19.9	20.0	983.9	1,301.3	2.2	8.0	0.0	58.8	347.5	908.0
3/7/2023	145.8	940.1	19.9	20.0	979.1	1,340.1	2.1	7.9	0.0	58.7	354.6	859.4
3/8/2023	136.2	940.1	19.9	20.0	999.5	1,325.5	1.6	7.3	0.0	63.2	339.9	880.1
3/9/2023	137.8	936.3	19.9	20.0	976.7	1,316.0	2.0	7.6	0.0	57.6	347.8	865.1
3/10/2023	151.2	940.5	19.9	20.0	957.3	1,302.6	1.9	7.5	0.0	62.5	332.0	844.7
3/11/2023	147.4	937.7	19.9	20.0	957.2	1,273.6	1.9	7.8	0.0	59.0	330.7	842.7
3/12/2023	134.7	148.4	19.8	20.0	990.1	996.6	5.8	5.8	0.0	0.0	841.9	860.8
3/13/2023	132.0	940.2	19.8	19.9	911.7	1,262.1	2.1	7.2	0.0	56.9	307.4	862.4
3/14/2023	129.6	942.1	19.8	19.9	907.5	1,241.6	1.4	7.2	0.0	58.4	269.5	823.2
3/15/2023	129.0	140.0	19.8	19.9	936.4	971.9	1.4	6.2	0.0	0.0	796.5	836.7
3/16/2023	6.2	940.1	18.8	20.0	913.4	1,351.2	1.6	7.1	0.0	71.1	188.5	954.1
3/17/2023	94.1	806.4	19.0	19.1	1,087.9	1,449.6	1.5	6.1	0.0	73.4	528.9	1067.5
3/18/2023	108.1	119.5	18.9	19.1	1,110.0	1,146.6	3.3	3.4	0.0	0.0	990.6	1038.2
3/19/2023	104.4	108.5	18.9	19.0	1,141.5	1,146.4	3.3	3.4	0.0	0.0	1036.8	1038.9
3/20/2023	103.0	940.4	18.9	19.1	1094.3	1,386.8	1.7	7.4	0.0	81.4	445.6	1037.6
3/21/2023	133.1	938.1	19.0	19.2	1029.1	1,379.5	1.5	7.6	0.0	59.5	398.4	937.3
3/22/2023	16.8	900.2	19.1	19.1	952.3	1,384.7	1.3	7.5	0.0	59.6	421.3	996.9
3/23/2023	111.9	940.0	19.1	19.1	999.2	1,406.2	1.7	7.2	0.0	60.9	462.1	941.3
3/24/2023	154.3	940.4	19.0	19.1	1078.0	1,428.5	2.0	7.5	0.0	74.8	463.3	947.2
3/25/2023	-6.5	940.1	19.0	19.1	1012.6	1401.4	1.3	7.4	0.0	65.8	456.2	1061.2
3/26/2023	-6.2	-4.3	19.0	19.1	1054.4	1058.1	1.7	2.4	0.0	18.5	1060.4	1063.2
3/27/2023	-5.0	909.7	19.0	19.1	1054.7	1386.4	1.4	7.2	0.0	66.0	474.7	1061.8
3/28/2023	136.2	919.3	19.0	19.1	1072.8	1420.3	1.7	7.2	0.0	64.9	463.6	943.0
3/29/2023	136.6	920.6	19.0	19.1	1044.1	1404.7	1.2	7.3	0.0	66.3	482.5	942.5
3/30/2023	123.5	913.4	19.0	19.1	1019.5	1379.2	2.5	8.3	0.0	69.3	461.4	934.9
3/31/2023	134.7	940.1	19.0	19.2	1051.2	1372.0	4.4	8.4	0.0	65.9	431.8	924.7

## Circle Chart Index

Republic Industrial Energy Solutions, 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

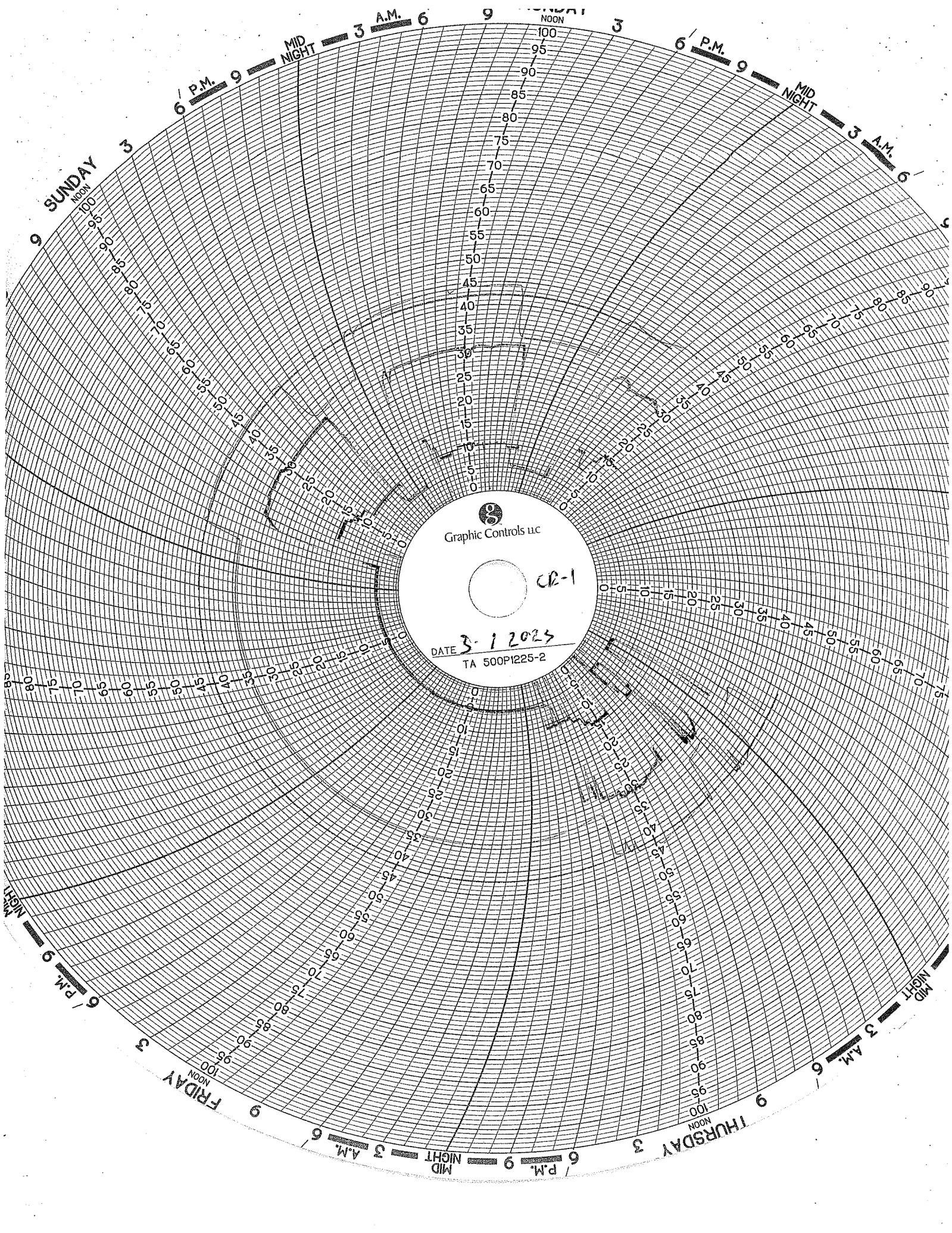
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

channel *tm*

Black Pen — Temperature (chart value x 0)



Graphic Controls LLC

CR-1

DATE 3-1-2023  
TA 500PI225-2

SUNDAY  
NOON

6 P.M.

MID NIGHT

3 A.M.

NOON

6 P.M.

MID NIGHT

3 A.M.

MID NIGHT

6 P.M.

FRIDAY  
NOON

3 A.M.

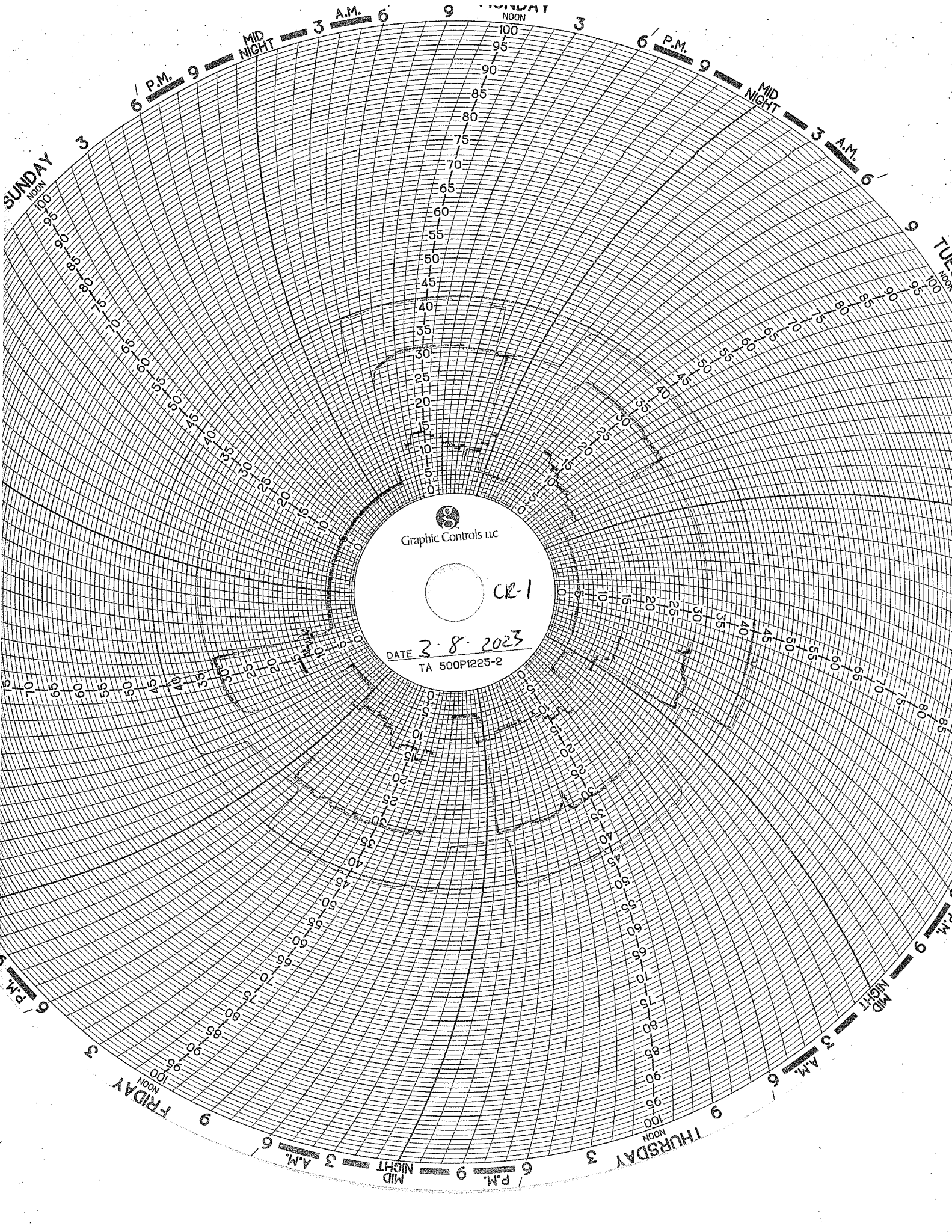
MID NIGHT

6 P.M.

THURSDAY  
NOON

3 A.M.

MID NIGHT

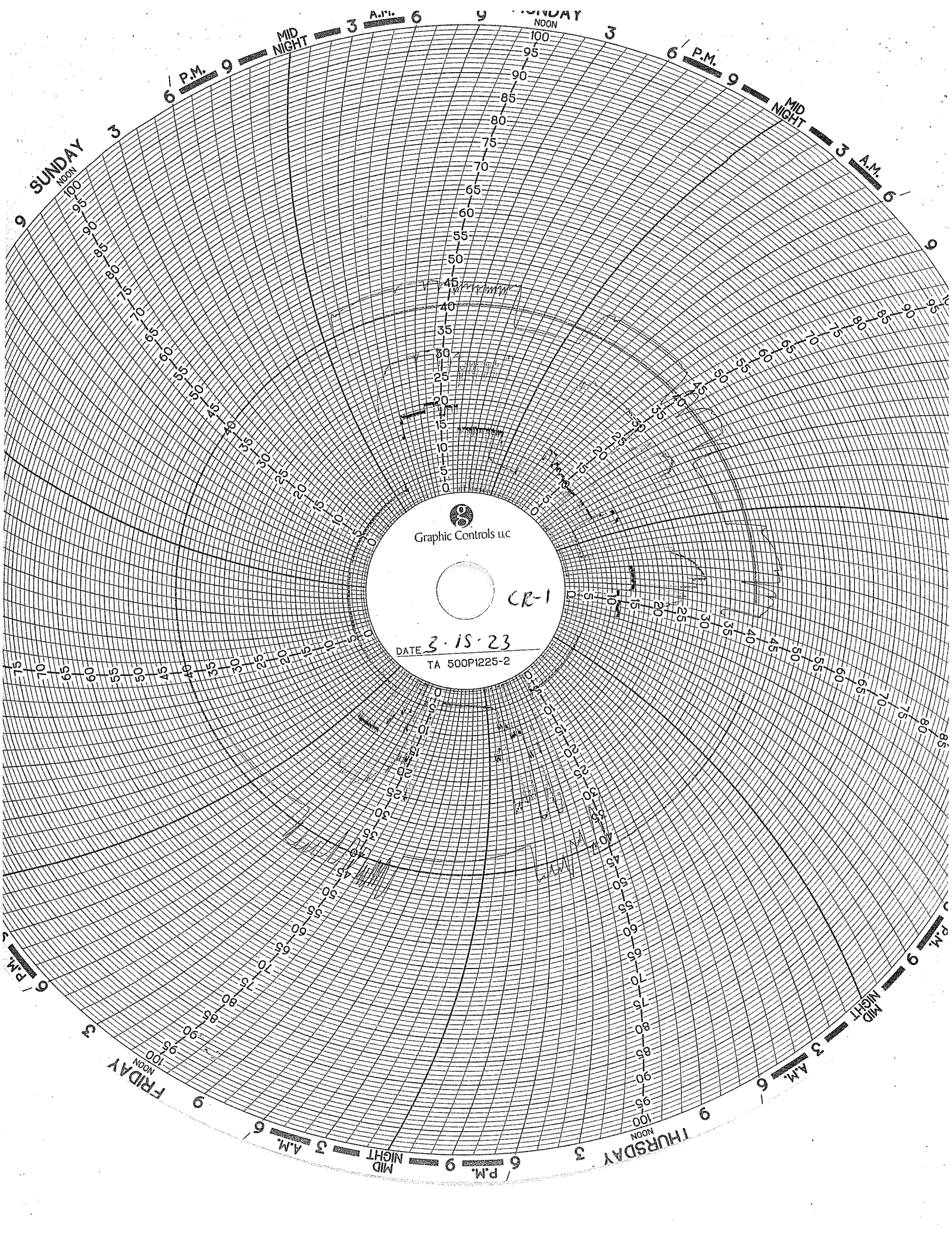


Graphic Controls LLC

CR-1

DATE 3-8-2023  
TA 500P1225-2





Graphic Controls LLC

CR-1

DATE 3-15-23

TA 500P1225-2

SUNDAY

MONDAY

3

6 P.M.

MID NIGHT

3 A.M.

6

9

NOON

6 P.M.

MID NIGHT

3 A.M.

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NOON

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P.M.

MID NIGHT

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FRIDAY

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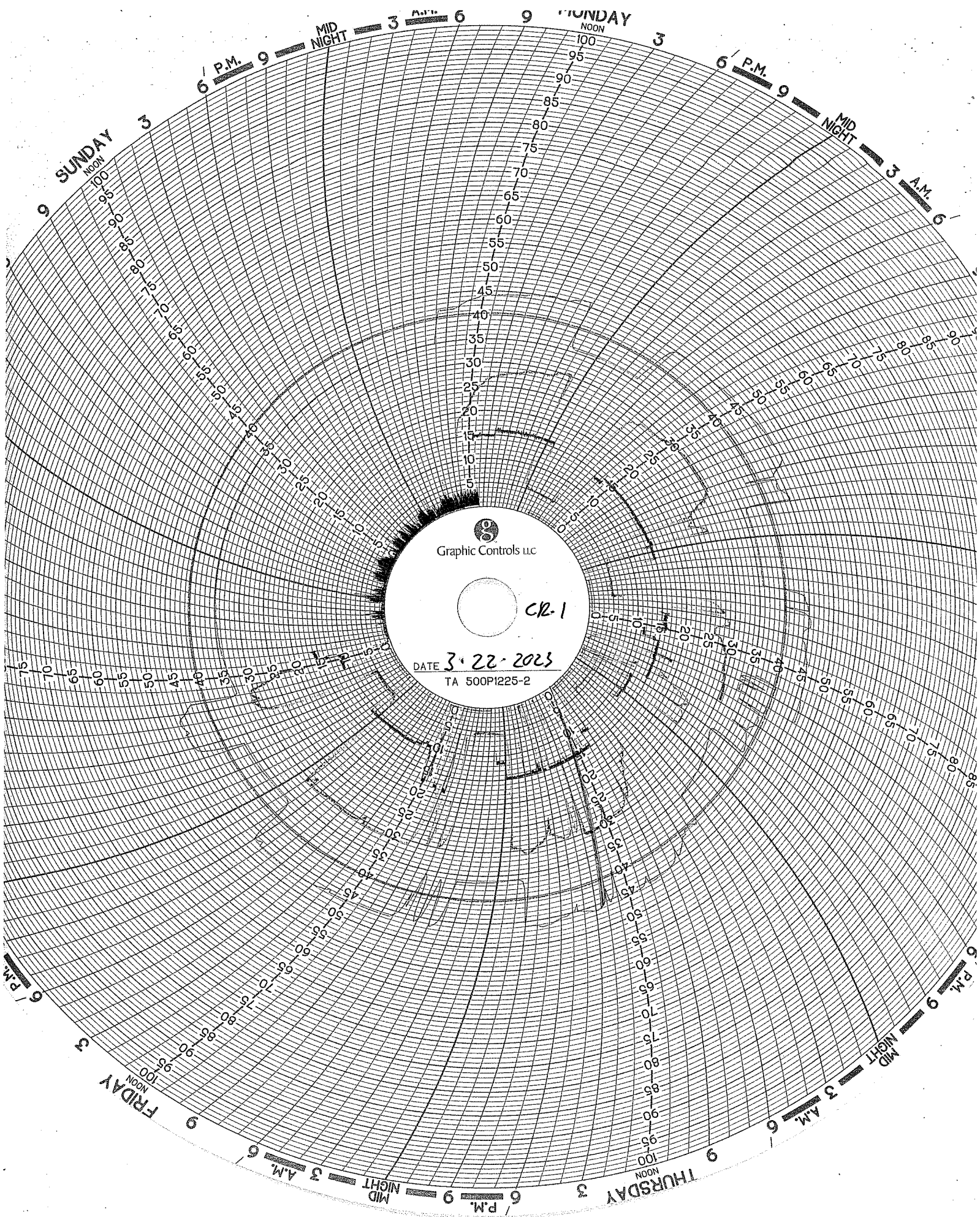
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MID NIGHT

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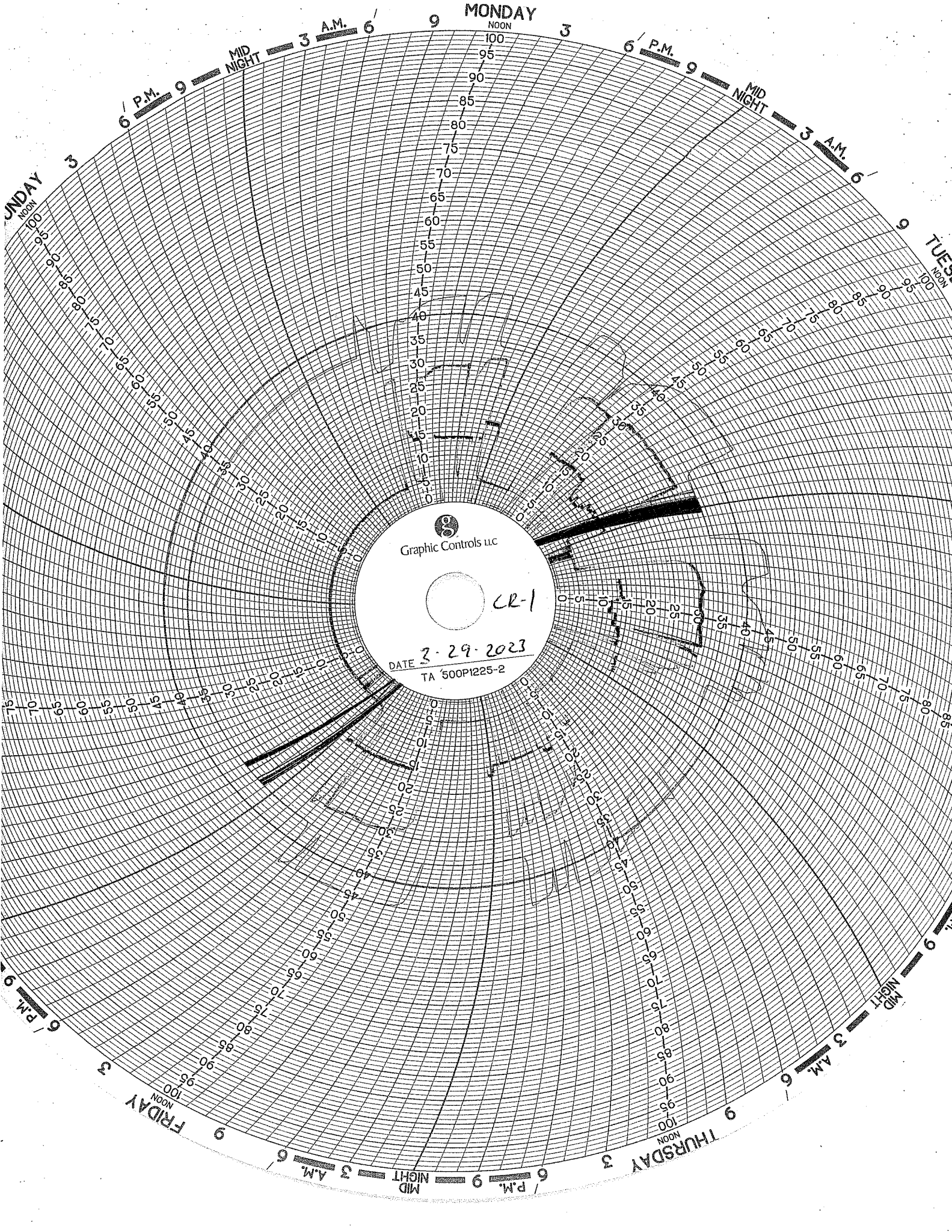
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Graphic Controls LLC

CR-1

DATE 3-22-2023  
TA 500P1225-2

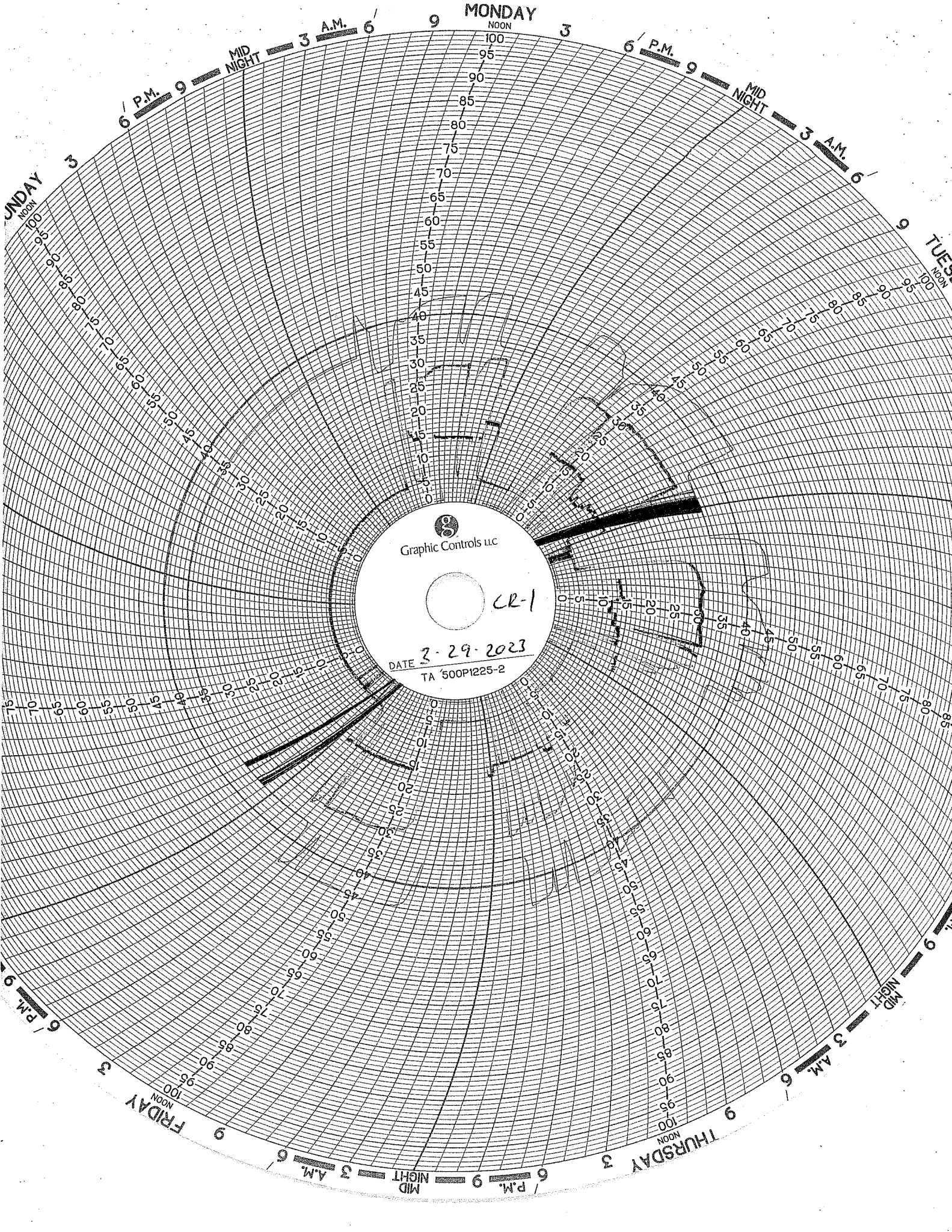


Graphic Controls LLC

CR-1

DATE 3-29-2023

TA 500P1225-2



**WELL 2 DATA**



Injection Well 2, March 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
3/1/2023	178.8	810.4	29.7	29.8	913.8	1317.3	2.0	7.8	0.0	58.1	363.2	969.8
3/2/2023	199.1	945.3	29.8	29.8	1090.6	1404.7	1.6	7.0	0.0	64.3	455.5	924.6
3/3/2023	207.4	949.1	29.7	29.8	1122.1	1425.1	1.9	7.9	0.0	63.5	467.0	940.7
3/4/2023	176.4	241.8	29.7	29.7	1147.3	1177.3	6.9	7.5	0.0	0.0	905.5	1000.8
3/5/2023	153.3	176.8	29.7	29.7	1176.8	1178.0	6.8	7.0	0.0	0.0	1000.2	1023.9
3/6/2023	149.2	940.1	29.7	29.8	1143.8	1435.5	2.2	8.0	0.0	63.6	476.1	1027.5
3/7/2023	188.4	948.6	29.7	29.8	1140.2	1476.4	2.1	7.9	0.0	62.3	496.4	960.9
3/8/2023	184.1	939.7	29.7	29.8	1171.5	1468.8	1.6	7.3	0.0	70.8	475.6	991.6
3/9/2023	198.7	945.2	29.7	29.8	1169.5	1460.9	2.0	7.6	0.0	61.4	489.7	977.0
3/10/2023	217.8	943.5	29.7	29.8	1160.9	1456.4	1.9	7.5	0.0	68.0	480.0	954.5
3/11/2023	208.2	938.5	29.7	29.8	1157.6	1419.8	1.9	7.8	0.0	66.0	480.8	963.7
3/12/2023	165.3	208.6	29.6	29.6	1171.7	1175.8	5.8	5.8	0.0	0.0	963.3	1009.2
3/13/2023	150.1	867.2	29.6	29.6	1130.0	1401.0	2.1	7.2	0.0	66.4	531.1	1015.5
3/14/2023	3.8	937.7	29.5	29.6	1091.9	1388.7	1.4	7.2	0.0	85.6	433.2	1100.4
3/15/2023	100.0	859.0	29.6	29.7	1065.0	1349.7	1.4	6.2	0.0	157.4	447.9	1027.6
3/16/2023	138.5	764.6	29.6	29.8	966.1	1325.2	1.6	7.1	0.0	104.9	388.9	1026.1
3/17/2023	96.1	622.0	29.8	29.8	1023.2	1344.3	1.5	6.1	0.0	79.4	610.1	1020.5
3/18/2023	134.7	189.2	29.6	29.8	1104.3	1143.3	3.3	3.4	0.0	0.0	915.3	1008.4
3/19/2023	120.7	135.1	29.6	29.6	1142.9	1145.7	3.3	3.4	0.0	0.0	1008.0	1024.6
3/20/2023	118.8	798.3	29.6	29.9	1083.7	1318.2	1.7	7.4	0.0	82.6	513.2	1026.3
3/21/2023	176.8	872.5	29.8	29.9	1043.1	1340.1	1.5	7.6	0.0	70.7	465.1	953.4
3/22/2023	108.0	736.9	29.8	29.9	989.4	1322.1	1.3	7.5	0.0	63.1	467.5	945.5
3/23/2023	170.0	808.4	29.9	29.9	1031.0	1366.4	1.7	7.2	0.0	62.5	551.6	917.2
3/24/2023	216.2	907.6	29.8	29.9	1112.2	1440.1	2.0	7.5	0.0	76.0	522.2	931.9
3/25/2023	47.6	882.7	29.8	29.9	1088.4	1397.7	1.3	7.4	0.0	72.0	517.8	1068.2
3/26/2023	11.8	47.9	29.7	29.8	1113.4	1116.1	1.7	2.4	0.0	-0.4	1067.7	1101.8
3/27/2023	4.9	797.8	29.7	29.8	1112.2	1385.9	1.4	7.2	0.0	71.3	576.1	1107.5
3/28/2023	186.7	839.6	29.7	29.9	1150.3	1440.1	1.7	7.2	0.0	71.7	570.5	964.0
3/29/2023	202.1	824.5	29.8	29.9	1142.2	1420.6	1.3	7.3	0.0	71.2	594.3	962.5
3/30/2023	185.5	822.2	29.7	29.8	1110.8	1404.7	2.5	8.4	0.0	74.7	577.0	957.8
3/31/2023	186.8	832.4	29.7	29.9	1151.0	1394.9	4.4	8.4	0.0	71.8	564.2	964.2

## Circle Chart Index

Republic Industrial Energy Solutions, 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

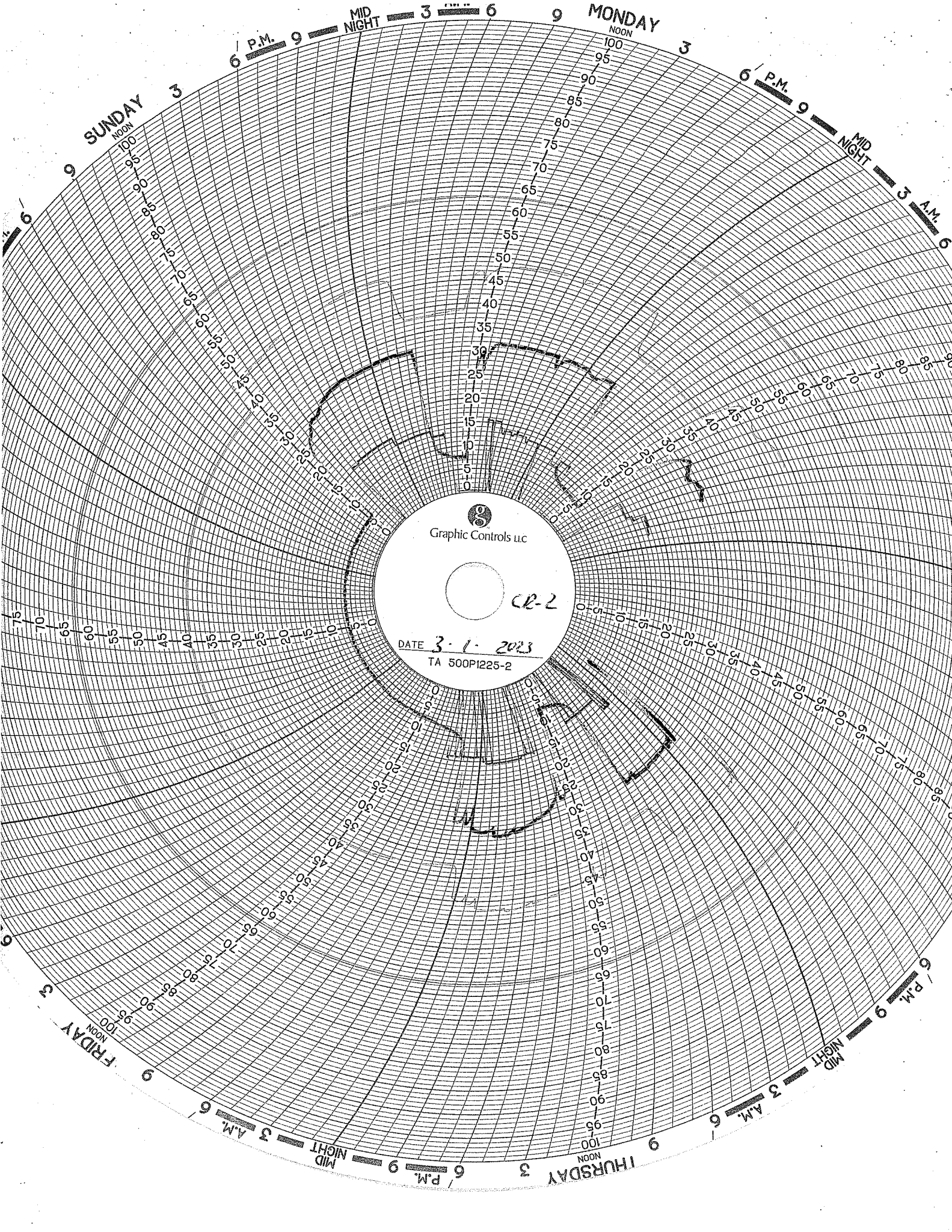
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

channel *tm*

Black Pen — Temperature (chart value x 0)



Graphic Controls LLC

CB-2

DATE 3-1-2023  
TA 500P1225-2

SUNDAY  
NOON

MONDAY  
NOON

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6 P.M.

MID NIGHT

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6 P.M.

MID NIGHT

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FRIDAY  
NOON

THURSDAY  
NOON

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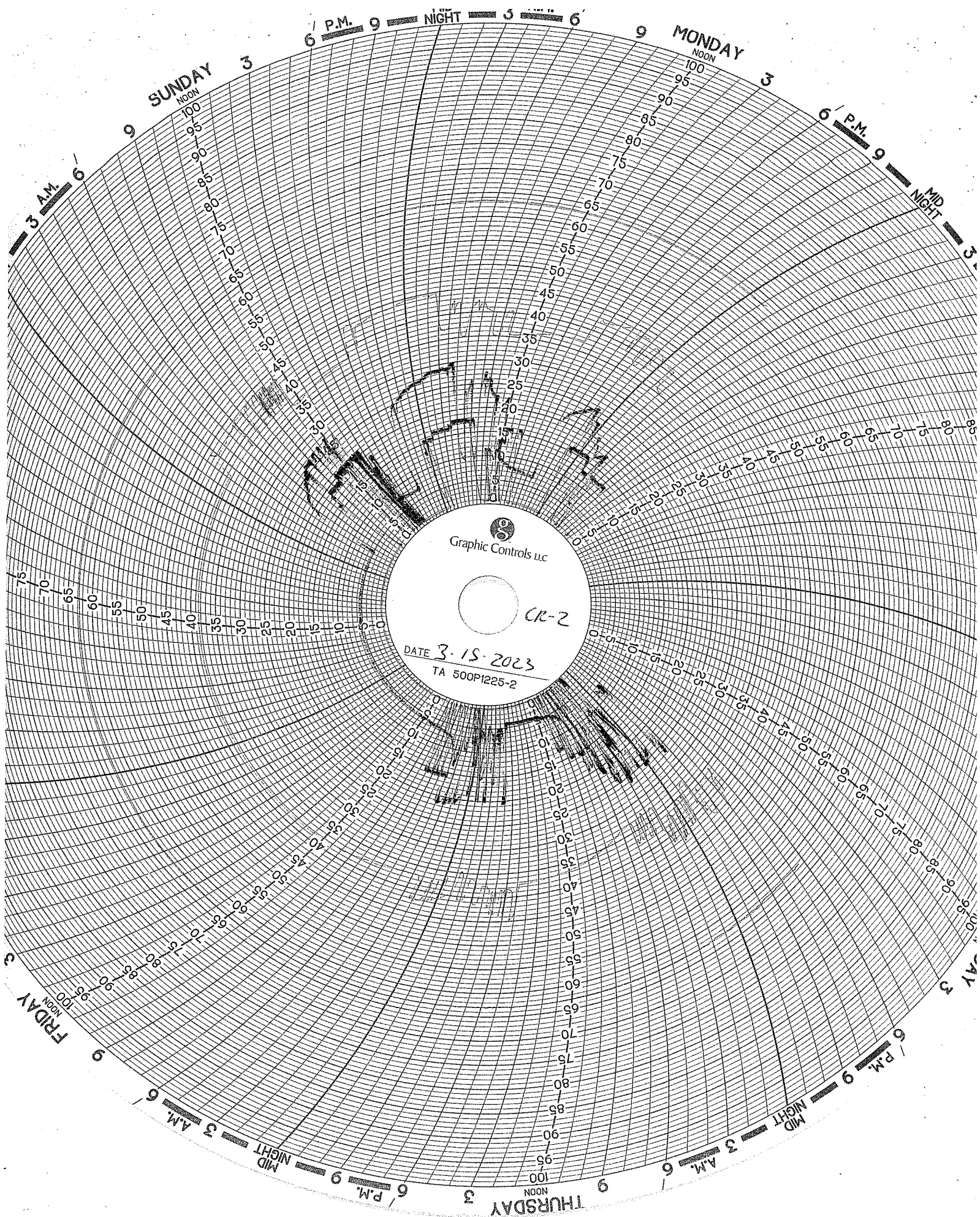
MID NIGHT

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6 P.M. 9 NIGHT 3 6

MONDAY  
NOON  
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SUNDAY  
NOON  
100

3 A.M. 6

6 P.M. 9

MID NIGHT 3

Graphic Controls LLC

CR-2

DATE 3-15-2023  
TA 500P1225-2

FRIDAY  
NOON  
100

3 A.M. 6

MID NIGHT 3

6 P.M. 9

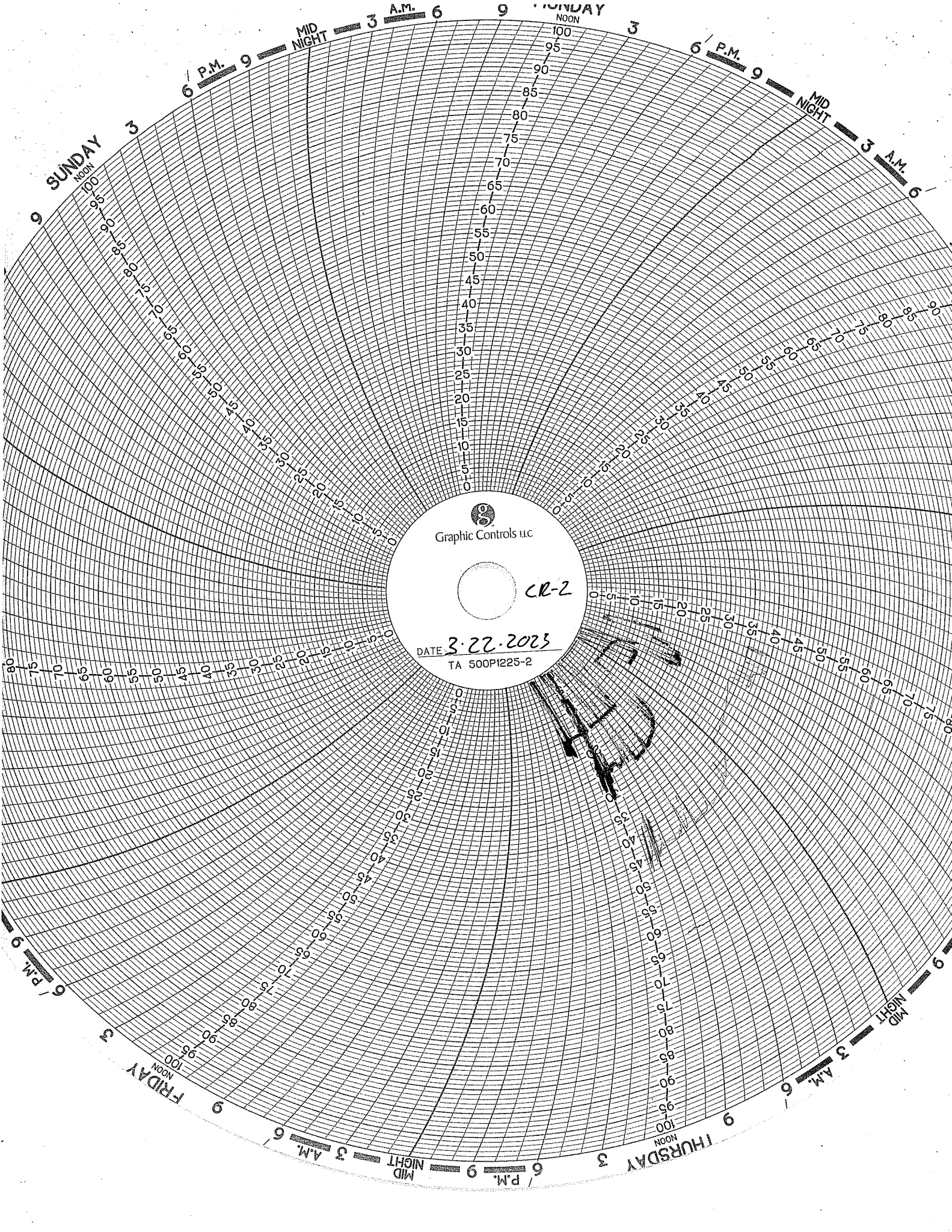
THURSDAY  
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3 A.M. 6

MID NIGHT 3

6 P.M. 9

MID NIGHT 3

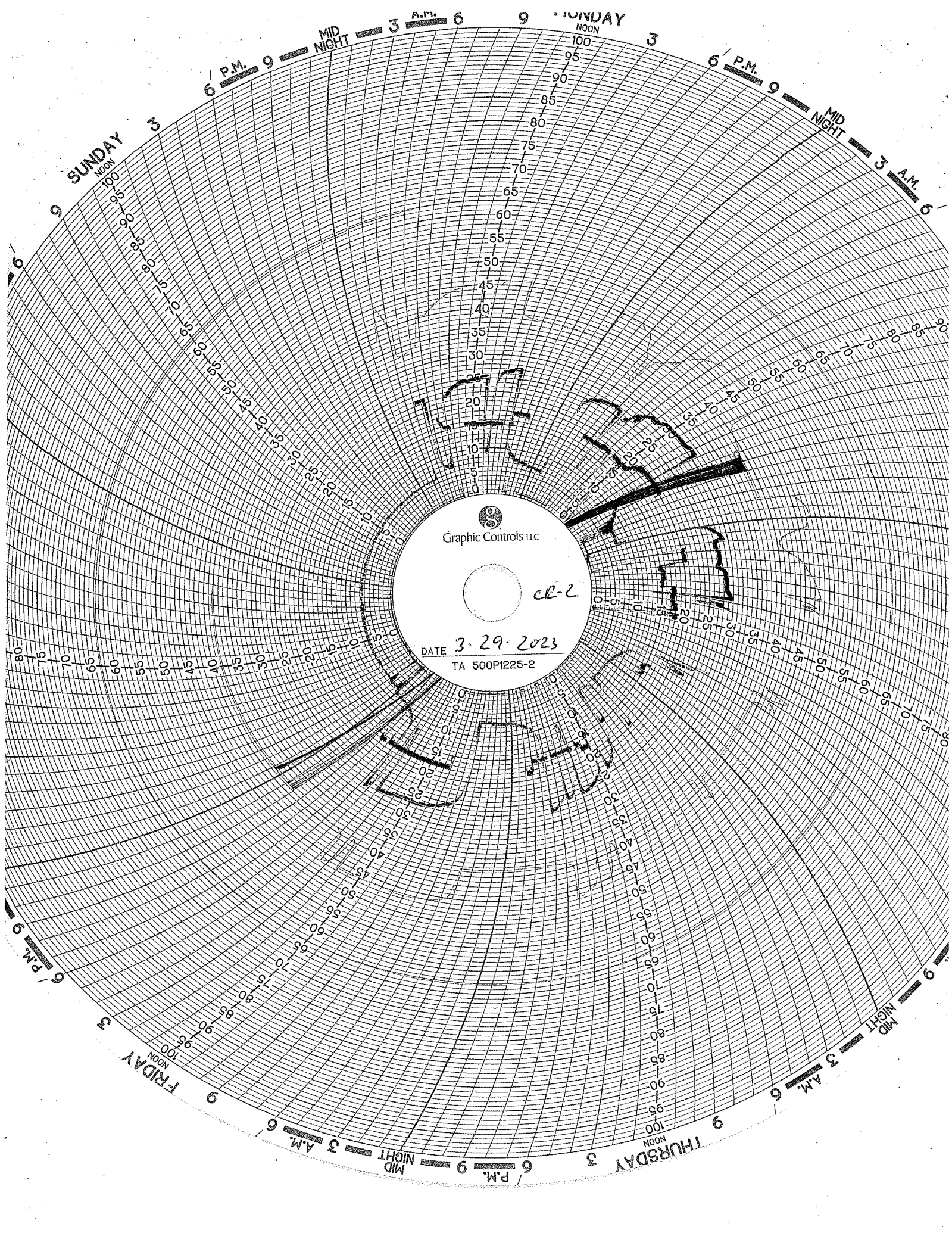


Graphic Controls LLC

CR-2

DATE 3-22-2023  
TA 500P1225-2

Handwritten markings and smudges on the right side of the graph, including a large '4' and some illegible scribbles.



Graphic Controls uc

cb-2

DATE 3-29-2023

TA 500P1225-2

## Circle Chart Index

Republic Industrial Energy Solutions, 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

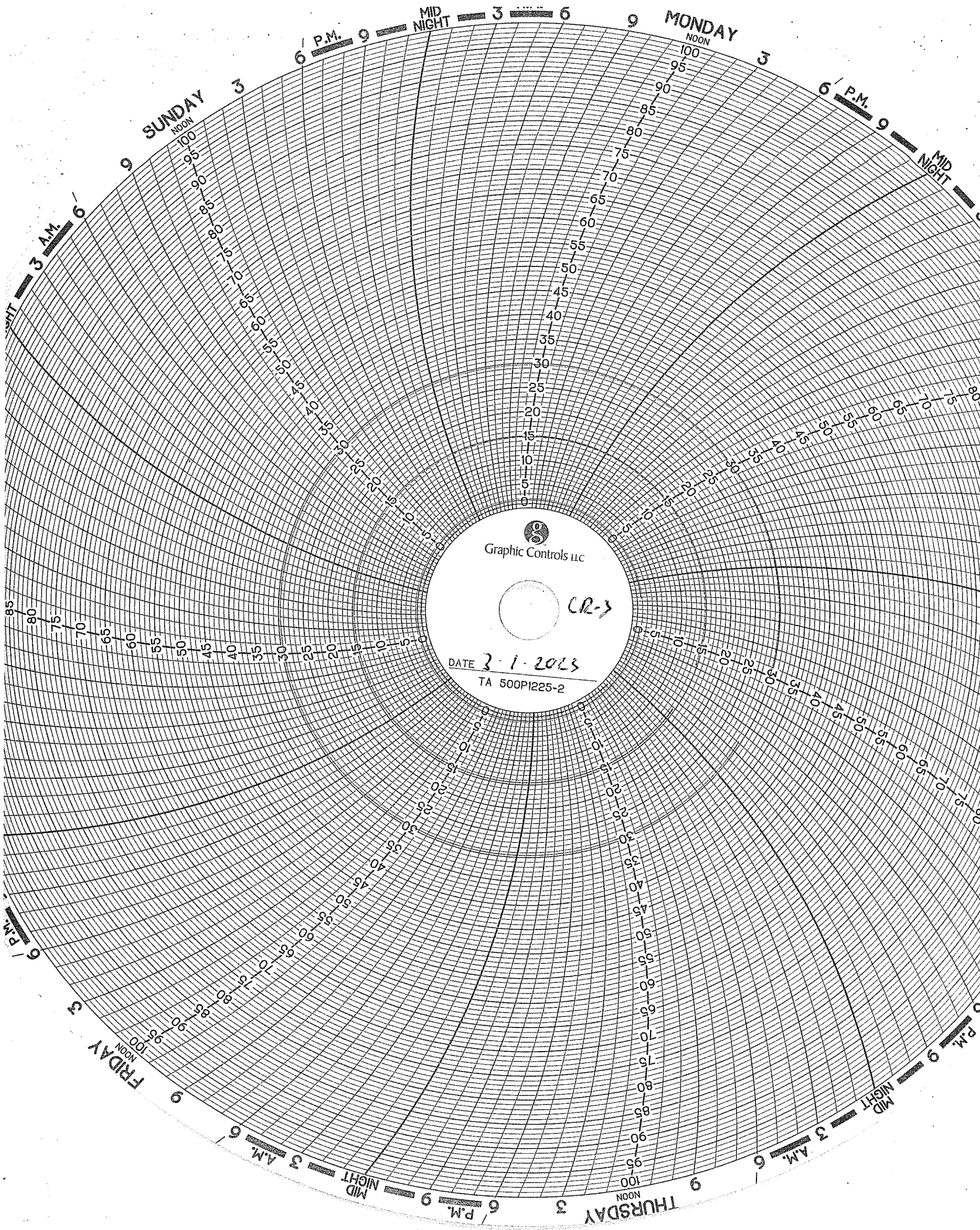
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

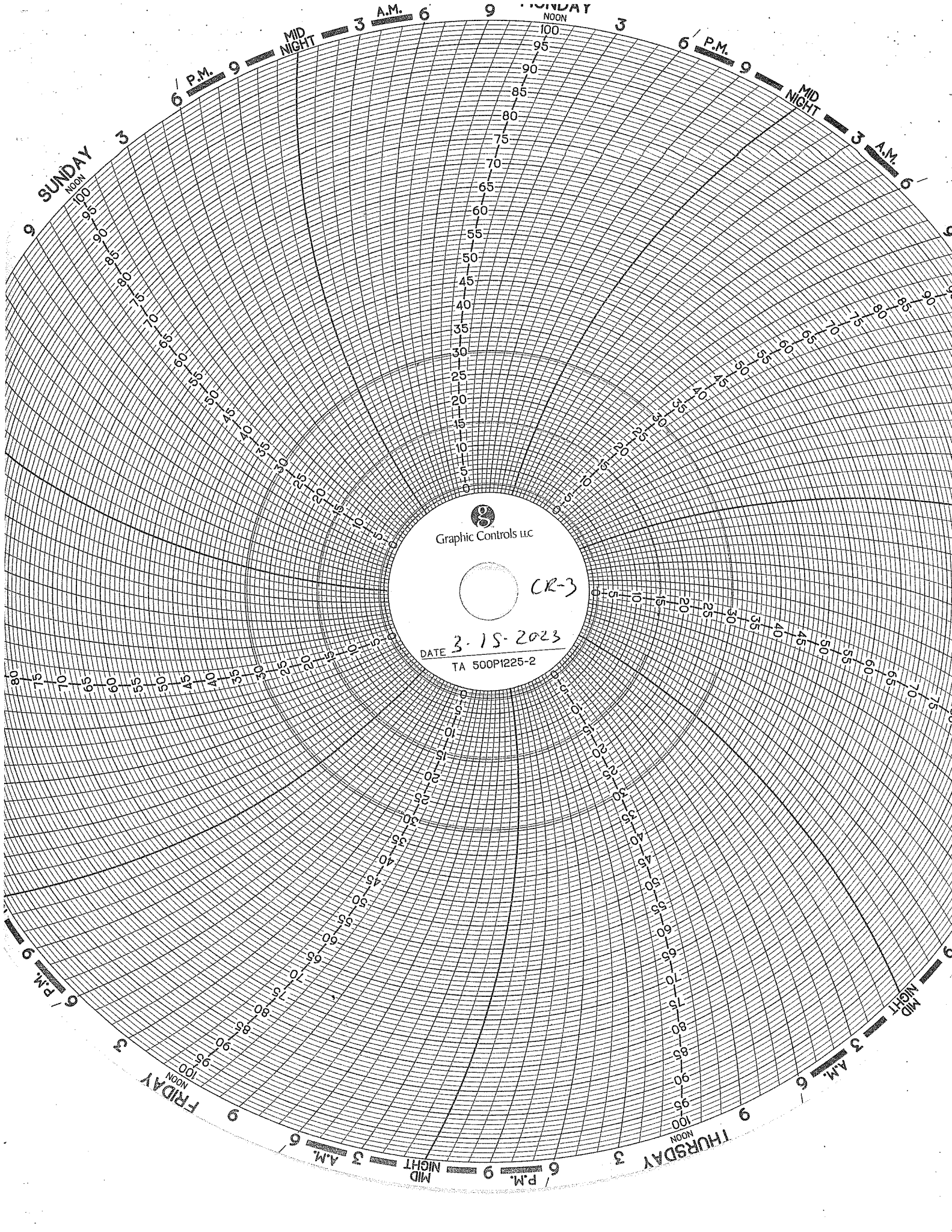
channel *tm*

Black Pen — Temperature (chart value x 0)



Graphic Controls LLC  
CR-3  
DATE 3-1-2023  
TA 500PI225-2





Graphic Controls LLC

CR-3

DATE 3-15-2023  
TA 500PI225-2

SUNDAY  
NOON

MONDAY  
NOON

6 P.M.

MID NIGHT

3 A.M.

6 P.M.

MID NIGHT

3 A.M.

FRIDAY  
NOON

THURSDAY  
NOON

6 P.M.

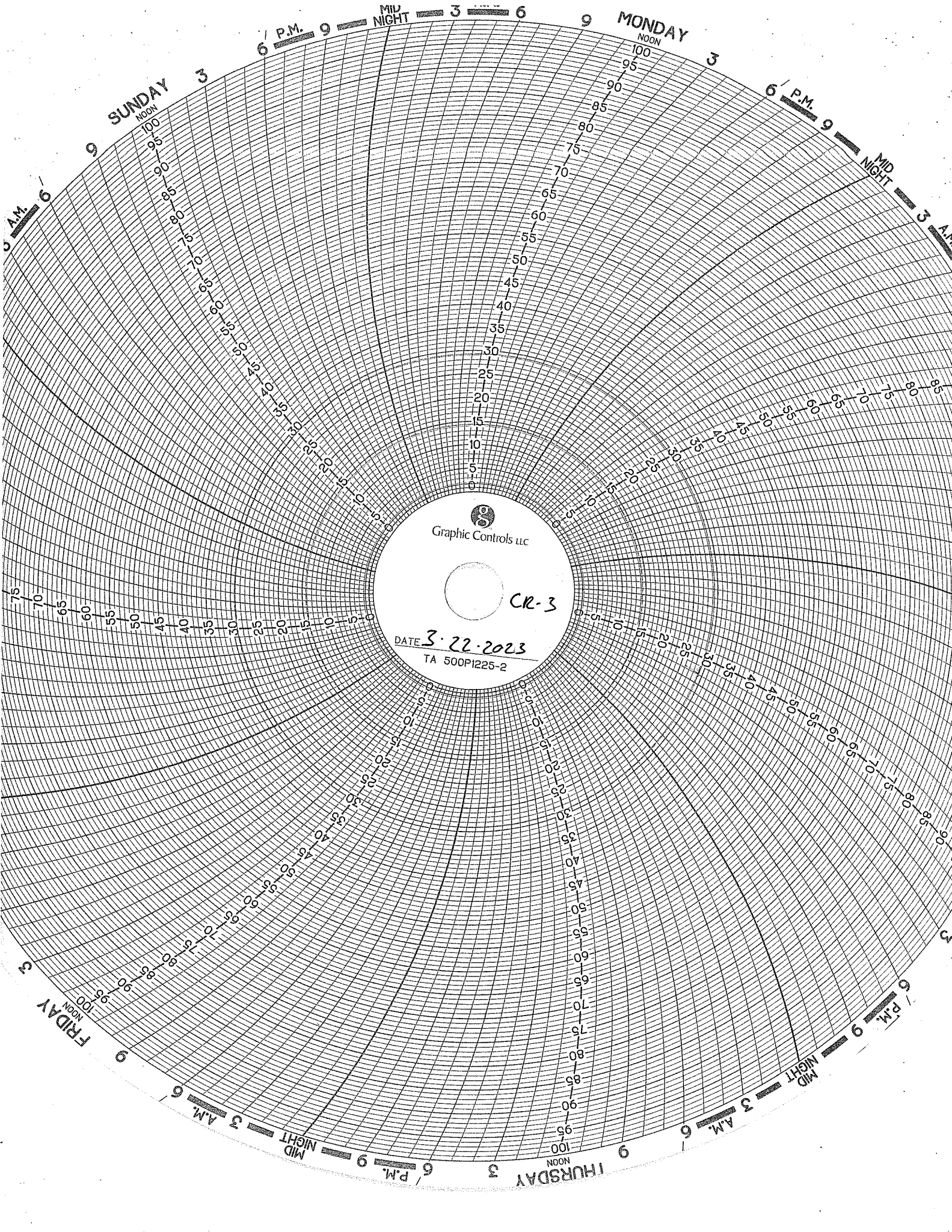
MID NIGHT

3 A.M.

6 P.M.

MID NIGHT

3 A.M.



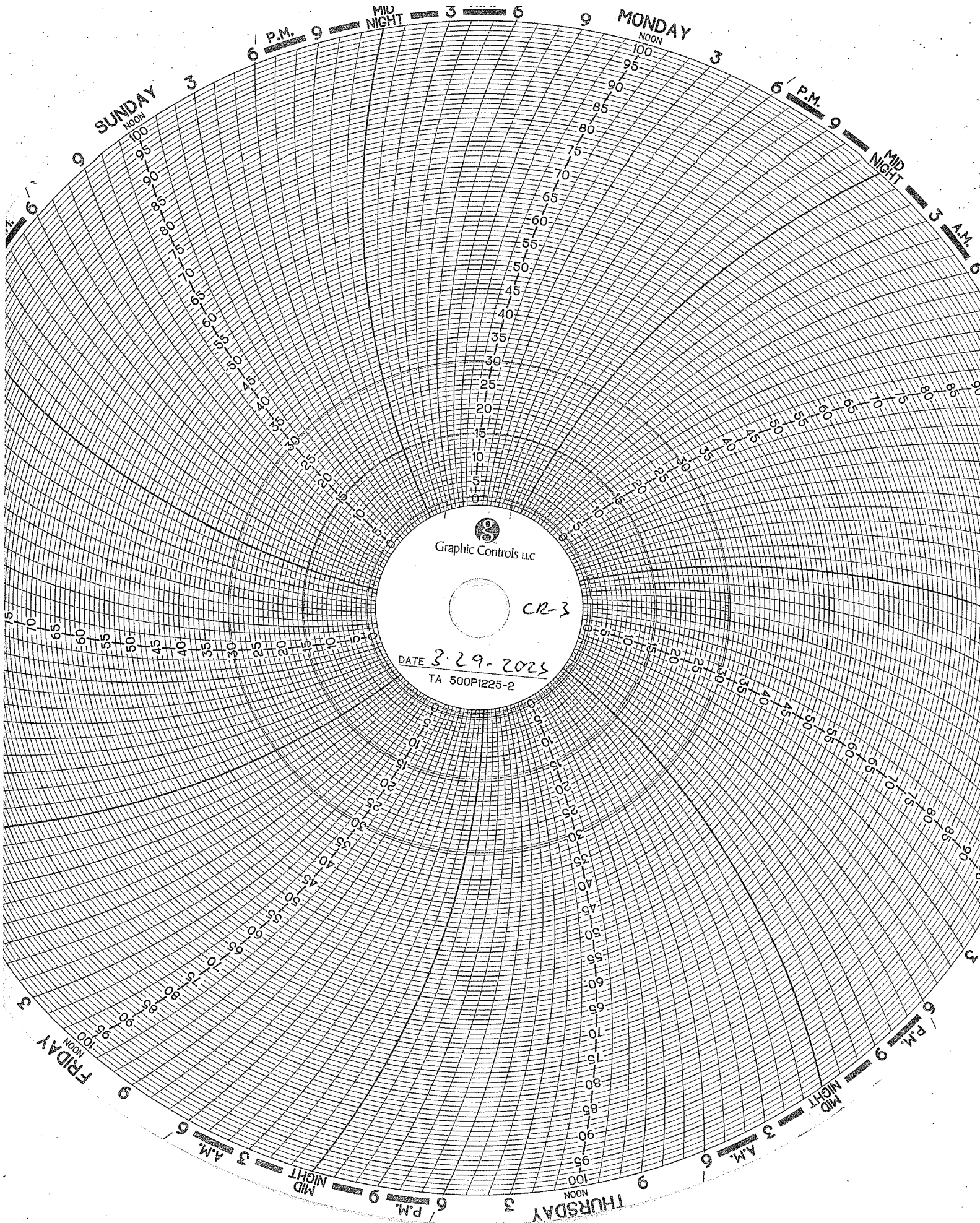
Graphic Controls LLC

CR-3

DATE 3-22-2023

TA 500P1225-2





Graphic Controls LLC

CR-3

DATE 3-29-2025  
TA 500P1225-2

## **CORROSION MONITORING**

**CORROSION MONITORING PLAN  
COUPON SUMMARY**

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Redbox)	
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 g	7.196 g	
7/11/2014	13.323 g	10.304 g	7.196 g	
8/12/2014	13.328 g	10.045 g	7.182 g	
9/17/2014	13.321 g	9.997 g	7.090 g	
10/30/2014	13.321 g	9.387 g	7.075 g	
11/21/2014	13.320 g	9.386 g	7.069 g	
12/19/2014	13.321 g	9.315 g	7.084 g	
1/12/2015	13.321 g	9.289 g	7.063 g	
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	New stainless steel coupon
12/17/2015	13.334 g	8.933 g	6.791 g	
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	
5/31/2016	13.334 g	6.084 g	6.784 g	
6/30/2016	13.328 g	10.942 g	6.793 g	
8/3/2016	13.326 g	10.529 g	6.743 g	
8/29/2016	13.325 g	10.020 g	6.723 g	
10/27/2016	13.325 g	8.765 g	6.708 g	
11/29/2016	13.327 g	8.571 g	6.740 g	
12/12/2016	13.323 g	8.223 g	6.717 g	
1/3/2017	13.325 g	8.059 g	6.712 g	
2/28/2017	13.324 g	7.634 g	6.727 g	
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
2/15/2023	13.274	9.13	15.728
3/17/2023	13.28	9.138	15.779

## **COOROSION MONITORING COUPONS VISUAL DESCRIPTION**

### **March 2023**

#### **Fiberglass Coupon**

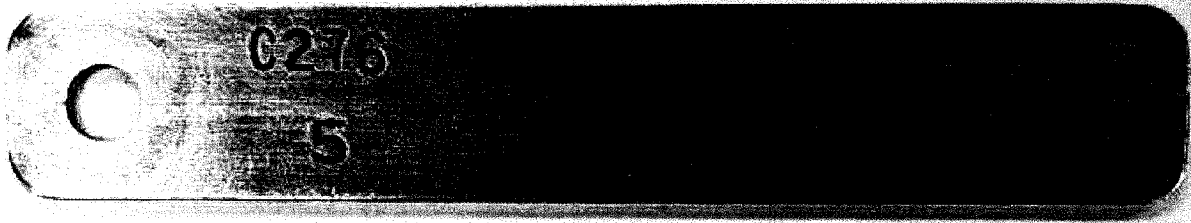
The coupon is black in color with a semi-smooth texture on both sides. Its cut edges appear sanded. The coupon is free of cracks, pitting, swelling, blemishes, and corrosion. There is no obvious effect on this coupon since last month. The coupon has apparently been dyed black by received waste streams.

#### **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**

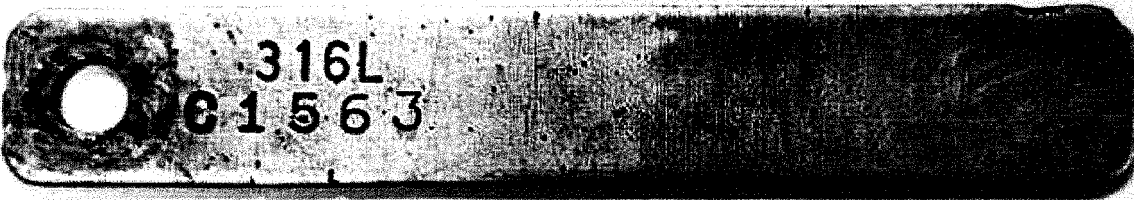
This coupon is identified as C1563/316L. The coupon has slight pitting visible and loses mass over time. There has been significant pumping on the wells and significant exposure to hazardous waste since October 2018.



**C276 / 5**

Weight: 13.280

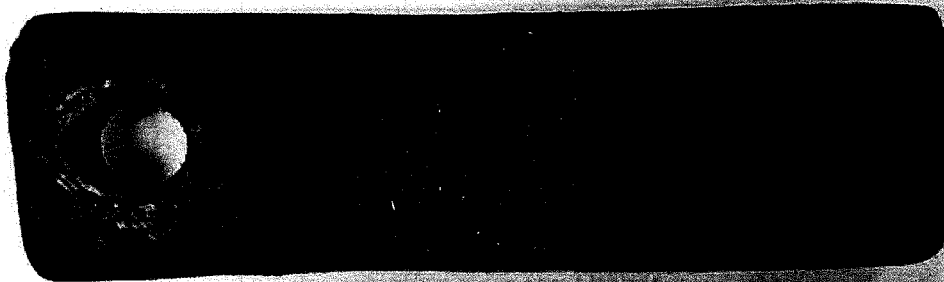
Date: 03/17/2023



**316L / C1563**

Weight: 9.137

Date: 03/17/2023



**Fiberglass**

Weight: 15.779

Date: 03/17/2023

# 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*



\*Certificate Numbers 255.01 & 255.02

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

**ISO 9001:2008**  
Registered

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



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.

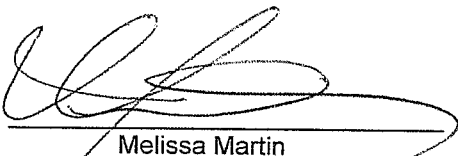
**BARCOL HARDNESS ASTM D 2583-13a**  
Instant Reading

**Results**

Barcol Hardness, Instant

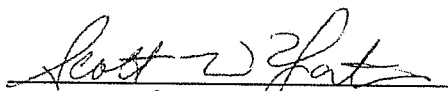
96

Prepared By:

  
Melissa Martin  
Sr. Project Technician

tc

Approved By:

  
Scott W. Yates  
Plastics Testing Assistant Manager

December 12, 2016

**TEST REPORT**

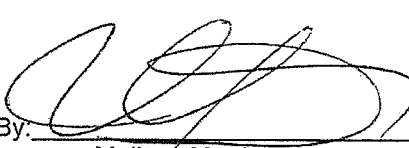
**PN 132662**  
PO

**PLASTICS TESTING DEPARTMENT**

Prepared For:

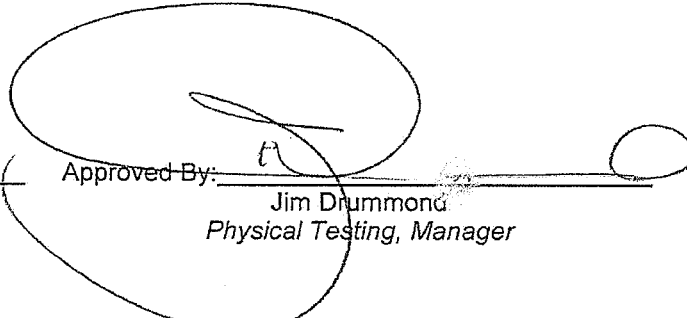
John Frost  
Environmental Geo-Technologies, LLC  
28470 Citrin Drive  
Romulus, MI 48174

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

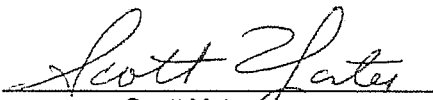
Prepared By:



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.\**



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



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December 13, 2017

John Frost  
Environmental Geo-Technologies, LLC

Page 2 of 2  
PN 139140

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

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

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

**Results**

Barcol Hardness, Instant

96

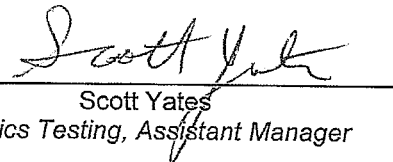
Prepared By:



Melissa Martin  
Sr Project Technician

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:

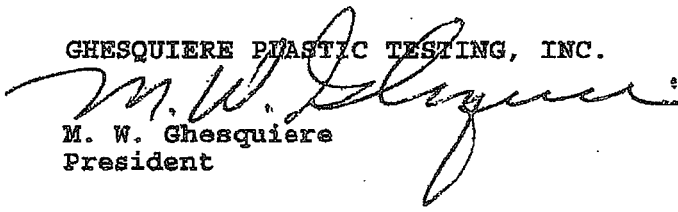
The following determination was made based upon the above test:

### BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHESQUIERE PLASTIC TESTING, INC.

  
M. W. Ghesquiere  
President

MWG/kni

# Ghesquiere Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

### WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

### DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

### WORK PERFORMED:

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

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

### RESULTS:

The following determination was made based upon the above test:

### BARCOL HARDNESS

#### Hardness

Specimen 1: 90

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

Ghesquiere Plastic Testing, Inc.

  
M. W. Ghesquiere  
President

MWG/dm



# Ghesquiere Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

### WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

### DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

### WORK PERFORMED:

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

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

### RESULTS:

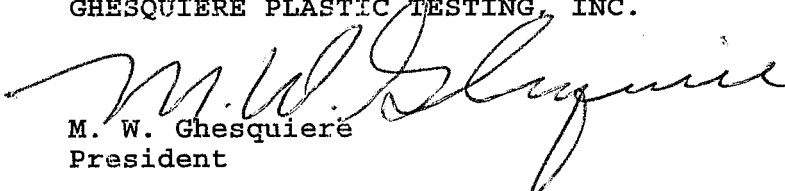
The following determination was made based upon the above test:

#### BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.

  
M. W. Ghesquiere  
President

MWG/dm

October 2, 2014

**• TEST REPORT •**

**PN 118325**


*PO Attn: John Frost*

**PLASTICS TESTING DEPARTMENT**

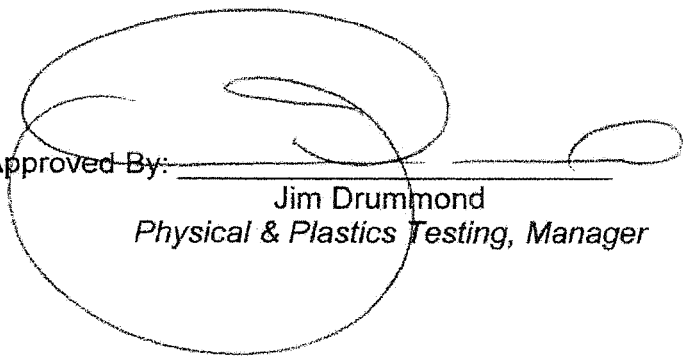
Prepared For:

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

Prepared By:

  
Melissa Martin  
*Sr. Project Technician*

Approved By:

  
Jim Drummond  
*Physical & Plastics Testing, Manager*



\*Certificate numbers 255.01 & 255.02

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



Testing. Development. Problem Solving.

October 2, 2014

John Frost  
Environmental Geo-Technologies, LLC

Page 2 of 2  
PN118325

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

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


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

**Results**

Barcol Hardness, Instant

97

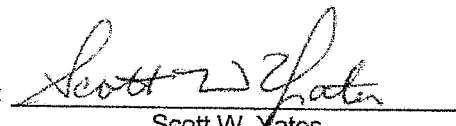
Prepared By:



Melissa Martin  
Sr. Project Technician

sf

Approved By:



Scott W. Yates  
Plastics Testing Assistant Manager

www.ardl.com

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

**BARCOL HARDNESS REPORT**

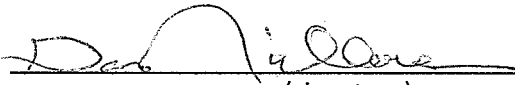
**Customer:** Republic Industrial and Energy Solutions, LLC

**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
	<b>Overall Average:</b>			60

**Tested By:**   
(signature)

Gary Nicholson                      **Date:** 01/12/2021  
(print or type name)

**BARCOL HARDNESS REPORT**

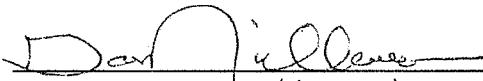
**Customer:** Republic Industrial and Energy Solutions, LLC

**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**

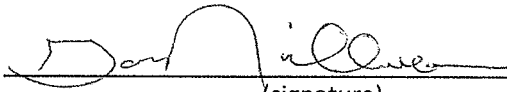
**Customer:** Republic Industrial and Energy Solutions

**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
	<b>Overall Average:</b>			55

**Tested By:**  \_\_\_\_\_  
(signature)

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

## **MAINTENANCE**

**UIC Monthly Maintenance Log**

3/13/2023	Well 1&2	Installed Hastelloy well piping
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## **INJECTION FINGERPRINTS**

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 31 / 23
Receiving ID#	I 03312306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:34
Time out	
Received by	A. Warlick
Sampled by	A. Warlick

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	8.11
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61°
Conductivity	8.84
% Solids	.233
Turbidity	Yes No
Color	<del>233</del>
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warlick

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 31 / 23
Receiving ID#	IOS 31 2305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	A. Work
Sampled by	A. Work

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	7.1
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61°
Conductivity	20.1
% Solids	.442
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Work

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 31 / 23
Receiving ID#	I0331 2304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:17
Time out	
Received by	A. Warlick
Sampled by	J. For

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140
pH (S.U.)	6.89
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63°
Conductivity	18.26
% Solids	.531
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warlick

.853  
u.629  
3.816

RECEIVING & APPROVAL FORM

SST-1

RECEIVING INFORMATION	
Date	3/31/23
Receiving ID#	I03312303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:31
Time out	
Received by	A. Worley
Sampled by	Paul Banoff

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7 1400
pH (S.U.)	7.00
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66°
Conductivity	18.21
% Solids	.734
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 31 / 23
Receiving ID#	703312302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:30
Time out	
Received by	A. Ward
Sampled by	N. Escobar

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	5.96
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.001
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67°
Conductivity	25.8
% Solids	.713
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Ward

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 31 / 23
Receiving ID#	I03312301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:25
Time out	
Received by	A. Worley
Sampled by	Dalton M.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7 1400
pH (S.U.)	7.26
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67 <sup>o</sup>
Conductivity	25.6
% Solids	.761
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 30 / 23
Receiving ID#	I03302305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:30
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.97
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.9
Conductivity	20.04 <i>mf</i>
% Solids	1.06
Turbidity	Yes No
Color	
TSS (%)	30.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 30 / 23
Receiving ID#	203302304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:00
Time out	
Received by	A. Warlick
Sampled by	A. Warlick

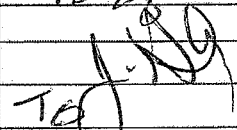
LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	5.9
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	6
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	19.49
% Solids	.877
Turbidity	Yes No
Color	
TSS (%)	LO.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warlick

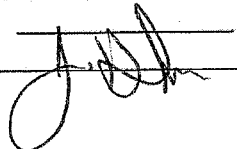
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 30 / 23
Receiving ID#	Z03 30 23 03
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:15
Time out	
Received by	<i>J. Worley</i>
Sampled by	<i>J. Worley</i>

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	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.6
Conductivity	19.16 mS
% Solids	1.01
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Worley</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 30 / 23
Receiving ID#	J0330 2302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:20
Time out	
Received by	
Sampled by	TG

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.6
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.0
Conductivity	116.41 ✓
% Solids	0.87
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 30 / 23
Receiving ID#	I03302304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:15
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.)	3.40
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	25.6
% Solids	.53 <sup>00</sup>
Turbidity	Yes No
Color	
TSS (%)	2 <sup>00</sup>
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N. Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 29 / 23
Receiving ID#	I03292306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:10
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	4.59
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.4
Conductivity	21.5
% Solids	0.44
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 29 / 23
Receiving ID#	Z03292305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:18
Time out	
Received by	A. Warby
Sampled by	A. Warby

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	5.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	18.23
% Solids	6.611
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warby

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 29 / 23
Receiving ID#	<del>071-103292305</del>
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:45
Time out	
Received by	J. Ah
Sampled by	W. J. Anderson

103292304

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.30
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.6
Conductivity	16.18 mS
% Solids	0.78
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. Ah

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 29 / 23
Receiving ID#	703292303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:30
Time out	
Received by	<i>J. N. H.</i>
Sampled by	<i>J. N. H.</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.77
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.9
Conductivity	22.2 mS
% Solids	1.19
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. N. H.</i>



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 29 / 23
Receiving ID#	703292909
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:00
Time out	
Received by	<i>J. J. [Signature]</i>
Sampled by	<i>M. [Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	5140
pH (S.U.)	1.90
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.3
Conductivity	28.9 mS
% Solids	1.80
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. J. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3/29/23
Receiving ID#	I03292301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:06
Time out	
Received by	<i>J. [Signature]</i>
Sampled by	T.G. <i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.10
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.9
Conductivity	234.5
% Solids	1.43
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 28 / 23
Receiving ID#	IOS 28 23 07
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2000
Time out	
Received by	A. Worley
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.)	2.41
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59°
Conductivity	5.51
% Solids	.136
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

4.731  
.800  
3.931

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 28 / 23
Receiving ID#	Z03282306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1748
Time out	
Received by	A. Warley
Sampled by	A. Warley

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	5.92
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64°
Conductivity	5.53
% Solids	.051
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 28 / 23
Receiving ID#	I03282305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1507
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.)	5.95
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	4) <del>24.6</del> 62.6
Conductivity	25.2ms
% Solids	1.25
Turbidity	Yes No
Color	
TSS (%)	LO.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 27 / 23
Receiving ID#	503222701
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:50
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.)	6.00
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.6
Conductivity	22.7ms
% Solids	1.37
Turbidity	Yes No
Color	
TSS (%)	LOA
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 28 / 23
Receiving ID#	I03282303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:30
Time out	
Received by	<i>J. J. H.</i>
Sampled by	<i>Deaton M.</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.31
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.8
Conductivity	212.0 uS
% Solids	0.38
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. J. H.</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 28 / 23
Receiving ID#	I 03282302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:48
Time out	
Received by	<i>A. [Signature]</i>
Sampled by	DB

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.56
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.8
Conductivity	20.4 $\mu$ s
% Solids	1.16
Turbidity	Yes No
Color	
TSS (%)	< 6
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. [Signature]</i>



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 27 / 23
Receiving ID#	<del>703272301</del> (7) 703282301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:26
Time out	
Received by	<i>R. Escobar</i>
Sampled by	<i>R. Escobar</i>

703282301

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	1.100
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58°
Conductivity	37.5
% Solids	.88%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>R. Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3/27/23
Receiving ID#	705212306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:00
Time out	
Received by	A. Warh
Sampled by	A. Warh

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	6.76
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60°
Conductivity	22.9
% Solids	.311
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warh

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 27 / 23
Receiving ID#	203272305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1930
Time out	
Received by	A. Worley
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.)	5.76
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58°
Conductivity	27.5
% Solids	.237
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3/27/23
Receiving ID#	203272304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1736
Time out	
Received by	A. Workup
Sampled by	A. Workup

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140 <sup>o</sup>
pH (S.U.)	6.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60 <sup>o</sup>
Conductivity	20.7
% Solids	.533
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	1
Lab Signature/Initials	A. Workup

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 27 / 23
Receiving ID#	03222203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:35
Time out	
Received by	<i>J. D. [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.)	6.26
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.2
Conductivity	19.36
% Solids	0.86
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. [Signature]</i>


RECEIVING & APPROVAL FORM

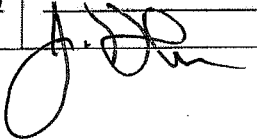
RECEIVING INFORMATION	
Date	3 / 27 / 23
Receiving ID#	103272302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:31
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

SST-1

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.60
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.1
Conductivity	19.44 us
% Solids	1.36
Turbidity	Yes No
Color	
TSS (%)	2.0
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3/27/23
Receiving ID#	I03272301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:55
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.)	1.27
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.2
Conductivity	74.8 μS
% Solids	5.37
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 25 / 23
Receiving ID#	I03252302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:34
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.)	1.21
Cyanides? (mg/L)	>30
Sulfides? (ppm)?	>206
Specific Gravity	1.09
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65°
Conductivity	140 mS
% Solids	5.8%
Turbidity	Yes No
Color	Clear
TSS (%)	0%
Radiation Screen (as needed)	
Lab Signature/Initials	



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 25 / 23
Receiving ID#	20325-2301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2:10
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.)	6.06
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.02
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65°F
Conductivity	38.9 μS
% Solids	.5%
Turbidity	Yes No
Color	Brown
TSS (%)	.25%
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 24 / 23
Receiving ID#	Z032423 06
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	mid 8 2032
Time out	
Received by	A. Work
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.)	7.05
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60°
Conductivity	23.0
% Solids	.631
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Work

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03/24/23
Receiving ID#	203242305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1812
Time out	
Received by	M BEIER
Sampled by	M BEIER

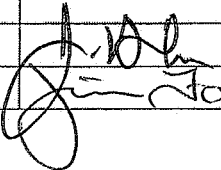
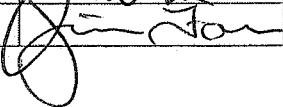
LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140
pH (S.U.)	6.08
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.9
Conductivity	24.6
% Solids	.552
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	M BEIER

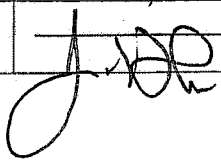
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 24 / 23
Receiving ID#	I03242304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:30
Time out	
Received by	JAD
Sampled by	A.W.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	10.50
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.4
Conductivity	230.0ms
% Solids	1.05
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JAD

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 24 / 23
Receiving ID#	I03242303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:40pm
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.)	6.04
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.6
Conductivity	21.4 mS
% Solids	0.65
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 24 / 23
Receiving ID#	T03242302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:10 AM
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.)	6.22
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.2
Conductivity	249 mS
% Solids	1.0
Turbidity	Yes No
Color	
TSS (%)	1.0
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 24 / 23
Receiving ID#	I03212301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
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.)	2.05
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60°
Conductivity	33
% Solids	2.63%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>R Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 23 / 23
Receiving ID#	IO 2323 07
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2102
Time out	
Received by	A. Wark
Sampled by	A. Wark

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
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)	59°
Conductivity	6.52
% Solids	.531
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Wark



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 23 / 23
Receiving ID#	703232306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1856
Time out	
Received by	A. Worley
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.)	6.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59°
Conductivity	12.93
% Solids	.96
Turbidity	Yes No
Color	
TSS (%)	LO.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3/23/23
Receiving ID#	IOS 2323 OS
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1618
Time out	
Received by	A. Worley
Sampled by	A. Worley

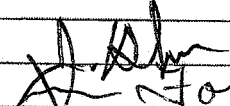
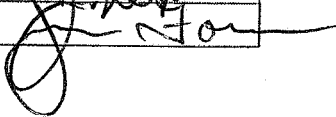
LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	4.3
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60°
Conductivity	24.9
% Solids	.881
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

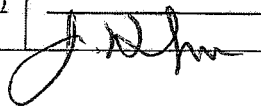
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03/23/23
Receiving ID#	I03232304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:50pm
Time out	
Received by	<i>J. [Signature]</i>
Sampled by	<i>Jim [Signature]</i>

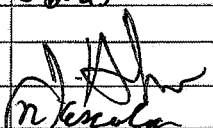
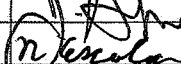
LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.93
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.0
Conductivity	22.0 mS
% Solids	0.84
Turbidity	Yes No
Color	
TSS (%)	
Radiation Screen (as needed)	LOI
Lab Signature/Initials	<i>J. [Signature]</i>

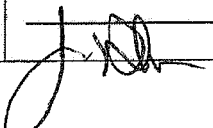
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 23 / 23
Receiving ID#	I032323 03
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:00 AM
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.)	6.15
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.4
Conductivity	228.5
% Solids	0.50
Turbidity	Yes No
Color	
TSS (%)	<10
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 23 / 23
Receiving ID#	T03230302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	08:25
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.)	6.35
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.5
Conductivity	23.8 or 5
% Solids	1.07
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 23 / 23
Receiving ID#	T03232301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:40
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.)	4.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	20.5
% Solids	.98 <sup>0/10</sup>
Turbidity	Yes No
Color	
TSS (%)	1.0 <sup>0/10</sup>
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 22 / 23
Receiving ID#	ZOS 22 2308
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2100
Time out	
Received by	A. Worley
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.)	1.72
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	500
Conductivity	29.6
% Solids	.337
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

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-807  
3.586

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 22 / 23
Receiving ID#	103222304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1753
Time out	
Received by	A. Worley
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.)	5.56
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	490
Conductivity	6.38
% Solids	.113
Turbidity	Yes No
Color	<del>Brown</del>
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3/22/23
Receiving ID#	I03222303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:55
Time out	
Received by	<i>J. A. M.</i>
Sampled by	<i>Dalton M.</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140
pH (S.U.)	4.72
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.08
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.4
Conductivity	24.0
% Solids	1.95
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. A. M.</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 22 / 23
Receiving ID#	103222302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:02
Time out	
Received by	<i>J. D. [Signature]</i>
Sampled by	<i>J. D. [Signature]</i>
LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 214
pH (S.U.)	6.20
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.5
Conductivity	20.4 us
% Solids	1.05
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 22 / 23
Receiving ID#	103222301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:30 AM
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.36
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.1
Conductivity	62.8 us
% Solids	0.65
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 21 / 23
Receiving ID#	IO3 2123 OS
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:30
Time out	
Received by	A. Worley
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.)	1.14
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	0
% Solids	19.12
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 21 / 23
Receiving ID#	T03212304 04
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:30 AM
Time out	
Received by	<i>J. [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.)	5.06
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.9
Conductivity	34.9 $\mu$ S
% Solids	0.62
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 21 / 23
Receiving ID#	I03212303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:00
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.)	5.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.5
Conductivity	30.4 mS
% Solids	0.60
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 21 / 23
Receiving ID#	I03212302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:00 AM
Time out	
Received by	<i>J. D. R.</i>
Sampled by	<i>J. D. R.</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	140
pH (S.U.)	6.14
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.6
Conductivity	27.0 mS
% Solids	0.79
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. R.</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 21 / 23
Receiving ID#	103212301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:40
Time out	
Received by	<i>J. Al</i>
Sampled by	<i>J. Escobar</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.91
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.0
Conductivity	26.8 or 5
% Solids	0.53
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Al</i>



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 20 / 23
Receiving ID#	203 2023 08
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2105
Time out	
Received by	A. Workup
Sampled by	A. Workup

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	7.08
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55°
Conductivity	26.2
% Solids	.477
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Workup

**RECEIVING & APPROVAL FORM**

RECEIVING INFORMATION	
Date	3 / 20 / 23
Receiving ID#	203 202307
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12.00
Time out	
Received by	A. Work
Sampled by	A. Work

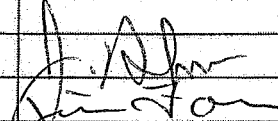
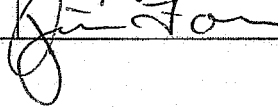
LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	6.43
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56°
Conductivity	25.5
% Solids	.357
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Work

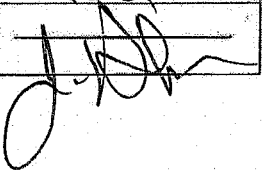
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 20 / 23
Receiving ID#	103 202306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:47
Time out	
Received by	<i>J. DR</i>
Sampled by	<i>A. Warlick</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.70
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.1
Conductivity	32.2 <i>ms</i>
% Solids	1.48
Turbidity	Yes No
Color	
TSS (%)	< 2
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. DR</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 20 / 23
Receiving ID#	I03202305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:50 PM
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 240
pH (S.U.)	6.0
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.2
Conductivity	31.6 mS
% Solids	1.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 20 / 23
Receiving ID#	FO3202304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	11:25 AM
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.)	5.25
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.2
Conductivity	34.1 mS
% Solids	1.06
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 20 / 23
Receiving ID#	I03202303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:40 AM
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.)	4.74
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.9
Conductivity	30.1 us
% Solids	1.41
Turbidity	Yes No
Color	
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 20 / 23
Receiving ID#	I03202302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:40AM
Time out	
Received by	<i>J. Ash</i>
Sampled by	<i>J. Ash</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.20
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.7
Conductivity	320 $\mu$ S
% Solids	1.15
Turbidity	Yes No
Color	
TSS (%)	201
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Ash</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 20 / 23
Receiving ID#	I03202301
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.)	4.58
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54°
Conductivity	24.1
% Solids	1.48 <sup>g/d</sup>
Turbidity	Yes No
Color	
TSS (%)	<0.1%
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N Escobar</i>



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 17 / 23
Receiving ID#	203172303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2140
Time out	
Received by	A. Work
Sampled by	A. Work

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	1.70
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56°
Conductivity	35.0
% Solids	.733
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Work

.838  
.807  
4.261  
3.09

FINGERPRINT FORM

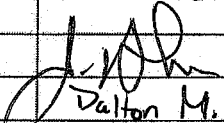
REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

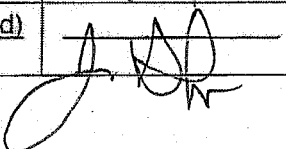
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 17 / 23
Receiving ID#	I03172302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:00
Time out	
Received by	A. Warlick
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.)	1.50
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54°
Conductivity	71.6
% Solids	.898
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warlick

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 17 / 23
Receiving ID#	I03172361
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:28
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.)	1.76
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.09
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.3
Conductivity	74.1 μS
% Solids	2.37
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 16 / 23
Receiving ID#	I03162304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2137
Time out	
Received by	A. Worley
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.)	1.25
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.08
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	4.76
% Solids	1.31
Turbidity	Yes No
Color	Brown
TSS (%)	< 0.1
Radiation Screen (as needed)	<del>Yes</del>
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 16 / 23
Receiving ID#	I03162303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1821
Time out	
Received by	A. W. [Signature]
Sampled by	A. W. [Signature]

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	4.88
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	550
Conductivity	39.5
% Solids	1631
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	1
Lab Signature/Initials	A. W. [Signature]

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 16 / 23
Receiving ID#	70316 2302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1:55
Time out	
Received by	<i>J. Alm</i>
Sampled by	<i>Dalton M.</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	2.18
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	21.7 mS
% Solids	1.17
Turbidity	(Yes) No
Color	.
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Alm</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 16 / 23
Receiving ID#	202162361
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:56
Time out	
Received by	<i>J. Ash</i>
Sampled by	<i>Dalton M.</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.95
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.9
Conductivity	17.60 us
% Solids	1.10
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Ash</i>

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RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 15 / 23
Receiving ID#	203152304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:00
Time out	
Received by	A. Workup
Sampled by	A. Workup

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 1400
pH (S.U.)	1.91
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51°
Conductivity	23.2
% Solids	.161
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	neg
Lab Signature/Initials	A. Workup



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 15 / 23
Receiving ID#	105152303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:49
Time out	
Received by	<i>J. Worley</i>
Sampled by	<i>A. Worley</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.81
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.8
Conductivity	31.4 mS
% Solids	1.60
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Worley</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 15 / 23
Receiving ID#	103452200
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:50
Time out	
Received by	<i>J. Dh</i>
Sampled by	<i>J. Escobar</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.99
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.6
Conductivity	31.0 mS
% Solids	1.79
Turbidity	Yes No
Color	
TSS (%)	26.7
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Dh</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 15 / 23
Receiving ID#	T03152301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
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.)	0.64
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.100
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	0
% Solids	5.21%
Turbidity	Yes No
Color	
TSS (%)	<0.1%
Radiation Screen (as needed)	
Lab Signature/Initials	<i>R Escobar</i>

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FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 14 / 23
Receiving ID#	703142304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:00
Time out	
Received by	A. Warley
Sampled by	A. Warley

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	1.27
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54°
Conductivity	96.3
% Solids	1.97
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 14 / 23
Receiving ID#	F03142303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1732
Time out	
Received by	M. Buser
Sampled by	M. Buser

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.70
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52.7
Conductivity	19.80
% Solids	.94
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	M. Buser

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 14 / 23
Receiving ID#	IO3142362
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:50
Time out	
Received by	<i>JAD</i>
Sampled by	<i>Delton M</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.5
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.9
Conductivity	24.9 $\mu$ S
% Solids	1.97
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. AD</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 14 / 23
Receiving ID#	503141301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:38
Time out	
Received by	<i>J. [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.)	4.33
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.3
Conductivity	20.3 <i>ms</i>
% Solids	0.94
Turbidity	Yes No
Color	
TSS (%)	< 5
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 13 / 23
Receiving ID#	203132304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2100
Time out	
Received by	M Beuer
Sampled by	M Beuer

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140
pH (S.U.)	4.81
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54.3
Conductivity	19.99
% Solids	1.1
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	M Beuer



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 13 / 23
Receiving ID#	203132303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:00
Time out	
Received by	<i>J. W. [Signature]</i>
Sampled by	<i>J. B. [Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	Y
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	3.83
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.1
Conductivity	20.4 mS
% Solids	1.62
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. W. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 13 / 23
Receiving ID#	203132302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13.00
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

SST-1

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.05
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.3
Conductivity	20.3 μS
% Solids	0.86
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 13 / 23
Receiving ID#	I03132301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:00 AM
Time out	
Received by	<i>J. W. [Signature]</i>
Sampled by	<i>Dalton M</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.00
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.4
Conductivity	19.16 $\mu$ S/cm
% Solids	2.05
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. W. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 11 / 23
Receiving ID#	I03112304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:00
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.)	4.42
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.4
Conductivity	19.19
% Solids	1.39
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 11 / 23
Receiving ID#	I03112303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:00 PM
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.)	3.00
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.0
Conductivity	21.1 mS
% Solids	1.56
Turbidity	Yes No
Color	
TSS (%)	6.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 11 / 23
Receiving ID#	I031123 02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:10 AM
Time out	
Received by	<i>J. Ah</i>
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.)	3.79
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.5
Conductivity	20.3 ms
% Solids	1.56
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Ah</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 11 / 23
Receiving ID#	I03112301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:30 AM
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.)	5.34
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.8
Conductivity	20.8 ms
% Solids	1.22
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 10 / 23
Receiving ID#	IOS102307
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2147
Time out	
Received by	A. Worley
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.)	6.25
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55°
Conductivity	20.9
% Solids	.412
Turbidity	Yes No
Color	
TSS (%)	LO.1
Radiation Screen (as needed)	1
Lab Signature/Initials	A. Worley



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 10 / 23
Receiving ID#	X03102304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1926
Time out	
Received by	M. Bence
Sampled by	M. Bence

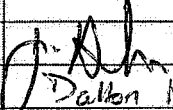
LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.95
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56
Conductivity	39.9
% Solids	1.46
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	M. Bence

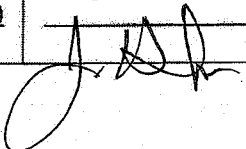
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 10 / 23
Receiving ID#	203102305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1624
Time out	
Received by	M Baer
Sampled by	M Baer

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	5.25
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54.6
Conductivity	16.70
% Solids	.52
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	M Baer

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 10 / 23
Receiving ID#	T03102304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1:06
Time out	
Received by	
Sampled by	Dalton M.

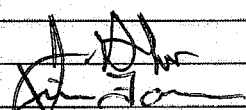

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.92
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.7
Conductivity	31.3 mS
% Solids	2.67
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

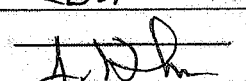
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 10 / 23
Receiving ID#	103102303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:20
Time out	
Received by	<i>J. Al...</i>
Sampled by	<i>J. Al...</i>

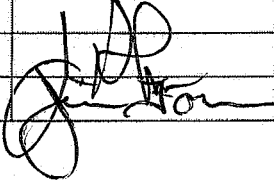
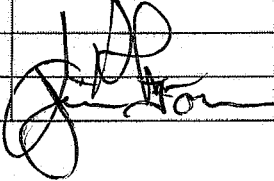
LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	4.87
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54.9
Conductivity	26.7 mS
% Solids	1.48
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Al...</i>

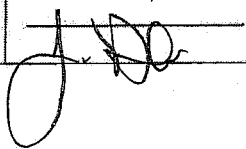
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 10 / 23
Receiving ID#	I03102302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:30AM
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.)	5.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.6
Conductivity	25.2 mS
% Solids	1.40
Turbidity	Yes No
Color	
TSS (%)	< 6.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 10 / 23
Receiving ID#	103102301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:10AM
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.)	5.65
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	0.7) 21.5 62.2
Conductivity	21.5 us
% Solids	1.02
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 09 / 23
Receiving ID#	203092306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1942
Time out	
Received by	M BEAR
Sampled by	M BEAR

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.48
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.9
Conductivity	21.4
% Solids	.14
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	M BEAR

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FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 09 / 23
Receiving ID#	103092305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1657
Time out	
Received by	A. Worlup
Sampled by	A. Worlup

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	2.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	16.59
% Solids	.514
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worlup

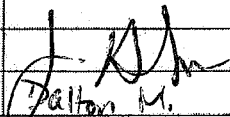


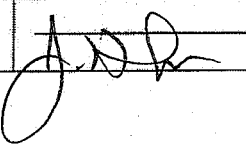
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 09 / 23
Receiving ID#	I03092304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:00
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)	> 240
pH (S.U.)	3.94
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	29.9 mS
% Solids	2.44
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 9 / 23
Receiving ID#	I03092303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:15
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.)	4.00
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.7
Conductivity	30.4 mS
% Solids	2.98
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 09 / 23
Receiving ID#	I03092302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:10 AM
Time out	
Received by	<i>J. Ash</i>
Sampled by	<i>J. Ash</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 170
pH (S.U.)	3.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.6
Conductivity	32.2 mS
% Solids	2.98
Turbidity	Yes No
Color	
TSS (%)	LO.
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Ash</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 09 / 23
Receiving ID#	103092301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:00 AM
Time out	
Received by	<i>J. D. [Signature]</i>
Sampled by	<i>J. D. [Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.10
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.9
Conductivity	33.3 ms
% Solids	3.17
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 08 / 23
Receiving ID#	203082306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2008
Time out	
Received by	M BEIER
Sampled by	M BEIER

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	3.50
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.5
Conductivity	35.7
% Solids	2.23
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	M Beier

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 8 / 23
Receiving ID#	203 08 23 05
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1809
Time out	
Received by	A. W. Wilson
Sampled by	A. W. Wilson

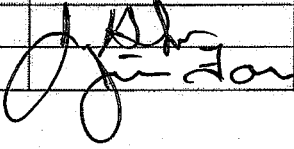
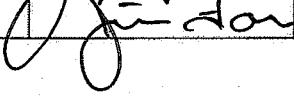
LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	2.65
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.08
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61°
Conductivity	61.3
% Solids	1.79
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. W. Wilson

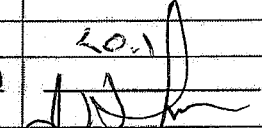
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 08 / 23
Receiving ID#	203082304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1543
Time out	
Received by	<i>J. W. [Signature]</i>
Sampled by	<i>J. M. BEIER</i>

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.92
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.08
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.7
Conductivity	121.5 mS
% Solids	7.18
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. M. [Signature]</i>

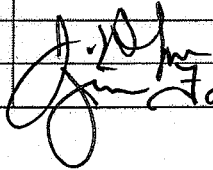
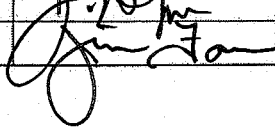
RECEIVING & APPROVAL FORM

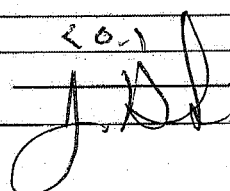
RECEIVING INFORMATION	
Date	03 / 08 / 23
Receiving ID#	I03082303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:36
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.23
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.7
Conductivity	260 mg
% Solids	1.96
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / / 23
Receiving ID#	I03082302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:45 AM
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.)	4.28
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.0
Conductivity	27.5 mS
% Solids	1.51
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 8 / 23
Receiving ID#	T03082301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	08:15
Time out	
Received by	<i>J. A. [Signature]</i>
Sampled by	<i>H. [Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.71
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.3
Conductivity	21.6 mS
% Solids	1.51
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. NR</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 7 / 23
Receiving ID#	I03072306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2:34
Time out	
Received by	A. Worlup
Sampled by	A. Worlup

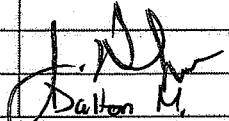
LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	4.49
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	28.4
% Solids	1.37
Turbidity	Yes (No)
Color	Brown
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worlup

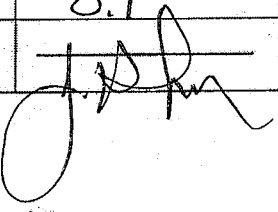
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 07 / 23
Receiving ID#	203072305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1833
Time out	
Received by	B. BEUER
Sampled by	M. BEUER

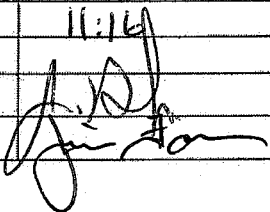
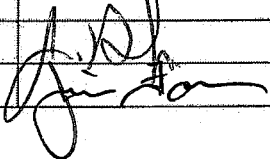
LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	5.68
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	49.1
Conductivity	29.3
% Solids	1.76
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	M. BEUER

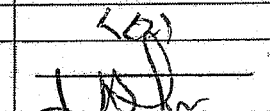
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 7 / 23
Receiving ID#	I03672304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2:45
Time out	
Received by	
Sampled by	Delton M.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	4.21
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.7
Conductivity	29.1 μS
% Solids	2.04
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 07 / 23
Receiving ID#	I03072303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:14
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.)	4.89
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.4
Conductivity	22.2 uS
% Solids	1.70
Turbidity	Yes No
Color	
TSS (%)	5.02
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 7 / 23
Receiving ID#	I03072302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:00am
Time out	
Received by	<i>J. Shaw</i>
Sampled by	Dalton M.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71.4
pH (S.U.)	4.80
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.9
Conductivity	277mS
% Solids	1.31
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Shaw</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 7 / 23
Receiving ID#	103072301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:30
Time out	
Received by	<i>Todd Hamett</i>
Sampled by	<i>Todd Hamett</i>

SST-1

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.28
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56.2
Conductivity	17.36
% Solids	.80
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>Todd Hamett</i>



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 06 / 23
Receiving ID#	203062307
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2140
Time out	
Received by	M. Bear
Sampled by	M. Bear

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 190
pH (S.U.)	6.48
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57
Conductivity	16.84
% Solids	0.72
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	M. Bear

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 06 / 23
Receiving ID#	#03062306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1832
Time out	
Received by	M BEIER
Sampled by	B BEIER

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7/40
pH (S.U.)	5.58
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.2
Conductivity	21.1
% Solids	1.09
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	M BEIER

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 06 / 23
Receiving ID#	203062305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1550
Time out	
Received by	M. Beier
Sampled by	M. Beier

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.07
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	19.99
% Solids	1.28
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	M. Beier

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 6 / 23
Receiving ID#	I03002301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:00
Time out	
Received by	<i>J. D. H.</i>
Sampled by	<i>J. D. H.</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.59
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	586
Conductivity	1896 $\mu$ S
% Solids	100
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. H.</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 6 / 23
Receiving ID#	103062303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:42
Time out	
Received by	<i>J. D. [Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	5740
pH (S.U.)	6.69
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.9
Conductivity	1886.05
% Solids	1.964
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 6 / 23
Receiving ID#	103062100
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	09:30
Time out	
Received by	<i>J. J. [Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	214
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)	68.5
Conductivity	18.68 μS
% Solids	1.75
Turbidity	Yes No
Color	
TSS (%)	LOI
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. J. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3/6/23
Receiving ID#	20306230
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:30
Time out	
Received by	JDR
Sampled by	JNE

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.12
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	550
Conductivity	19.11 mS
% Solids	<del>0.8</del> 1.30
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	JDR

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 03 / 23
Receiving ID#	03032306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1830
Time out	
Received by	<i>J. Adams</i>
Sampled by	BB

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.31
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.2
Conductivity	1618
% Solids	0.05
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Adams</i>



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 3 / 23
Receiving ID#	103032305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:30
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.)	2.66
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.8
Conductivity	15.33
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 3 / 23
Receiving ID#	I03032304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:28
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)	5740
pH (S.U.)	1.60
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.7
Conductivity	20.9ms
% Solids	1.17
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 3 / 23
Receiving ID#	103032303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:30
Time out	
Received by	<i>J. [Signature]</i>
Sampled by	<i>R. [Signature]</i>

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	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.5
Conductivity	19.62 mg
% Solids	1.00
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 3 / 23
Receiving ID#	T03032302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:30
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.)	6.63
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55°
Conductivity	20.4
% Solids	.81%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 3 / 23
Receiving ID#	I03032301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	5:30 AM
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.)	1.84
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.5
Conductivity	31.9
% Solids	1.98
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 02 / 23
Receiving ID#	T03022307
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2044
Time out	
Received by	A. Worley
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.)	1.91
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	550
Conductivity	31.7
% Solids	213
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

3.982

.802

5.18

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 02 / 23
Receiving ID#	203 02 23 06
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1754
Time out	
Received by	A. Warlick
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	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55°
Conductivity	20.6
% Solids	.597
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warlick

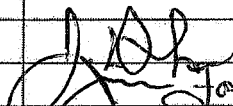
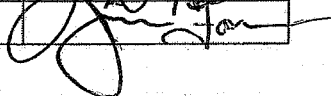
RECEIVING & APPROVAL FORM

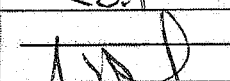
RECEIVING INFORMATION	
Date	8 / 2 / 23
Receiving ID#	1030223 05
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:53
Time out	
Received by	<i>J. [Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.60
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.6
Conductivity	23.4 <i>ms</i>
% Solids	1.06
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. [Signature]</i>



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 02 / 23
Receiving ID#	103022304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:00PM
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.)	6.25
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	24.8 ms
% Solids	1.21
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 02 / 23
Receiving ID#	I03022303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:03
Time out	
Received by	<i>J. Ash</i>
Sampled by	<i>Jim Fox</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.03
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.0
Conductivity	451.03
% Solids	1.19
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Ash</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 02 / 23
Receiving ID#	I03022302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:40 AM
Time out	
Received by	<i>J. Williams</i>
Sampled by	<i>J. Williams</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.17
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.5
Conductivity	37.4 mS
% Solids	0.63
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Williams</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 2 / 23
Receiving ID#	I03022301
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.)	6.11
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56°
Conductivity	15.57
% Solids	.61%
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>n Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 1 / 23
Receiving ID#	203012306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2:50
Time out	
Received by	A. Worley
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.)	6.04
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	
Conductivity	15.26
% Solids	1.51
Turbidity	Yes No
Color	Brown
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 7 / 23
Receiving ID#	IOS 012305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1914
Time out	
Received by	A. Worley
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.)	5.24
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	7.36
% Solids	1.32
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 01 / 23
Receiving ID#	P03012304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1448
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.77
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52.3
Conductivity	0.664
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 1 / 23
Receiving ID#	I03012303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:20
Time out	
Received by	<i>J. Sh</i>
Sampled by	<i>J. Escobar</i>

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	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53.0
Conductivity	0.825 mS
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Sh</i>



RECEIVING & APPROVAL FORM

SST-1

RECEIVING INFORMATION	
Date	3 / 1 / 23
Receiving ID#	203012302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:28
Time out	
Received by	<i>J. J. [Signature]</i>
Sampled by	<i>John Stewart</i>

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.31
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.8
Conductivity	3.22 mS
% Solids	0.10
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. J. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3 / 1 / 23
Receiving ID#	T03012301
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.)	2.29
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.006
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	46°
Conductivity	6.75
% Solids	.08%
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N Escobar</i>

## **WASTE PROFILES**

**Republic Industrial and Energy Solutions, LLC**  
 26470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

**GENERATOR WASTE PROFILE**

Profile # **6440233301**

**GENERATOR INFORMATION:**

Name: **Flocry LLC** USEPA ID: # **GAR000004326** ✓  
 Facility Address: **One Chemical Plant Rd.** SIC/NAICS Code: **2899**  
 City: **Ridgely** State: **GA** Zip Code: **31323**  
 Contact: **Karen Doman** Title: **Plant Manager** Phone: ( ) **884-8386** Fax: ( )

**BILLING INFORMATION**

Company Name: **U.S. Waste Industries, Inc.**  SAME AS ABOVE  
 Address: **4420 Jefferson Blvd.**  
 City: **Wallerboro** State: **SC** Zip Code: **29488**  
 Attention: **Tina Smith** Title: **Billing** Phone: ( ) **689-6692** Fax: ( )

**WASTE INFORMATION**

Name of Waste/Common Chemical Name:  
**Chemguard Contact Water Tank 1 & Tank 2**  
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):  
**Spill cleanup from an accidental product release due to a line freezing.**

**USEPA / STATE WASTE IDENTIFICATION**

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

**PHYSICAL CHARACTERISTICS OF WASTE**

Color: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other	Slurried Solids: <input type="checkbox"/> 0-1% <input type="checkbox"/> 2-5% <input type="checkbox"/> 1-3% <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-layered <input type="checkbox"/> BP Layered <input type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> < 0.1 <input type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.1 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Explosive/Other: _____
---	--	---	---

pH:  < 2  2 - 4  4 - 6  6 - 8  8-10  10 - 12  > 12  
 Liquid Flash Point:  < 73°F  73 - 100°F  101 - 140°F  141 - 200°F  > 200°F  None  Closed Cup  Open Cup  
 VOC CONCENTRATION: 0 (PPM MUST BE COMPLETED)

**TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% LIST EACH CONSTITUENT > 1 = 0.1%**

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Water	89	89.5			
Inert Solids	0	0.01			
Fire suppression foam	0.01	0.1			

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

TCLP  TOTAL

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

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

**18. 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 Waste (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 material Hazard Class: \_\_\_\_\_ UN/NA: \_\_\_\_\_  
 PG: \_\_\_\_\_ ERG: \_\_\_\_\_ Hazardous Constituents for "h.o.s.": \_\_\_\_\_  
 4. Method of Shipment:  Bulk Tanker  Van truck  Rail Car  Drums  Other \_\_\_\_\_  
 5. Number of Units to Ship Now: 40,000 Gal. 6. Anticipated Volume / Units per Year: 40,000 Gal or  One Time.  
 8. Special Handling Requirements including PPE: \_\_\_\_\_

**CERTIFICATION STATEMENT**

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

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

Printed Name: Karen S. Dorman Title: Sr. Env. & PSH Mgr.  
 Generator's Signature: [Signature] Date: 3.2.2003

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

1. \_\_\_\_\_ 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.

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

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

**GENERATOR WASTE PROFILE**

Profile # \_\_\_\_\_

**GENERATOR INFORMATION**

Name: Envirosafe Services of Ohio, Inc. USEPA ID # ODH 045 243 706  
 Facility Address: 876 Otter Creek Rd. SIC/NAICS Code: \_\_\_\_\_ State Code: \_\_\_\_\_  
 City: Oregon State: OH Zip Code: 43616  
 Contact: Kris Mann Title: Envr. Manager Phone: ( 1 9 ) 698-3500 Fax: ( 1 9 ) 698-3518

**BILLING INFORMATION**

SAME AS ABOVE

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

**WASTE INFORMATION**

Name of Waste/Common Chemical Name:  
LSB (T-100, T-200, T-300, T-400); Cell M Multi-Source Leachate (F039)  
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):

Leachate is generated from RCRA solid Hazardous waste landfills (Multi-Source Leachate, F039). Landfill leachate accumulation is pumped then collected/stored within Leachate Storage Building(LSB); within Leachate Storage Tanks (T-100, T-200, T-300, T-400).

**USEPA / STATE WASTE IDENTIFICATION**

- This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCBs, etc.)
- List ALL Applicable Waste Codes: F039

**PHYSICAL CHARACTERISTICS OF WASTE**

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

pH:  NA  < 2  2 — 4  4 — 6  6 — 8  8-10  10 — 12.5  >12.5

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

VOCC CONCENTRATION - 3.96 (8260B) PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Multi-Source Leachate	100	100			

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

	Not Present	Concentration	Not Present	Concentration					
PCB	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input type="checkbox"/>	0.05 ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	<5 ppm
Dioxins	<input checked="" type="checkbox"/>	<1 ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	<100 ppm
Cyanides Reactive	<input type="checkbox"/>	0.23 ppm	Rodenticides	<input type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	<1 ppm
Cyanides Total	<input type="checkbox"/>	0.85 ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	<5 ppm
Sulfides Reactive	<input type="checkbox"/>	170 ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/>	<5 ppm
Sulfides Total	<input type="checkbox"/>	<20 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 Not exceeded  
 3. DOT Shipping Name Hazardous waste, liquid, n.o.s. Hazard Class 9 UN/NA 3082  
 PG III ERG 171 Hazardous Constituents for "n.o.s." F039  
 4. Method of Shipment:  Bulk Tanker  Vac truck  Rail Car  Drums  Totes  
 5. Number of Units to Ship Now 2-4 per week (5000+gal.) 6. Anticipated Volume / Units per Year: 1,400,000 gals. or  One Time  
 6. Special Handling Requirements including PPE:  
Chemical Protective Gloves, safety glasses

**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: Kristofer Mann Title: Environmental Manager  
 Generator's Signature: [Signature] Date: 3/9/2023

**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. Leachate Storage Building  
 SAMPLING METHOD COLLECTION POINT  
 3. Kristofer Mann, Envir. Manager, EnviroSAFE  
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	<u>3/29/2022</u>				



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 6440233301	Expiration Date 3/2/2024	
<b>I. Decision Request:</b>	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
<b>Disposal Facility:</b> 6440 - Detroit Ind Well			
<b>Generator Name:</b> FLOCRYL LLC			
<b>Generator Site Address:</b> ONE CHEMICAL PLANT RD.			
<b>City:</b> RICEBORO	<b>County:</b> <input type="text"/>	<b>State:</b> GA	<b>Zip:</b> <input type="text"/>
<b>Name of Waste:</b> CHEMGUARD CONTACT WATER TANK 1 & TANK 2			
<b>Estimated Annual Volume:</b> 40,000 Gallons			

**II. Special Waste Department Decision:**     Approved     Rejected

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

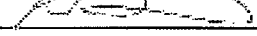
**Problematic Special Waste according to Republic?**     Yes     No

**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:** 3/9/2023

**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:** 3/9/2023

**Name (Printed):** BEN FROST



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 17 / 23
Receiving ID#	Chemguard Contact Water Tank
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	Fluoroyl, LLC
Client	
Transporter	
Time in	
Time out	
Received by	J. Nelson
Sampled by	C. J. ...

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.13
Cyanides? (mg/L)	< 30
Sulfides? (ppm)?	< 200
Specific Gravity	1.03
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes (No)
Temperature (F)	70.0
Conductivity	0.663ms
% Solids	0.16
Turbidity	Yes (No)
Color	lt. brown
TSS (%)	< 0.1
Radiation Screen (as needed)	Neg
Lab Signature/Initials	J. Nelson

(See attached Lab Notes)

3/7/23 Pre-Qual  
 I.D. Chengrad Contact Water Task 1  
 Gen.: Floccyl, LLC

2.728

? Solids: 0.16      0.818 - 0.815 = 0.003  
 1.913

FP. > 140      Sp. Gr: 1.03  
 pH 6.43      Corrd.: 0.663 r/s  
 CN < 30      ? Solids: 0.16  
 S<sup>2-</sup> < 200      ? TSS < 0.1

50:50 Compat. b.t. f.

- |    |            |   |  |
|----|------------|---|--|
| #1 | HCl-Sample | ⇒ | Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub> /N <sub>2</sub> AT 1 |
| #2 | Sample     | → | Endura Modern HNO <sub>3</sub> ⇒                                   |
| #3 |            | → | CiC leachate ⇒   |
| #4 |            | → | CFL leachate ⇒   |
| #5 |            | → | As H <sub>2</sub> O CWD of N ⇒                                     |
| #6 |            | → | Phenol Water ⇒   |
| #7 |            | → | CECOS, LTS ⇒   |

Comment: Sample is compat. b/w All  
 Tested wastestreams

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 / 17 / 23
Receiving ID#	Chenguard Control Water Tank 2
Manifest #	Line
Land Ban Cert included	Yes - No
EGT Approval #	
Generator	Floccyl, LLC
Client	
Transporter	
Time in	
Time out	
Received by	J. Decker
Sampled by	C. Dent

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.55
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<20
Specific Gravity	1.02
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.2
Conductivity	6.760
% Solids	0.10
Turbidity	Yes No
Color	Colorless
TSS (%)	<0.1
Radiation Screen (as needed)	None
Lab Signature/Initials	J. Decker

(See Attached Lab Notes)

3/7/23 Pre-Qual

ID: Chemgard Contact Water Tank 2

Gen: Floccy), LLC

% Solids 0.10

2.714

$$\frac{0.881 - 0.799}{1.915} = 0.002$$

F.P. > 140

Sp. Gr 1.02

pH 6.55

Cond: 0.760  $\mu$ S

CN < 30

% Solids: 0.10

S<sup>2-</sup> < 200

% TSS < 0.1

50:50 Competibility

#1

HCl  $\rightarrow$  Sample

~~$\Rightarrow$~~

No Rx / No AT 9

#2

Sample  $\rightarrow$  Endura Modern HNB3  $\Rightarrow$

#3

$\rightarrow$  CIC Leachate  $\Rightarrow$

#4

$\rightarrow$  CFL Leachate  $\Rightarrow$

#5

$\rightarrow$  As Water CW Dayton  $\Rightarrow$

#6

$\rightarrow$  Phenol Water  $\Rightarrow$

#7

$\rightarrow$  CECOS, LTS  $\Rightarrow$

Comment: Sample is compatible w/ All tested waste streams



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile # 6440233396		Expiration Date 1/13/2024	
<b>I. Decision Request:</b> <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change			
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: ENVIROSAFE SERVICES OF OHIO, INC			
Generator Site Address: 876 OTTER CREEK RD			
City: OREGON	County: <input type="text"/>	State: OH	Zip: <input type="text"/>
Name of Waste: LSB (T-200, T-300, T-400) CELL M MULTI-SOURCE LEACHATE (F039)			
Estimated Annual Volume: 1,400,000 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: 3/10/2023

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: ~~3-10-2023~~  
3-16-23

Name (Printed): John Frost

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	12/21/21
Receiving ID#	2021 Mixed Leachate (F039)
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	ENV. Safe Services of OH, Inc.
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION	
Compatible? (RT#)	N
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	9.02
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	240
Specific Gravity	1.05
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes (No)
Temperature (F)	68.1
Conductivity	59.6 mS
% Solids	0.17
Turbidity	Yes No
Color	Black
TSS (%)	0.25
Radiation Screen (as needed)	Neg.
Lab Signature/Initials	O.J.H.

(See Attached Lab Notes)

12/21/21 Pre-Qual (Rec'd 12/20/21)  
 ID: 2021 Mixed Leachate (FO39)  
 GRI: Environmental Services of Ohio, Inc.

7. Solids 6.17

$$\begin{array}{r} 7.151 \\ 1.527 - 1.157 = 0.370 \\ \hline 5.994 \end{array}$$

5.42 M HCl / 1000 M Sample  $\rightarrow$  pH 6.5

54.2 L HCl / 10,000 L Sample

14 gal HCl / 2642 gal

63 gal HCl  $\approx$  12,000

50:50 Competibility

1	HCL $\rightarrow$ Sample	$\Rightarrow$	No Rx
2	50% NaOH $\rightarrow$ Sample	$\Rightarrow$	
3	Sample $\rightarrow$ H <sub>2</sub> Brine	$\Rightarrow$	
4	$\rightarrow$ Ajax Det	$\Rightarrow$	
5	$\rightarrow$ CFL	$\Rightarrow$	
6	$\rightarrow$ KC Jones (Elect. Ni)	$\Rightarrow$	

Comment: Sample Competibility  $\rightarrow$  #6



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

**Republic Industrial and Energy Solutions, LLC**

**Required notice of waste acceptance [40 CFR 264.12(b)]**

Generator: Envirosafe of Ohio, Inc

Generator Address 876 Otter Creek Rd Oregon OH 43616

Waste Name: Multi Source Leachate F039

Waste Codes: F039

RIES approval number: 6440233396

Republic Industrial and Energy Solutions, LLC (RIES) hereby informs the waste generator identified above that RIES has all of the appropriate permits and licenses and will accept the waste stream identified by the above waste name and RIES approval number

Signature: 

John Frost Operations Manager

Date: 3.16.23





# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 6440234383	Expiration Date 2/16/2024	
<b>I. Decision Request:</b>	<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Recertification	<input type="checkbox"/> Change
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: TAWAS PLATING - OLD USE APPROVAL 5623-ODET			
Generator Site Address: 510 INDUSTRIAL DRIVE			
City: TAWAS	County: <input type="text"/>	State: MI	Zip: <input type="text"/>
Name of Waste: ELECTROLESS NICKEL SOLUTION			
Estimated Annual Volume: 60,000 Gallons			

**II. Special Waste Department Decision:**       Approved     Rejected

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

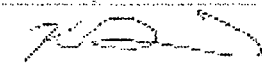
Problematic Special Waste according to Republic?     Yes     No

If yes, which one?   

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

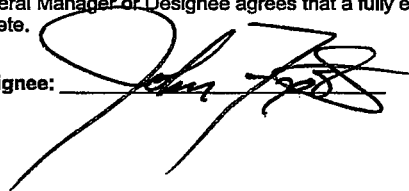
The site must ensure that all pre-acceptance and verification analytical is performed in accordance with the site's permit requirements prior to acceptance and disposal of the profiled waste.

Special Waste Analyst Signature:       Name (Printed): KEITH DIAMANTI  
Date: 3/29/2023

**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:       Name (Printed): JOHN FROST  
Date: 3/29/2023

**Republic Industrial and Energy Solutions, LLC**

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

**GENERATOR WASTE PROFILE**

Profile # 6440234383

**GENERATOR INFORMATION**

Name: Tawas Plating - Old USE Approval 5623-ODET USEPA ID # MID020892121  
 Facility Address: 510 Industrial Drive SIC/NAICS Code: State Code: 332813  
 City: Tawas City State: MI Zip Code: 48763  
 Contact: Kevin Jungquist Title: President Phone: ( 8 1 0 ) 3622011 Fax: ( 8 1 0 ) 6012535

**BILLING INFORMATION**

SAME AS ABOVE

Company Name: Tawas Plating Company  
 Address: PO Box 419  
 City: Tawas City State: MI Zip Code: 48764  
 Attention: Lynette Plawecki Title: AP Manager Phone: ( 8 1 0 ) 3622011 Fax: ( 8 1 0 ) 6012535

**WASTE INFORMATION**

Name of Waste/Common Chemical Name:  
Electroless Nickel Solution  
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):  
~~Electroless nickel plating on carbon steel components.~~

**USEPA / STATE WASTE IDENTIFICATION**

- This waste is considered to be:  Non-hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCBs, etc.)
- List ALL Applicable Waste Codes: None

**PHYSICAL CHARACTERISTICS OF WASTE**

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

pH:  NA  < 2  2 - 4  4 - 6  6 - 8  8-10  10 - 12.5  >12.5

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

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Electroless Nickel Solution	100	100			

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

TCLP  TOTAL

	Not Present	Concentration		Not Present	Concentration				
PCB	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input checked="" type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	<5 ppm
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-Hazardous Liquids Hazard Class \_\_\_\_\_ UN/NA \_\_\_\_\_  
 PG \_\_\_\_\_ ERG \_\_\_\_\_ Hazardous Constituents for "n.o.s." \_\_\_\_\_  
 4. Method of Shipment:  Bulk Tanker  Vac truck  Rail Car  Drums  Totes  
 5. Number of Units to Ship Now 5000 gallons 6. Anticipated Volume / Units per Year: 60,000 gallons or  One Time  
 6. Special Handling Requirements including PPE: \_\_\_\_\_  
 None

**CERTIFICATION STATEMENT**

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

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

Printed Name: Kevin T. Jungquist Title: President  
 Generator's Signature:  Date: 2/16/2023

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

1. Grab 2. Working Tank  
 SAMPLING METHOD COLLECTION POINT  
 3. Mike Cate, Sales, US Ecology  
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

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**



03-May-2023

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

Re: **March F039 Leachate- 04.04.23**

Work Order: **23040347**

Dear Rick,

ALS Environmental received 1 sample on 04-Apr-2023 09:30 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:** March F039 Leachate- 04.04.23  
**Work Order:** 23040347

**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>
23040347-01	March 2023 F039	Liquid		4/4/2023 15:45	4/4/2023 21:30	<input type="checkbox"/>

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**Client:** Republic Industrial and Energy Solutions, LLC  
**Project:** March F039 Leachate- 04.04.23  
**WorkOrder:** 23040347

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**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	



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**Client:** Republic Industrial and Energy Solutions, LLC  
**Project:** March F039 Leachate- 04.04.23  
**Work Order:** 23040347

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**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 214012, Method SW8270E, Sample March 2023 F039 (23040347-01A): The internal standard response was outside recovery criteria with high bias; sample results may exhibit bias. Naphthalene-d8.

Batch 214012, Method SW8270E, Sample March 2023 F039 (23040347-01A): One or more surrogate recoveries are unavailable due to sample matrix interference. Target analytes were not affected by the interference. No qualification is necessary.

Batch 214012, Method SW8270E, Sample March 2023 F039 (23040347-01A): One or more of the surrogates were below the limits due to matrix interference.

Batch 213966, Method SW8081B, Sample PLCSDW1-213966: The RPD between the LCS and LCSD was outside of the control limit. The sample results should be considered estimated for this analyte: Endosulfan sulfate.

Batch 213966, Method SW3511, Sample March 2023 F039 (23040347-01A): Initial volume decreased due to cloudy green sample matrix.

**ALS Group, USA**

Date: 03-May-2023

**Client:** Republic Industrial and Energy Solutions, LLC  
**Project:** March F039 Leachate- 04.04.23  
**Sample ID:** March 2023 F039  
**Collection Date:** 4/4/2023 03:45 PM

**Work Order:** 23040347  
**Lab ID:** 23040347-01  
**Matrix:** LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>PESTICIDES</b>			<b>SW8081B</b>	Prep: SW3511 4/5/23 15:44		Analyst: LTD
Aldrin	ND		0.10	µg/L	1	4/6/2023 03:12 PM
Surr: Decachlorobiphenyl	110		42-148	%REC	1	4/6/2023 03:12 PM
Surr: Tetrachloro-m-xylene	167	S	57-141	%REC	1	4/6/2023 03:12 PM
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8270E</b>	Prep: SW3510 4/6/23 16:38		Analyst: EEW
N-Nitrosodimethylamine	ND		41	µg/L	1	4/7/2023 09:46 PM
Surr: 2,4,6-Tribromophenol	74.5		38-103	%REC	1	4/7/2023 09:46 PM
Surr: 2-Fluorobiphenyl	61.5		36-96	%REC	1	4/7/2023 09:46 PM
Surr: 2-Fluorophenol	34.2		20-73	%REC	1	4/7/2023 09:46 PM
Surr: 4-Terphenyl-d14	72.4		44-114	%REC	1	4/7/2023 09:46 PM
Surr: Nitrobenzene-d5	6.90	S	33-100	%REC	1	4/7/2023 09:46 PM
Surr: Phenol-d6	0	S	10-48	%REC	1	4/7/2023 09:46 PM
<b>SUBCONTRACTED ANALYSES</b>			<b>SUBCONTRACT</b>			Analyst: ALS
Subcontracted Analyses	Complete			as noted	1	5/3/2023 03:40 PM

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

**Client:** Republic Industrial and Energy Solutions, LLC  
**Work Order:** 23040347  
**Project:** March F039 Leachate- 04.04.23

**QC BATCH REPORT**

Batch ID: **213966** Instrument ID **GC12** Method: **SW8081B**

MBLK		Sample ID: PBLKW1-213966-213966			Units: µg/L		Analysis Date: 4/6/2023 11:31 AM			
Client ID:		Run ID: GC12_230406A			SeqNo: 9417048		Prep Date: 4/5/2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	ND	0.010								
Surr: Decachlorobiphenyl	0.2516	0	0.25	0	101	42-148	0			
Surr: Tetrachloro-m-xylene	0.1762	0	0.25	0	70.5	57-141	0			

LCS		Sample ID: PLCSW1-213966-213966			Units: µg/L		Analysis Date: 4/6/2023 11:59 AM			
Client ID:		Run ID: GC12_230406A			SeqNo: 9417050		Prep Date: 4/5/2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.1712	0.010	0.2	0	85.6	51-164	0			
Surr: Decachlorobiphenyl	0.2508	0	0.25	0	100	42-148	0			
Surr: Tetrachloro-m-xylene	0.192	0	0.25	0	76.8	57-141	0			

LCSD		Sample ID: PLCSDW1-213966-213966			Units: µg/L		Analysis Date: 4/6/2023 12:13 PM			
Client ID:		Run ID: GC12_230406A			SeqNo: 9417051		Prep Date: 4/5/2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.179	0.010	0.2	0	89.5	51-164	0.1712	4.45	20	
Surr: Decachlorobiphenyl	0.2486	0	0.25	0	99.4	42-148	0.2508	0.881	20	
Surr: Tetrachloro-m-xylene	0.1854	0	0.25	0	74.2	57-141	0.192	3.5	20	

The following samples were analyzed in this batch: 23040347-01A

Client: Republic Industrial and Energy Solutions, LLC  
 Work Order: 23040347  
 Project: March F039 Leachate- 04.04.23

## QC BATCH REPORT

Batch ID: 214012 Instrument ID SVMS10 Method: SW8270E

MBLK		Sample ID: SBLKW1-214012-214012			Units: µg/L		Analysis Date: 4/10/2023 03:22 PM			
Client ID:		Run ID: SVMS10_230410A			SeqNo: 9426950		Prep Date: 4/6/2023		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	37.52	0	50	0	75	38-103	0			
Surr: 2-Fluorobiphenyl	36.56	0	50	0	73.1	36-96	0			
Surr: 2-Fluorophenol	27.14	0	50	0	54.3	20-73	0			
Surr: 4-Terphenyl-d14	40.17	0	50	0	80.3	44-114	0			
Surr: Nitrobenzene-d5	37.25	0	50	0	74.5	33-100	0			
Surr: Phenol-d6	18.85	0	50	0	37.7	10-48	0			

LCS		Sample ID: SLCSW1-214012-214012			Units: µg/L		Analysis Date: 4/7/2023 05:42 PM			
Client ID:		Run ID: SVMS10_230407A			SeqNo: 9422907		Prep Date: 4/6/2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	9.37	5.0	20	0	46.8	22-77	0			
Surr: 2,4,6-Tribromophenol	37.58	0	50	0	75.2	38-103	0			
Surr: 2-Fluorobiphenyl	34.47	0	50	0	68.9	36-96	0			
Surr: 2-Fluorophenol	23.98	0	50	0	48	20-73	0			
Surr: 4-Terphenyl-d14	38.9	0	50	0	77.8	44-114	0			
Surr: Nitrobenzene-d5	34.19	0	50	0	68.4	33-100	0			
Surr: Phenol-d6	16.24	0	50	0	32.5	10-48	0			

MS		Sample ID: 23040131-10B MS			Units: µg/L		Analysis Date: 4/7/2023 06:09 PM			
Client ID:		Run ID: SVMS10_230407A			SeqNo: 9422908		Prep Date: 4/6/2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	9.211	5.3	21.37	0	43.1	22-77	0			
Surr: 2,4,6-Tribromophenol	38.41	0	53.43	0	71.9	38-103	0			
Surr: 2-Fluorobiphenyl	35.01	0	53.43	0	65.5	36-96	0			
Surr: 2-Fluorophenol	24.52	0	53.43	0	45.9	20-73	0			
Surr: 4-Terphenyl-d14	40.01	0	53.43	0	74.9	44-114	0			
Surr: Nitrobenzene-d5	33.92	0	53.43	0	63.5	33-100	0			
Surr: Phenol-d6	16.95	0	53.43	0	31.7	10-48	0			

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

**Client:** Republic Industrial and Energy Solutions, LLC  
**Work Order:** 23040347  
**Project:** March F039 Leachate- 04.04.23

## QC BATCH REPORT

Batch ID: **214012**      Instrument ID **SVMS10**      Method: **SW8270E**

MSD		Sample ID: 23040131-10B MSD			Units: µg/L		Analysis Date: 4/7/2023 06:36 PM			
Client ID:		Run ID: SVMS10_230407A			SeqNo: 9422909		Prep Date: 4/6/2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	10.13	5.6	22.21	0	45.6	22-77	9.211	9.47	30	
<i>Surr: 2,4,6-Tribromophenol</i>	43.34	0	55.52	0	78.1	38-103	38.41	12.1	40	
<i>Surr: 2-Fluorobiphenyl</i>	40.25	0	55.52	0	72.5	36-96	35.01	13.9	40	
<i>Surr: 2-Fluorophenol</i>	28.15	0	55.52	0	50.7	20-73	24.52	13.8	40	
<i>Surr: 4-Terphenyl-d14</i>	42.98	0	55.52	0	77.4	44-114	40.01	7.17	40	
<i>Surr: Nitrobenzene-d5</i>	39.5	0	55.52	0	71.1	33-100	33.92	15.2	40	
<i>Surr: Phenol-d6</i>	19.66	0	55.52	0	35.4	10-48	16.95	14.8	40	

The following samples were analyzed in this batch: | 23040347-01A

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



May 03, 2023

Service Request No:E2300355

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

**Laboratory Results for: 23040347**

Dear Chelsey,

Enclosed are the results of the sample(s) submitted to our laboratory April 11, 2023  
For your reference, these analyses have been assigned our service request number **E2300355**.

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](mailto: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](http://www.alsglobal.com)

## ALS Environmental

<b>Client:</b>	ALS Environmental - Holland	<b>Service Request No.:</b>	E2300355
<b>Project:</b>	23040347	<b>Date Received:</b>	04/11/23
<b>Sample Matrix:</b>	Aqueous Leachate		

### 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 04/11/23.

The sample was received in good condition and is consistent with the accompanying chain of custody form. (Dioxin/furan compounds are stable at room temperature.) The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

#### Data Validation Notes and Discussion

##### Precision and Accuracy:

EQ2300198: 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 EQ2300198-01 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.

##### 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.

##### 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.

##### Detection Limits

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



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

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

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

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347

**Service Request:**E2300355

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E2300355-001	March 2023 F039	4/4/2023	1545

## Service Request Summary

**Folder #:** E2300355  
**Client Name:** ALS Environmental - Holland (MI)  
**Project Name:** 23040347  
**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

**Project Chemist:** James Guin  
**Originating Lab:** HOUSTON  
**Logged By:** CGRANDITS  
**Date Received:** 04/11/23  
**Internal Due Date:** 4/28/2023  
**QAP:** LAB QAP  
**Qualifier Set:** HRMS Qualifier Set  
**Formset:** Lab Standard  
**Merged?:** Y  
**Report to MDL?:** Y  
**P.O. Number:** 20-23040347  
**EDD:** No EDD Specified

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

Lab Samp No.	Client Samp No	Matrix	Collected
E2300355-001	March 2023 F039	Aqueous Leachate	04/04/23 1545
HOUSTON			II
Dioxins Furans/1613B			

**Service Request Summary**

**Folder #:** E2300355  
**Client Name:** ALS Environmental - Holland (MI)  
**Project Name:** 23040347  
**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 1C  
**Pressure Gas:**

**Project Chemist:** James Guin  
**Originating Lab:** HOUSTON  
**Logged By:** CGRANDITS  
**Date Received:** 04/11/23  
**Internal Due Date:** 4/28/2023  
**QAP:** LAB QAP  
**Qualifier Set:** HRMS Qualifier Set  
**Formset:** Lab Standard  
**Merged?:** Y  
**Report to MDL?:** Y  
**P.O. Number:** 20-23040347  
**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

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## Acronyms

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



### State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
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
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
Minnesota Department of Health	2368363	12/31/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2024
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
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 E2300355

DB-5MSUI

SPB-Octyl

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

Date:	Analyst:	Samples:
05/02/23	LKL	001

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

Date:	Analyst:	Samples:
07/07/23	SL	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](http://www.alsglobal.com)



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

TEL: (281) 530-5656  
 FAX: (281) 530-5887  
 Acct #:

# CHAIN-OF-CUSTODY RECORD

Date: 05-Apr-23  
 COC ID: 22573  
 Due Date: 28-Apr-23

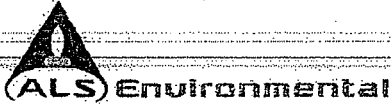
Page 1 of 1

Customer Information		ALSHN Account		Parameter/Method Request for Analysis																
Purchase Order	20-23040347	Project Name	23040347	A: Subcontracted Analyses (SUBCONTRACT)																
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																	
Send Report To	Chelsey Cook	Inv Attn:	Accounts Payable																	
Address	3352 128th Ave	Address	3352 128th Ave																	
City/State/Zip	Holland, Michigan 49424	City/State/Zip	Holland, Michigan 49424																	
Phone	(616) 399-6070	Phone	(616) 399-6070																	
Fax	(616) 399-6185	Fax	(616) 399-6185																	
eMail Address	chelsey.cook@ALSglobal.com	eMail CC																		
ALS Sample ID	Client Sample ID	Matrix	Collection Date	24hr	Bottle															
23040347-01B	March 2023 F039	Liquid	4/Apr/2023 15:45	(1)	250AMGNEAT															

**Comments:**  
 Please analyze the enclosed sample for 2,3,7,8-TCDD by 8290 with indicated turnaround time. Please report on a dry weight basis. Sample does not need to be returned and can be disposed of after 30 days.

Cooler ID's: *Cooler Recd*  
 Temp: *22.9*  
*20231*  
*CF-0.5*

Relinquished by:	<i>Chelsey Cook</i>	Date/Time	<i>4-5-23 2:15pm</i>	Received by:	<i>SM</i>	Date/Time	<i>04/11/23</i>	Cooler IDs		Report/QC Level	
Relinquished by:		Date/Time		Received by:		Date/Time		Cooler IDs		Report/QC Level	



# Cooler Receipt Form

Project Chemist JL

Client/Project AL4

Thermometer ID 1251

Date/Time Received: 4-11-23

Initials: GM

Date/Time Logged in: 4-11-23

Initials LA

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  
 Were they intact?  Yes  No  N/A  
 Were they signed and dated?  Yes  No  N/A

If yes, how many and where?

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

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

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
5551 4740 5105		4-11-23	1450	GM	22.4	<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  
T: +1 281 530 5656  
F: +1 281 530 5887  
[www.alsglobal.com](http://www.alsglobal.com)

## SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

### **Sample Integrity (mandatory):**

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

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

### **Temperature Requirement (varies by sample matrix):**

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

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



## Preparation Information Benchsheets

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

# Preparation Information Benchsheet

**Prep Run#:** 418369      **Prep WorkFlow:** OrgExtAq(365)      **Status:** Prepped  
**Team:** Semivoa GCMS/NBIDJONGO      **Prep Method:** Method Sep Funnel/Jar      **Prep Date/Time:** 4/18/23 09:20

#	Lab Code	Client ID	B#	Method /Test	pH	CI	Matrix	Amt. Ext.	Sample Description
1	E2300261-001	WW	.01	1613B/Dioxins Furans			Water	95mL	
2	E2300267-001	BP-2210 EQUISTAR/BASELL BS	.01	1613B/Dioxins Furans			Wastewater	1037mL	yellow cloudy
3	E2300267-002	BP-2230 CELANESE CL BS3	.01	1613B/Dioxins Furans			Wastewater	1053mL	yellow cloudy
4	E2300267-003	BP-2240 CELANESE CL BS2	.01	1613B/Dioxins Furans			Wastewater	1039mL	yellow cloudy
5	E2300267-004	BP-2250 CELANESE CL CS	.01	1613B/Dioxins Furans			Wastewater	1037mL	yellow cloudy
6	E2300267-005	BP-2255 LYONDELL BS3	.01	1613B/Dioxins Furans			Wastewater	1056mL	yellow cloudy
7	E2300268-001	3292276-001	.01	1613B/Dioxins Furans			Water	1067mL	
8	E2300269-001	AD76935-2018-01	.01	1613B/Dioxins Furans			Water	867mL	
9	E2300269-002	AD76936-2018-04	.01	1613B/Dioxins Furans			Water	965mL	
10	E2300273-001	3291940001	.01	1613B/Dioxins Furans			Wastewater	1067mL	
11	E2300285-001	BP-2440 ATHLON BS	.01	1613B/Dioxins Furans			Wastewater	1030mL	yellow cloudy
12	E2300285-002	BP-2445 AM ACRYL BS	.01	1613B/Dioxins Furans			Wastewater	1047mL	yellow cloudy
13	E2300285-003	BP-2450 INTERGULF LS BS	.01	1613B/Dioxins Furans			Wastewater	1054mL	yellow cloudy
14	E2300285-004	BP-2460 DIXIE BS	.01	1613B/Dioxins Furans			Wastewater	1041mL	yellow cloudy
15	E2300292-001	Affluent Tbil+307 Comp	.01	1613B/Dioxins Furans			Water	1022mL	
16	E2300293-001	Influent Tbil+307 Comp	.01	1613B/Dioxins Furans			Water	990mL	
17	E2300337-003	GP-BE-04-05-23	.01	1613B/Dioxins Furans			Water	2000mL	orange cloudy
18	E2300355-001	March 2023 F039	.01	1613B/Dioxins Furans			Aqueous Leachate	240mL	greenish brown
19	EQ2300198-01	MB		1613B/Dioxins Furans			Liquid	1000mL	
20	EQ2300198-02	LCS		1613B/Dioxins Furans			Liquid	1000mL	
21	EQ2300198-03	DLCS		1613B/Dioxins Furans			Liquid	1000mL	

### Spiking Solutions

Name: 8290/1613B Cleanup Working Standard		Inventory ID	227534	Logbook Ref:	NB 02/09/23 @8ng/mL	Expires On:	12/28/2023
E2300261-001	100.00µL	E2300267-001	100.00µL	E2300267-003	100.00µL	E2300267-004	100.00µL
E2300268-001	100.00µL	E2300269-001	100.00µL	E2300273-001	100.00µL	E2300285-001	100.00µL
E2300285-003	100.00µL	E2300285-004	100.00µL	E2300293-001	100.00µL	E2300337-003	100.00µL
EQ2300198-01	100.00µL	EQ2300198-02	100.00µL	EQ2300198-03	100.00µL		
Name: 1613B Matrix Working Standard		Inventory ID	228647	Logbook Ref:	NB 04/13/23Mws@2-20ng/mL	Expires On:	10/10/2023
EQ2300198-02	100.00µL	EQ2300198-03	100.00µL				
Name: 1613B Labeled Working Standard		Inventory ID	228704	Logbook Ref:	tw 228701 04/18/23	Expires On:	08/10/2023

# Preparation Information Benchsheet

**Prep Run#:** 418369

**Team:** Semivoa GCMS/NBIDJONGO

**Prep WorkFlow:** OrgExtAq(365)

**Prep Method:** Method Sep Funnel/Jar

**Status:** Prepped

E2300261-001	1,000.00µL	E2300267-001	1,000.00µL	E2300267-002	1,000.00µL	E2300267-003	1,000.00µL	E2300267-004	1,000.00µL	E2300267-005	1,000.00µL
E2300268-001	1,000.00µL	E2300269-001	1,000.00µL	E2300269-002	1,000.00µL	E2300273-001	1,000.00µL	E2300285-001	1,000.00µL	E2300285-002	1,000.00µL
E2300285-003	1,000.00µL	E2300285-004	1,000.00µL	E2300292-001	1,000.00µL	E2300293-001	1,000.00µL	E2300337-003	1,000.00µL	E2300355-001	1,000.00µL
EQ2300198-01	1,000.00µL	EQ2300198-02	1,000.00µL	EQ2300198-03	1,000.00µL						

## Preparation Materials

Carbon, High Purity	OO carbon 03/08/2023 (227980)
Hexanes 95%	OO 4/24/23 hexane (228822)
Sodium Hydroxide 1N NaOH	NB 11/22/22 Sodium hydroxide 1 (226259)
Silica Gel	bf 01/09/2023 (227218)
Sodium Sulfate Anhydrous Reagent Grade Na2SO4	SN 5/18/22 (223143)

Ethyl Acetate 99.9% Minimum EtOAc	OO 4/24/23 C4H8O4 (228820)
Chlorine Test Strips	NB 11/22/22 Chlorine (226261)
Tridecane (n-Tridecane)	NB 04/10/23 Tridecane (228575)
sulfuric acid	NB 02/02/23 H2SO4 (227458)
Glass Wool	bf 12/08/2022 (226936)
Dichloromethane (Methylene Chloride) 99.9% MeCl2	OO 4/24/23 CH2CL2 (228819)
pH Paper 0-14	NB 11/22/22 pH0-14 (226262)
Toluene 99.9% Minimum	OO 4/24/23 (228818)

## Preparation Steps

Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean	Step:	Final Volume
Started:	4/18/23 09:20	Started:	4/20/23 09:02	Started:	4/20/23 09:00	Started:	4/24/23 09:00
Finished:	4/18/23 17:00	Finished:	4/20/23 14:00	Finished:	4/20/23 14:00	Finished:	4/24/23 15:00
By:	TWOODS	By:	TWOODS	By:	TWOODS	By:	TWOODS
Comments:		Comments:		Comments:		Comments:	

Comments:

Reviewed By: NB Date: 04/18/23

Chain of Custody

Relinquished By: \_\_\_\_\_

Date: \_\_\_\_\_

Received By: \_\_\_\_\_

Date: \_\_\_\_\_

Extracts Examined

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](http://www.alsglobal.com)



**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate  
**Sample Name:** March 2023 F039  
**Lab Code:** E2300355-001

**Service Request:** E2300355  
**Date Collected:** 04/04/23 15:45  
**Date Received:** 04/11/23 14:50  
**Units:** pg/L  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 240mL  
**Data File Name:** P636435  
**ICAL Date:** 03/31/23

**Date Analyzed:** 05/01/23 19:47  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI  
**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Native Analyte Results**

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	8.48	20.8			1
1,2,3,7,8-PeCDD	17.4JK		5.52	104	1.15	1.000	1
1,2,3,4,7,8-HxCDD	25.1JK		3.85	104	1.45	1.000	1
1,2,3,6,7,8-HxCDD	58.7JK		3.57	104	0.83	1.000	1
1,2,3,7,8,9-HxCDD	36.9J		3.53	104	1.27	1.007	1
1,2,3,4,6,7,8-HpCDD	582		14.7	104	0.95	1.000	1
OCDD	2790		24.7	208	0.91	1.000	1
2,3,7,8-TCDF	55.4		4.78	20.8	0.67	1.001	1
1,2,3,7,8-PeCDF	484K		25.9	104	1.81	1.001	1
2,3,4,7,8-PeCDF	410		28.1	104	1.51	1.001	1
1,2,3,4,7,8-HxCDF	5920		13.1	104	1.21	1.000	1
1,2,3,6,7,8-HxCDF	2010P		14.4	104	1.22	1.000	1
1,2,3,7,8,9-HxCDF	146		16.9	104	1.23	1.001	1
2,3,4,6,7,8-HxCDF	435		12.4	104	1.11	1.000	1
1,2,3,4,6,7,8-HpCDF	42900		25.0	104	1.00	1.000	1
1,2,3,4,7,8,9-HpCDF	712		21.3	104	1.13	1.000	1
OCDF	63200		48.8	208	0.86	1.005	1

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate  
**Sample Name:** March 2023 F039  
**Lab Code:** E2300355-001

**Service Request:** E2300355  
**Date Collected:** 04/04/23 15:45  
**Date Received:** 04/11/23 14:50  
**Units:** pg/L  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 240mL  
**Data File Name:** P636435  
**ICAL Date:** 03/31/23

**Date Analyzed:** 05/01/23 19:47  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI  
**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Native Analyte Results**

<b>Analyte Name</b>	<b>Result</b>	<b>Q</b>	<b>EDL</b>	<b>MRL</b>	<b>Ion Ratio</b>	<b>RRT</b>	<b>Dilution Factor</b>
Total Tetra-Dioxins	32.0		8.48	20.8	0.66		1
Total Penta-Dioxins	226		5.52	104	1.40		1
Total Hexa-Dioxins	446		3.64	104	1.20		1
Total Hepta-Dioxins	582		14.7	104	0.95		1
Total Tetra-Furans	2580		4.78	20.8	0.78		1
Total Penta-Furans	5660		2.61	104	1.49		1
Total Hexa-Furans	16600		14.0	104	1.07		1
Total Hepta-Furans	45800		23.0	104	1.00		1

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate  
**Sample Name:** March 2023 F039  
**Lab Code:** E2300355-001

**Service Request:** E2300355  
**Date Collected:** 04/04/23 15:45  
**Date Received:** 04/11/23 14:50  
**Units:** Percent  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 240mL  
**Data File Name:** P636435  
**ICAL Date:** 03/31/23

**Date Analyzed:** 05/01/23 19:47  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI  
**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Labeled Standard Results**

<b>Labeled Compounds</b>	<b>Spike Conc.(pg)</b>	<b>Conc. Found (pg)</b>	<b>% Rec</b>	<b>Q</b>	<b>Control Limits</b>	<b>Ion Ratio</b>	<b>RRT</b>
13C-2,3,7,8-TCDD	2000	891.527	45		25-164	0.81	1.021
13C-1,2,3,7,8-PeCDD	2000	895.354	45		25-181	1.58	1.184
13C-1,2,3,4,7,8-HxCDD	2000	865.051	43		32-141	1.27	0.991
13C-1,2,3,6,7,8-HxCDD	2000	927.076	46		28-130	1.30	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	709.298	35		23-140	1.10	1.067
13C-OCDD	4000	1397.526	35		17-157	0.91	1.142
13C-2,3,7,8-TCDF	2000	887.762	44		24-169	0.77	0.993
13C-1,2,3,7,8-PeCDF	2000	1025.745	51		24-185	1.58	1.142
13C-2,3,4,7,8-PeCDF	2000	915.607	46		21-178	1.60	1.174
13C-1,2,3,4,7,8-HxCDF	2000	899.196	45		26-152	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	791.949	40		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	844.035	42		29-147	0.52	1.009
13C-2,3,4,6,7,8-HxCDF	2000	964.639	48		28-136	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	697.258	35		28-143	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1058.428	53		26-138	0.44	1.080
37Cl-2,3,7,8-TCDD	800	544.050	68		35-197	NA	1.021

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate  
**Sample Name:** March 2023 F039  
**Lab Code:** E2300355-001

**Service Request:** E2300355  
**Date Collected:** 04/04/23 15:45  
**Date Received:** 04/11/23 14:50  
**Units:** pg/L  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

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

**Toxicity Equivalency Quotient**

<b>Analyte Name</b>	<b>Result</b>	<b>DL</b>	<b>MRL</b>	<b>Dilution Factor</b>	<b>TEF</b>	<b>TEF - Adjusted Concentration</b>
2,3,7,8-TCDD	ND	8.48	20.8	1	1	
1,2,3,7,8-PeCDD	17.4	5.52	104	1	1	17.4
1,2,3,4,7,8-HxCDD	25.1	3.85	104	1	0.1	2.51
1,2,3,6,7,8-HxCDD	58.7	3.57	104	1	0.1	5.87
1,2,3,7,8,9-HxCDD	36.9	3.53	104	1	0.1	3.69
1,2,3,4,6,7,8-HpCDD	582	14.7	104	1	0.01	5.82
OCDD	2790	24.7	208	1	0.0003	0.837
2,3,7,8-TCDF	55.4	4.78	20.8	1	0.1	5.54
1,2,3,7,8-PeCDF	484	25.9	104	1	0.03	14.5
2,3,4,7,8-PeCDF	410	28.1	104	1	0.3	123
1,2,3,4,7,8-HxCDF	5920	13.1	104	1	0.1	592
1,2,3,6,7,8-HxCDF	2010	14.4	104	1	0.1	201
1,2,3,7,8,9-HxCDF	146	16.9	104	1	0.1	14.6
2,3,4,6,7,8-HxCDF	435	12.4	104	1	0.1	43.5
1,2,3,4,6,7,8-HpCDF	42900	25.0	104	1	0.01	429
1,2,3,4,7,8,9-HpCDF	712	21.3	104	1	0.01	7.12
OCDF	63200	48.8	208	1	0.0003	19.0
<b>Total TEQ</b>						<b>1490</b>

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate  
**Sample Name:** Method Blank  
**Lab Code:** EQ2300198-01

**Service Request:** E2300355  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** pg/L  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 1000mL  
**Data File Name:** P636429  
**ICAL Date:** 03/31/23

**Date Analyzed:** 05/01/23 14:28  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI  
**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Native Analyte Results**

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	5.02	5.02			1
1,2,3,7,8-PeCDD	ND	U	3.23	25.0			1
1,2,3,4,7,8-HxCDD	ND	U	1.26	25.0			1
1,2,3,6,7,8-HxCDD	2.84J		1.22	25.0	1.36	1.000	1
1,2,3,7,8,9-HxCDD	ND	U	1.18	25.0			1
1,2,3,4,6,7,8-HpCDD	10.4JK		1.77	25.0	0.83	1.000	1
OCDD	24.2J		2.46	50.0	0.82	1.000	1
2,3,7,8-TCDF	ND	U	4.74	5.00			1
1,2,3,7,8-PeCDF	ND	U	2.77	25.0			1
2,3,4,7,8-PeCDF	ND	U	2.85	25.0			1
1,2,3,4,7,8-HxCDF	4.50J		1.28	25.0	1.27	1.000	1
1,2,3,6,7,8-HxCDF	ND	U	1.38	25.0			1
1,2,3,7,8,9-HxCDF	ND	U	1.62	25.0			1
2,3,4,6,7,8-HxCDF	2.83JK		1.14	25.0	1.85	1.000	1
1,2,3,4,6,7,8-HpCDF	7.11JK		2.41	25.0	0.68	1.000	1
1,2,3,4,7,8,9-HpCDF	ND	U	2.19	25.0			1
OCDF	15.1JK		5.23	50.0	1.20	1.005	1

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate

**Service Request:** E2300355  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** EQ2300198-01

**Units:** pg/L  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 1000mL

**Date Analyzed:** 05/01/23 14:28  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI  
**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Data File Name:** P636429  
**ICAL Date:** 03/31/23

**Native Analyte Results**

<b>Analyte Name</b>	<b>Result</b>	<b>Q</b>	<b>EDL</b>	<b>MRL</b>	<b>Ion Ratio</b>	<b>RRT</b>	<b>Dilution Factor</b>
Total Tetra-Dioxins	ND	U	5.02	5.02			1
Total Penta-Dioxins	ND	U	3.23	25.0			1
Total Hexa-Dioxins	2.84J		1.22	25.0	1.36		1
Total Hepta-Dioxins	8.70J		1.77	25.0	1.05		1
Total Tetra-Furans	ND	U	4.74	5.00			1
Total Penta-Furans	ND	U	2.81	25.0			1
Total Hexa-Furans	8.45J		1.34	25.0	1.06		1
Total Hepta-Furans	ND	U	2.29	25.0			1

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate

**Service Request:** E2300355  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** EQ2300198-01

**Units:** Percent  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 1000mL

**Date Analyzed:** 05/01/23 14:28  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI  
**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Data File Name:** P636429  
**ICAL Date:** 03/31/23

**Labeled Standard Results**

<b>Labeled Compounds</b>	<b>Spike Conc.(pg)</b>	<b>Conc. Found (pg)</b>	<b>% Rec</b>	<b>Q</b>	<b>Control Limits</b>	<b>Ion Ratio</b>	<b>RRT</b>
13C-2,3,7,8-TCDD	2000	1217.695	61		25-164	0.82	1.021
13C-1,2,3,7,8-PeCDD	2000	1412.169	71		25-181	1.61	1.184
13C-1,2,3,4,7,8-HxCDD	2000	1349.695	67		32-141	1.27	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1464.882	73		28-130	1.31	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1356.326	68		23-140	1.07	1.066
13C-OCDD	4000	3250.474	81		17-157	0.87	1.141
13C-2,3,7,8-TCDF	2000	1145.129	57		24-169	0.81	0.993
13C-1,2,3,7,8-PeCDF	2000	1557.038	78		24-185	1.61	1.142
13C-2,3,4,7,8-PeCDF	2000	1440.622	72		21-178	1.69	1.174
13C-1,2,3,4,7,8-HxCDF	2000	1297.655	65		26-152	0.51	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1191.243	60		26-123	0.51	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1275.822	64		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1487.665	74		28-136	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1300.062	65		28-143	0.43	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	2029.933	101		26-138	0.42	1.079
37Cl-2,3,7,8-TCDD	800	522.142	65		35-197	NA	1.021



## Accuracy & Precision

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



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate

**Service Request:** E2300355  
**Date Analyzed:** 05/01/23  
**Date Extracted:** 04/18/23

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

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

**Units:** pg/L  
**Basis:** NA  
**Analysis Lot:** 802865

**Lab Control Sample**  
**EQ2300198-02**

**Duplicate Lab Control Sample**  
**EQ2300198-03**

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD	1040	1000	104	1060	1000	106	70-140	2	50
1,2,3,4,7,8-HxCDD	934	1000	93	948	1000	95	70-164	1	50
1,2,3,6,7,8-HxCDD	885	1000	88	890	1000	89	76-134	<1	50
1,2,3,7,8,9-HxCDD	906	1000	91	940	1000	94	64-162	4	50
1,2,3,7,8-PeCDD	1020	1000	102	1030	1000	103	70-142	2	50
2,3,7,8-TCDD	179	200	89	181	200	90	67-158	1	50
OCDD	1970	2000	99	2000	2000	100	78-144	1	50
1,2,3,4,6,7,8-HpCDF	1090	1000	109	1050	1000	105	82-122	4	50
1,2,3,4,7,8,9-HpCDF	860	1000	86	876	1000	88	78-138	2	50
1,2,3,4,7,8-HxCDF	944	1000	94	958	1000	96	72-134	2	50
1,2,3,6,7,8-HxCDF	1040	1000	104	1080	1000	108	84-130	4	50
1,2,3,7,8,9-HxCDF	1000	1000	100	1000	1000	100	78-130	<1	50
1,2,3,7,8-PeCDF	900	1000	90	884	1000	88	80-134	2	50
2,3,4,6,7,8-HxCDF	867	1000	87	891	1000	89	70-156	3	50
2,3,4,7,8-PeCDF	973	1000	97	989	1000	99	68-160	2	50
2,3,7,8-TCDF	179	200	90	172	200	86	75-158	4	50
OCDF	2160	2000	108	2100	2000	105	63-170	3	50

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate

**Service Request:** E2300355  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Lab Control Sample  
**Lab Code:** EQ2300198-02

**Units:** pg/L  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 1000mL

**Date Analyzed:** 05/01/23 20:37  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI  
**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Data File Name:** P636436  
**ICAL Date:** 03/31/23

**Native Analyte Results**

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	179		1.98	5.00	0.79	1.001	1
1,2,3,7,8-PeCDD	1020		0.468	25.0	1.51	1.000	1
1,2,3,4,7,8-HxCDD	934		0.264	25.0	1.25	1.000	1
1,2,3,6,7,8-HxCDD	885		0.253	25.0	1.23	1.000	1
1,2,3,7,8,9-HxCDD	906		0.247	25.0	1.26	1.006	1
1,2,3,4,6,7,8-HpCDD	1040		0.674	25.0	1.05	1.000	1
OCDD	1970		5.70	50.0	0.89	1.000	1
2,3,7,8-TCDF	179		0.957	5.00	0.78	1.001	1
1,2,3,7,8-PeCDF	900		6.12	25.0	1.56	1.001	1
2,3,4,7,8-PeCDF	973		5.98	25.0	1.54	1.001	1
1,2,3,4,7,8-HxCDF	944		0.398	25.0	1.22	1.000	1
1,2,3,6,7,8-HxCDF	1040		0.435	25.0	1.21	1.000	1
1,2,3,7,8,9-HxCDF	1000		0.481	25.0	1.23	1.000	1
2,3,4,6,7,8-HxCDF	867		0.362	25.0	1.21	1.000	1
1,2,3,4,6,7,8-HpCDF	1090		2.44	25.0	1.04	1.000	1
1,2,3,4,7,8,9-HpCDF	860		2.33	25.0	1.04	1.000	1
OCDF	2160		3.86	50.0	0.89	1.005	1

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate  
**Sample Name:** Lab Control Sample  
**Lab Code:** EQ2300198-02

**Service Request:** E2300355  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** pg/L  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 1000mL  
**Data File Name:** P636436  
**ICAL Date:** 03/31/23

**Date Analyzed:** 05/01/23 20:37  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI  
**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Native Analyte Results**

<b>Analyte Name</b>	<b>Result</b>	<b>Q</b>	<b>EDL</b>	<b>MRL</b>	<b>Ion Ratio</b>	<b>RRT</b>	<b>Dilution Factor</b>
Total Tetra-Dioxins	179		1.98	5.00	0.79		1
Total Penta-Dioxins	1020		0.468	25.0	1.51		1
Total Hexa-Dioxins	2720		0.254	25.0	1.25		1
Total Hepta-Dioxins	1040		0.674	25.0	1.05		1
Total Tetra-Furans	180		0.957	5.00	0.72		1
Total Penta-Furans	1870		6.05	25.0	1.56		1
Total Hexa-Furans	3850		0.415	25.0	1.22		1
Total Hepta-Furans	1950		2.38	25.0	1.04		1

**ALS Group USA, Corp. dba ALS Environmental**  
Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate  
**Sample Name:** Lab Control Sample  
**Lab Code:** EQ2300198-02

**Service Request:** E2300355  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** Percent  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 1000mL  
**Data File Name:** P636436  
**ICAL Date:** 03/31/23

**Date Analyzed:** 05/01/23 20:37  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI  
**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Labeled Standard Results**

<b>Labeled Compounds</b>	<b>Spike Conc.(pg)</b>	<b>Conc. Found (pg)</b>	<b>% Rec</b>	<b>Q</b>	<b>Control Limits</b>	<b>Ion Ratio</b>	<b>RRT</b>
13C-2,3,7,8-TCDD	2000	1205.029	60		25-164	0.82	1.021
13C-1,2,3,7,8-PeCDD	2000	1574.498	79		25-181	1.61	1.184
13C-1,2,3,4,7,8-HxCDD	2000	1574.510	79		32-141	1.26	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1672.632	84		28-130	1.28	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1353.876	68		23-140	1.06	1.066
13C-OCDD	4000	2866.147	72		17-157	0.90	1.142
13C-2,3,7,8-TCDF	2000	1181.796	59		24-169	0.79	0.993
13C-1,2,3,7,8-PeCDF	2000	1689.590	84		24-185	1.56	1.142
13C-2,3,4,7,8-PeCDF	2000	1635.728	82		21-178	1.55	1.174
13C-1,2,3,4,7,8-HxCDF	2000	1562.085	78		26-152	0.51	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1394.659	70		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1512.608	76		29-147	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1753.986	88		28-136	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1309.547	65		28-143	0.43	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1973.532	99		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	411.460	51		35-197	NA	1.021

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate

**Service Request:** E2300355  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Duplicate Lab Control Sample  
**Lab Code:** EQ2300198-03

**Units:** pg/L  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 1000mL

**Date Analyzed:** 05/01/23 21:27  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI

**Data File Name:** P636437  
**ICAL Date:** 03/31/23

**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Native Analyte Results**

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	181		2.14	5.00	0.79	1.001	1
1,2,3,7,8-PeCDD	1030		0.486	25.0	1.61	1.000	1
1,2,3,4,7,8-HxCDD	948		0.465	25.0	1.25	1.000	1
1,2,3,6,7,8-HxCDD	890		0.428	25.0	1.27	1.000	1
1,2,3,7,8,9-HxCDD	940		0.424	25.0	1.31	1.007	1
1,2,3,4,6,7,8-HpCDD	1060		0.619	25.0	1.02	1.000	1
OCDD	2000		5.02	50.0	0.88	1.000	1
2,3,7,8-TCDF	172		1.62	5.00	0.74	1.001	1
1,2,3,7,8-PeCDF	884		0.667	25.0	1.55	1.001	1
2,3,4,7,8-PeCDF	989		0.712	25.0	1.57	1.000	1
1,2,3,4,7,8-HxCDF	958		0.573	25.0	1.22	1.000	1
1,2,3,6,7,8-HxCDF	1080		0.613	25.0	1.24	1.000	1
1,2,3,7,8,9-HxCDF	1000		0.695	25.0	1.27	1.000	1
2,3,4,6,7,8-HxCDF	891		0.516	25.0	1.22	1.000	1
1,2,3,4,6,7,8-HpCDF	1050		3.52	25.0	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	876		3.55	25.0	1.03	1.000	1
OCDF	2100		5.06	50.0	0.90	1.005	1

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate

**Service Request:** E2300355  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Duplicate Lab Control Sample  
**Lab Code:** EQ2300198-03

**Units:** pg/L  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 1000mL

**Date Analyzed:** 05/01/23 21:27  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI  
**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Data File Name:** P636437  
**ICAL Date:** 03/31/23

**Native Analyte Results**

<b>Analyte Name</b>	<b>Result</b>	<b>Q</b>	<b>EDL</b>	<b>MRL</b>	<b>Ion Ratio</b>	<b>RRT</b>	<b>Dilution Factor</b>
Total Tetra-Dioxins	181		2.14	5.00	0.79		1
Total Penta-Dioxins	1040		0.486	25.0	1.61		1
Total Hexa-Dioxins	2780		0.438	25.0	1.25		1
Total Hepta-Dioxins	1060		0.619	25.0	0.95		1
Total Tetra-Furans	172		1.62	5.00	0.74		1
Total Penta-Furans	1880		0.688	25.0	1.59		1
Total Hexa-Furans	3940		0.592	25.0	1.12		1
Total Hepta-Furans	1930		3.54	25.0	1.03		1

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Report

**Client:** ALS Environmental - Holland (MI)  
**Project:** 23040347  
**Sample Matrix:** Aqueous Leachate

**Service Request:** E2300355  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Duplicate Lab Control Sample  
**Lab Code:** EQ2300198-03

**Units:** Percent  
**Basis:** NA

**Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS**

**Analysis Method:** 1613B  
**Prep Method:** Method Sep Funnel/Jar  
**Sample Amount:** 1000mL

**Date Analyzed:** 05/01/23 21:27  
**Date Extracted:** 4/18/23  
**Instrument Name:** E-HRMS-08  
**GC Column:** DB-5MSUI  
**Blank File Name:** P636429  
**Cal Ver. File Name:** P636426

**Data File Name:** P636437  
**ICAL Date:** 03/31/23

**Labeled Standard Results**

<b>Labeled Compounds</b>	<b>Spike Conc.(pg)</b>	<b>Conc. Found (pg)</b>	<b>% Rec</b>	<b>Q</b>	<b>Control Limits</b>	<b>Ion Ratio</b>	<b>RRT</b>
13C-2,3,7,8-TCDD	2000	1171.186	59		25-164	0.80	1.021
13C-1,2,3,7,8-PeCDD	2000	1406.227	70		25-181	1.56	1.185
13C-1,2,3,4,7,8-HxCDD	2000	1342.473	67		32-141	1.27	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1502.223	75		28-130	1.28	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1245.259	62		23-140	1.03	1.067
13C-OCDD	4000	2774.698	69		17-157	0.90	1.142
13C-2,3,7,8-TCDF	2000	1153.667	58		24-169	0.77	0.994
13C-1,2,3,7,8-PeCDF	2000	1584.249	79		24-185	1.56	1.143
13C-2,3,4,7,8-PeCDF	2000	1450.247	73		21-178	1.58	1.176
13C-1,2,3,4,7,8-HxCDF	2000	1382.110	69		26-152	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1237.226	62		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1343.958	67		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1576.499	79		28-136	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1245.530	62		28-143	0.43	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1774.098	89		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	399.095	50		35-197	NA	1.022





Sample Receipt Checklist

Client Name: **REPULICINDUSTRIAL - ROMULU**

Date/Time Received: **04-Apr-23 21:30**

Work Order: **23040347**

Received by: **DS**

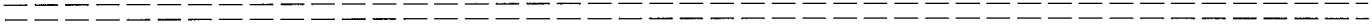
Checklist completed by **Diane Shaw** 05-Apr-23  
eSignature Date

Reviewed by: **Chelsey Cook** 06-Apr-23  
eSignature Date

Matrices: Liquid  
 Carrier name: Courier

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	4.0/5.0 c		IR3
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	4/5/2023 10:59:10 AM		
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:	-		

Login Notes:



Client Contacted: \_\_\_\_\_ Date Contacted: \_\_\_\_\_ Person Contacted: \_\_\_\_\_  
 Contacted By: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments:

CorrectiveAction: