



Sustainability in Action

December 29, 2023

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

Re: RIES Monthly Report – November 2023

Dear Mr. Greenhagen:

Republic Industrial and Energy Solutions, LLC (RIES) submitted the one hundred and nineteenth 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 November of 2023 and as stated on page A-3 of 3 of RIES's two EPA permits, analysis for the F039 waste is required. However, only a portion of the analytical is complete for submission. Specifically, the dioxin waste is not complete and therefore a Preliminary Report is being submitted without the dioxin analysis. Once the Final Report is received, it will be submitted to replace the Preliminary 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.

If you have any questions or comments, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "JCBarta".

John C. Barta
General Manager

cc: Tabetha L. Peebles (Republic Services)
John Frost (Republic Services)

AVERAGE INJECTION RATE

Calculation of Average Injection RateCURRENT REPORTING YEAR 2023CURRENT REPORTING MONTH NovemberDate (month, year) of the first injection into either well at the Citrin Road Facility
November 2013

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
MI-163-1W-C010 , Well #1-12			
Current Month	829,244	0	829,244
Since facility first injected			59,287,531
MI-163-1W-C011, Well #2-12			
Current Month	718,286	0	718,286
Since facility first injected			40,554,224
		Lifetime Combined	99,841,755

Conversion factors

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

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

CalculationsWhole number of months of injection 119

119 lifetime number of months of injection × 43,830 minutes/month
= 5,215,770 minutes of injection

Lifetime combined injected volume 99,841,755 ÷ 5,215,770 minutes of injection
= 19.14 gpm average injection rate

WELL 1 DATA



Injection Well 1, November 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
11/1/2023	91.0	525.7	13.2	13.3	860.1	1,120.0	0.8	7.5	0.0	79.2	567.4	811.7
11/2/2023	84.1	523.7	13.2	13.3	819.0	1,073.9	1.5	10.4	0.0	81.6	524.8	823.8
11/3/2023	75.2	530.0	13.2	13.3	798.2	1,099.0	1.2	7.2	0.0	82.4	529.7	819.1
11/4/2023	114.7	142.9	13.2	13.3	848.8	884.1	6.7	6.7	0.0	0.0	730.3	741.3
11/5/2023	107.5	115.0	13.2	13.2	841.5	849.2	6.7	6.8	0.0	0.0	733.6	735.6
11/6/2023	75.2	529.3	13.2	13.3	775.9	1,049.2	1.3	7.3	0.0	82.5	491.8	742.5
11/7/2023	75.4	561.5	13.2	13.3	792.3	1,103.5	1.3	12.5	0.0	81.7	516.3	826.8
11/8/2023	75.0	538.9	13.2	13.3	769.9	1,033.4	1.2	8.0	0.0	80.9	480.1	735.5
11/9/2023	75.3	445.0	13.2	13.3	792.3	982.4	1.2	7.5	0.0	79.5	498.3	733.9
11/10/2023	76.7	496.6	13.2	13.3	796.2	1,012.0	1.1	6.9	0.0	81.8	506.2	807.4
11/11/2023	113.3	129.7	13.2	13.3	804.6	845.3	6.7	6.8	0.0	0.0	691.1	716.7
11/12/2023	110.2	113.6	13.1	13.2	792.7	805.1	6.8	6.8	0.0	0.0	682.2	692.0
11/13/2023	81.8	554.3	13.1	13.3	734.9	982.8	1.5	7.8	0.0	83.0	427.0	682.9
11/14/2023	75.7	762.6	13.2	13.3	718.8	1,066.6	1.5	9.5	0.0	80.9	288.3	677.7
11/15/2023	75.0	685.4	13.2	13.3	738.6	1,038.6	1.5	7.3	0.0	80.3	352.8	729.0
11/16/2023	75.4	670.2	13.2	13.3	724.0	1,035.6	1.1	7.2	0.0	79.9	365.5	696.5
11/17/2023	84.4	658.3	13.2	13.3	748.6	1,023.1	1.3	7.6	0.0	78.0	364.6	670.8
11/18/2023	122.8	159.8	13.2	13.2	752.0	798.8	7.4	7.6	0.0	0.0	624.1	639.1
11/19/2023	111.5	122.8	13.1	13.2	743.5	752.7	7.4	7.4	0.0	0.0	628.8	632.7
11/20/2023	75.0	615.6	13.1	13.2	733.1	958.9	1.7	7.7	0.0	79.2	343.0	670.9
11/21/2023	75.6	506.5	13.1	13.2	703.8	901.9	0.0	7.3	0.0	78.5	393.9	640.6
11/22/2023	76.6	621.5	13.2	13.2	637.2	955.2	0.5	7.2	0.0	78.8	329.2	628.9
11/23/2023	115.3	143.1	13.2	13.2	726.1	744.2	4.9	5.9	0.0	0.0	600.9	611.5
11/24/2023	108.8	115.6	13.1	13.2	718.4	727.0	4.0	4.9	0.0	0.0	609.4	611.7
11/25/2023	107.4	626.9	13.1	13.2	707.2	917.9	3.8	7.6	0.0	67.1	288.0	610.4
11/26/2023	114.3	598.2	13.1	13.2	641.9	870.7	5.6	7.7	0.0	68.7	233.8	594.6
11/27/2023	75.7	491.2	13.1	13.2	608.8	850.1	1.1	6.8	0.0	69.7	311.6	583.7
11/28/2023	75.7	561.8	13.1	13.1	547.8	786.9	1.2	8.0	0.0	68.5	215.5	592.7
11/29/2023	75.0	568.4	13.1	13.2	598.2	810.4	1.2	10.0	0.0	68.8	210.6	560.9
11/30/2023	77.0	540.8	13.1	13.3	576.0	797.9	0.3	7.4	0.0	85.7	230.8	544.0

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

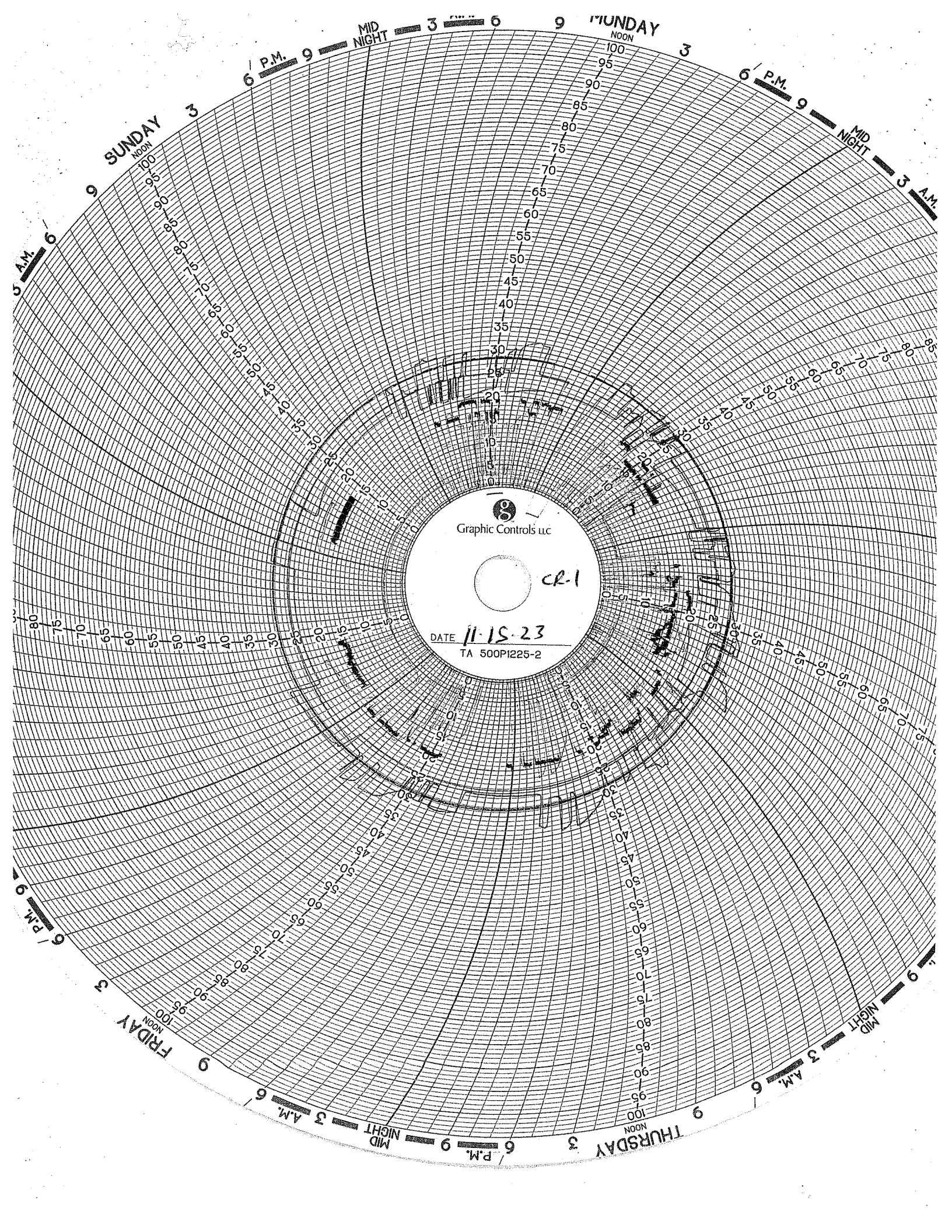
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

channel *tm*

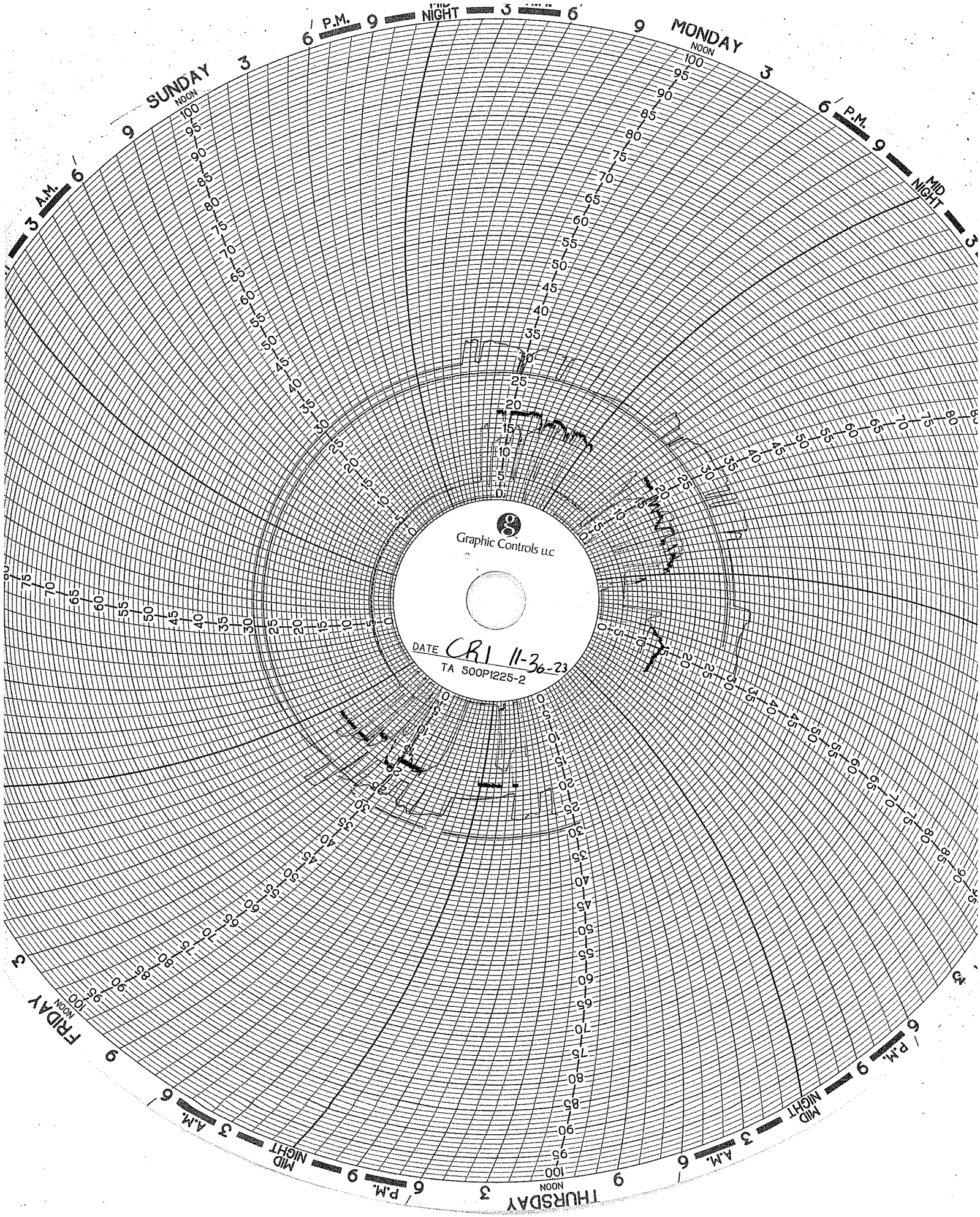
Black Pen — Temperature (chart value x 0)



Graphic Controls LLC

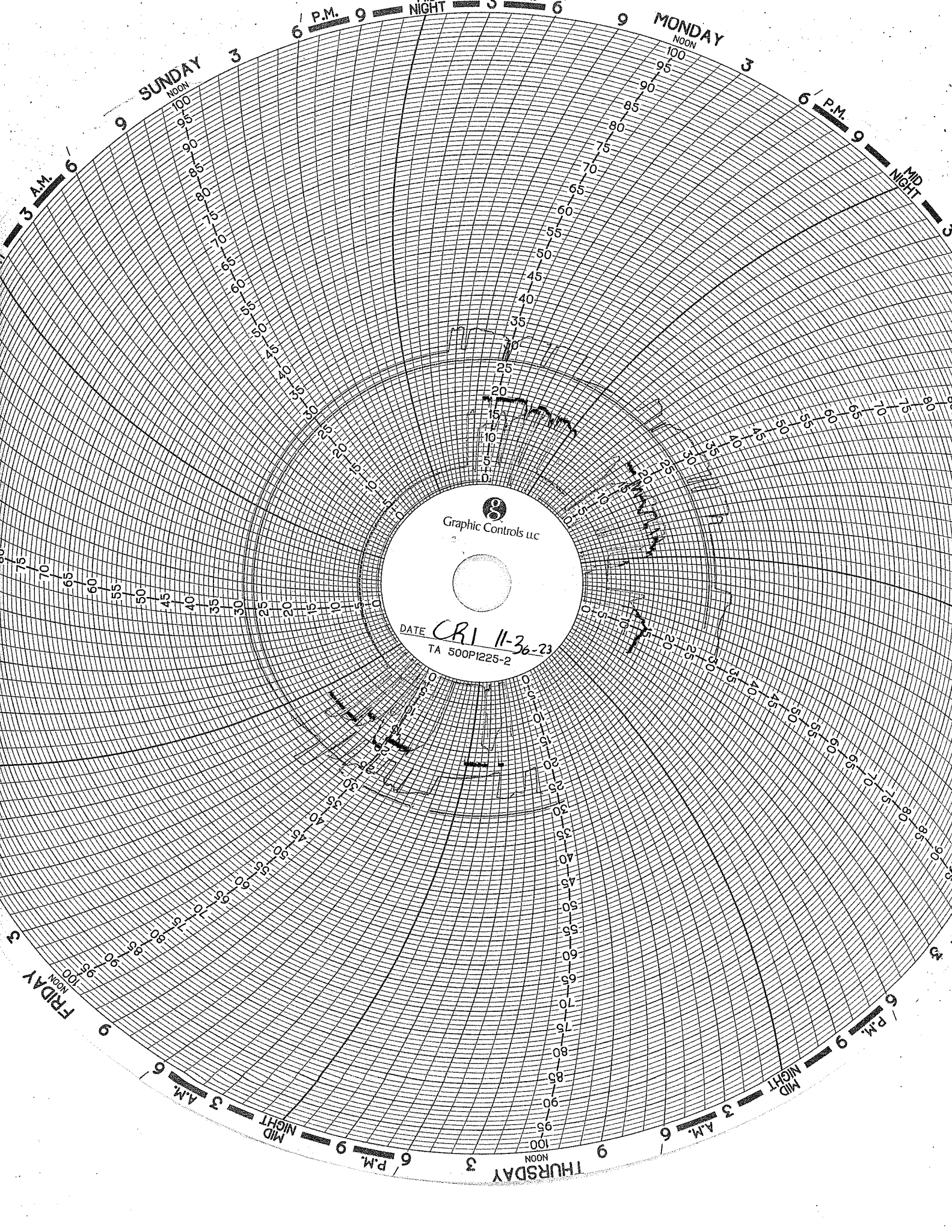
CR-1

DATE 11-15-23
TA 500PI225-2



Graphic Controls LLC

DATE CR1 11-36-23
TA 500P1225-2



WELL 2 DATA



Injection Well 2, November 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
11/1/2023	115.0	545.8	29.2	29.2	905.6	1,162.6	0.7	7.6	7.4	70.9	570.5	817.7
11/2/2023	132.1	550.9	29.2	29.2	876.9	1,125.1	1.5	10.5	5.7	71.7	545.7	815.2
11/3/2023	78.3	530.5	29.2	29.3	853.5	1,159.3	1.2	7.2	5.1	70.8	575.4	842.3
11/4/2023	113.7	141.9	29.2	29.3	921.0	936.7	6.7	6.7	0.0	0.0	793.3	809.5
11/5/2023	106.0	114.0	29.2	29.3	911.8	921.2	6.7	6.8	0.0	0.0	804.7	807.6
11/6/2023	89.2	558.9	29.2	29.3	849.1	1,131.0	1.2	7.3	15.9	71.0	556.0	806.0
11/7/2023	77.3	592.0	29.3	29.4	866.8	1,181.1	1.2	12.5	5.1	69.7	564.9	850.8
11/8/2023	75.0	541.0	29.2	29.3	863.1	1,121.3	1.2	8.0	5.5	70.4	538.2	849.8
11/9/2023	75.2	441.5	29.2	29.3	866.4	1,064.8	1.2	7.5	8.8	70.0	573.2	817.3
11/10/2023	75.2	517.5	29.2	29.3	889.9	1,124.0	1.1	6.9	7.4	70.5	586.1	878.2
11/11/2023	117.7	151.5	29.2	29.3	912.7	940.4	6.7	6.8	0.0	0.0	788.9	797.1
11/12/2023	111.2	117.7	29.1	29.2	905.9	913.1	6.8	6.8	0.0	0.0	794.4	796.1
11/13/2023	75.3	589.2	29.1	29.3	843.2	1,108.6	1.5	7.8	5.3	69.6	519.2	795.3
11/14/2023	99.2	799.3	29.2	29.3	849.1	1,208.8	1.5	9.5	5.1	70.9	409.3	779.2
11/15/2023	81.8	684.7	29.2	29.3	878.1	1,158.7	1.5	7.3	5.5	69.6	449.9	845.3
11/16/2023	75.0	703.2	29.2	29.3	863.8	1,178.2	1.1	7.2	7.7	70.2	475.0	799.9
11/17/2023	75.7	690.7	29.3	29.3	889.8	1,163.3	1.3	7.6	10.6	69.6	472.6	822.8
11/18/2023	121.2	153.6	29.1	29.3	908.3	923.3	7.4	7.6	0.0	0.0	769.5	787.3
11/19/2023	110.4	121.5	29.1	29.1	900.8	908.6	7.4	7.4	0.0	0.0	786.8	790.7
11/20/2023	88.7	652.4	29.1	29.2	863.9	1,120.9	1.7	7.7	5.3	69.1	465.3	802.3
11/21/2023	80.1	542.7	29.1	29.2	865.1	1,068.3	0.0	7.3	5.1	69.2	513.6	789.0
11/22/2023	96.9	661.7	29.1	29.2	816.7	1,129.3	0.5	7.2	8.2	69.7	457.1	768.8
11/23/2023	126.3	183.8	29.1	29.2	897.8	912.1	4.9	5.9	0.0	0.0	728.1	771.7
11/24/2023	114.2	126.6	29.0	29.1	894.0	898.1	4.0	4.9	0.0	0.0	771.4	780.1
11/25/2023	111.9	668.5	28.9	29.1	889.5	1,107.0	3.8	7.6	39.4	59.9	436.6	781.6
11/26/2023	121.7	644.7	29.0	29.1	837.5	1,062.8	5.8	7.7	6.4	61.2	376.1	773.8
11/27/2023	75.2	500.6	29.0	29.1	798.1	1,040.6	1.1	6.8	6.3	61.3	464.0	758.8
11/28/2023	75.0	612.9	29.0	29.1	742.8	989.7	1.2	8.0	5.7	61.0	364.9	788.6
11/29/2023	75.0	618.3	29.0	29.1	800.5	1,004.7	1.2	10.0	5.0	60.9	359.4	733.9
11/30/2023	75.3	602.6	29.1	29.3	786.1	999.2	0.3	7.4	5.2	77.7	369.6	734.8

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

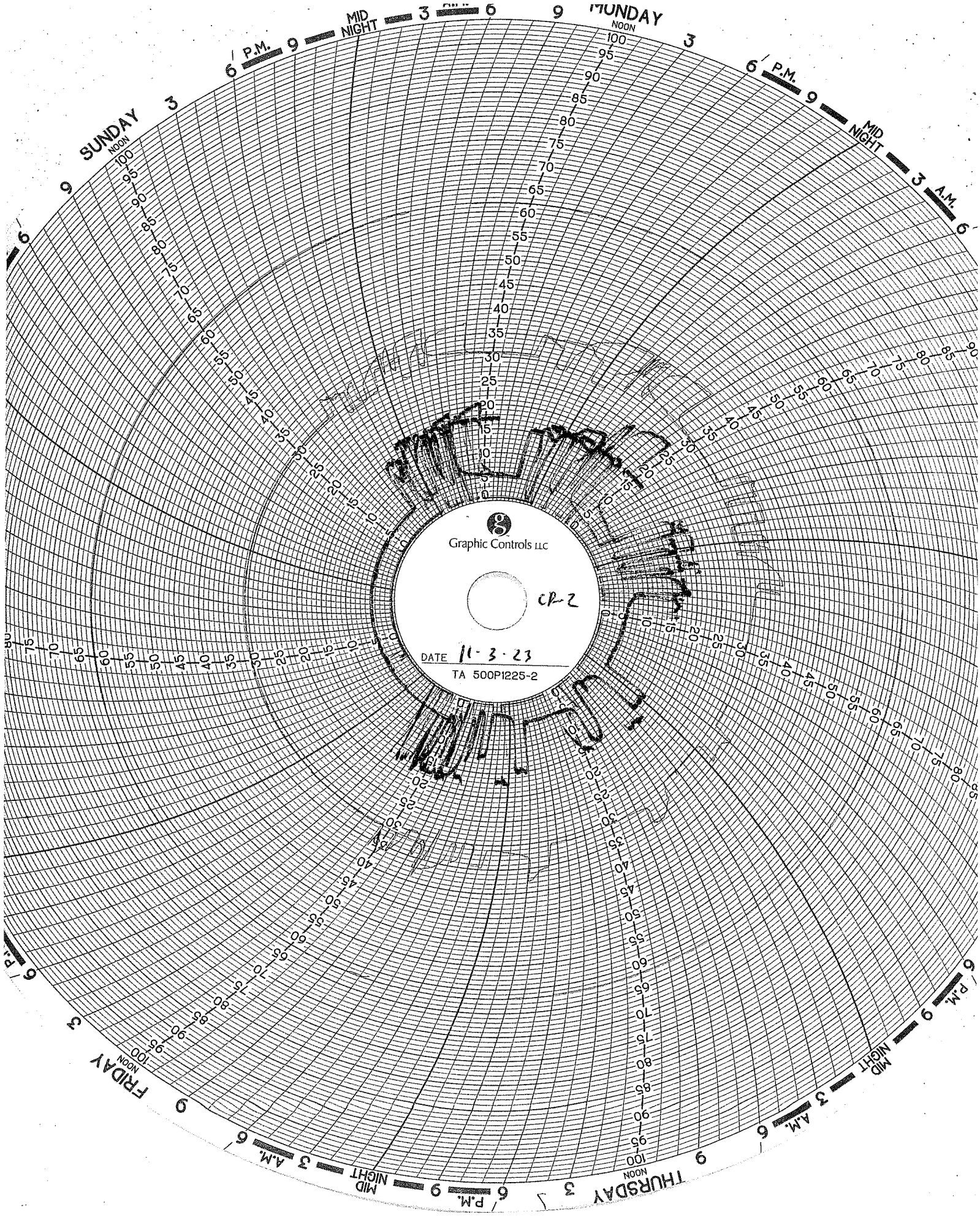
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

channel #4

Black Pen — Temperature (chart value x 0)



Graphic Controls LLC

CP-2

DATE 11-3-23

TA 500P1225-2

SUNDAY
NOON

MONDAY
NOON

TUESDAY
NOON

WEDNESDAY
NOON

THURSDAY
NOON

FRIDAY
NOON

6 P.M.

6 P.M.

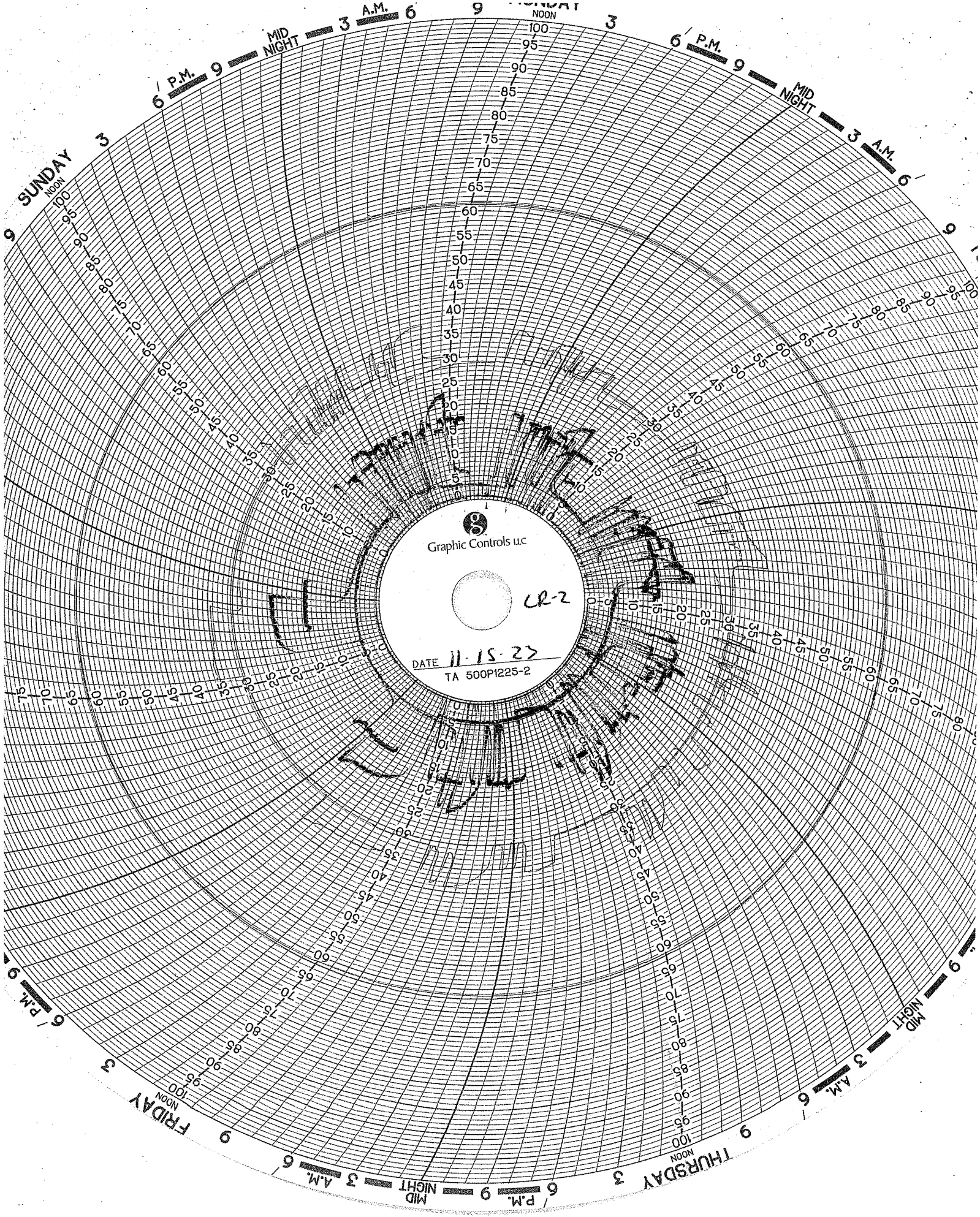
3 A.M.

6 A.M.

6 A.M.

MID NIGHT

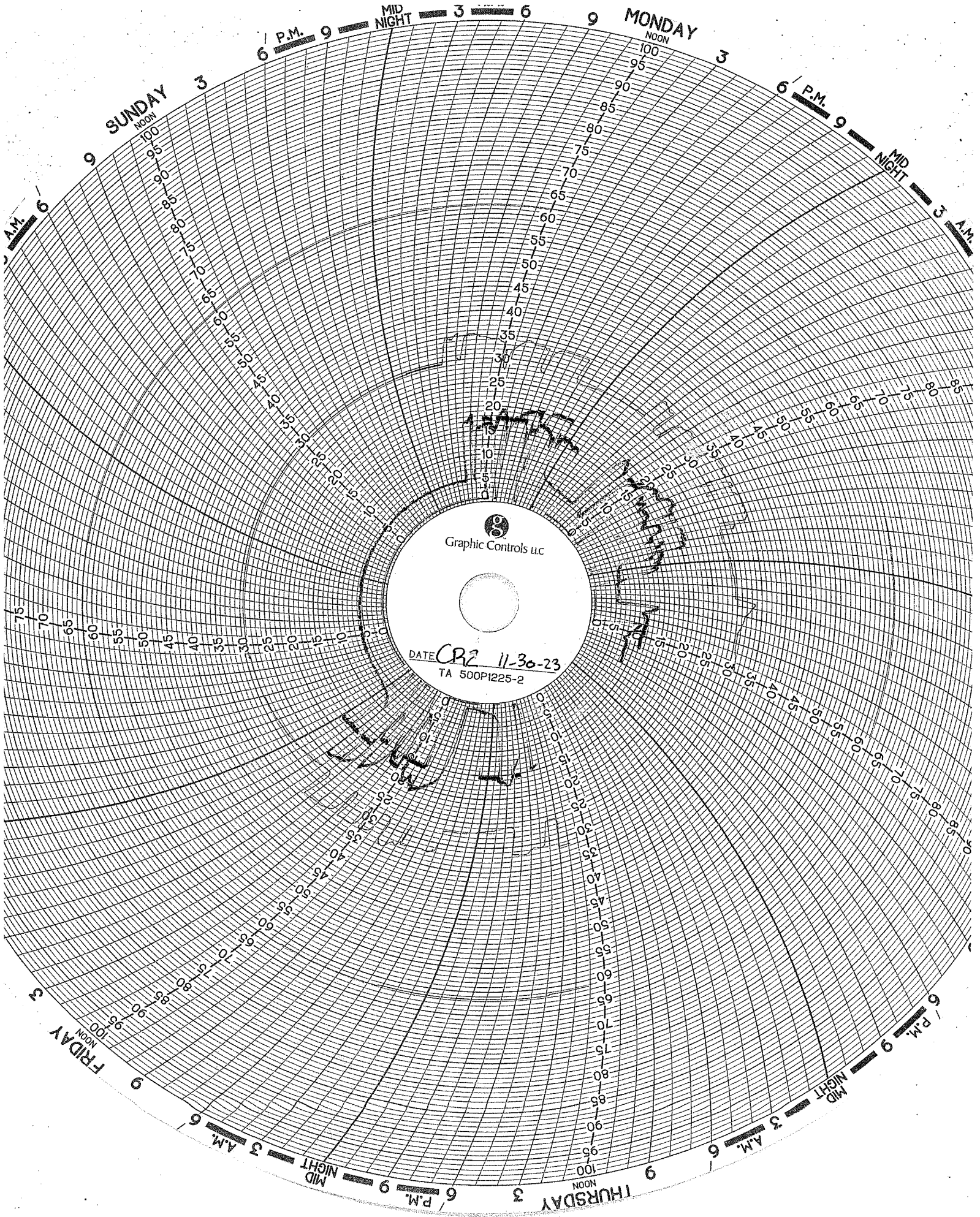
MID NIGHT



Graphic Controls LLC

CR-2

DATE 11-15-23
TA 500P1225-2



Graphic Controls LLC

DATE CR2 11-30-23
TA 500P1225-2

Circle Chart Index

Republic Industrial Energy Solutions, LLC 28470 Citrin Drive Romulus, MI 48174

Chart Recorder #1

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

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Channel #3

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

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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

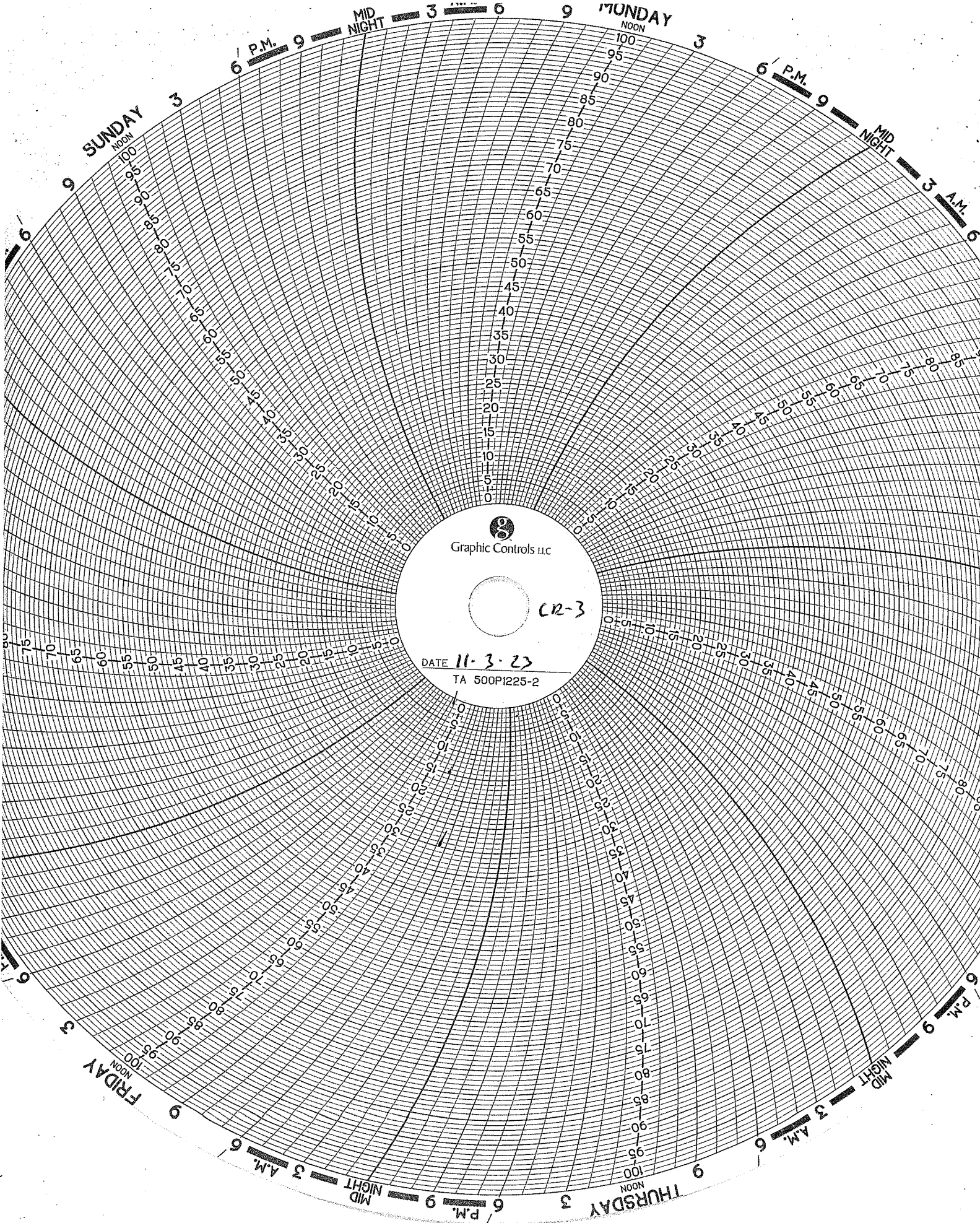
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

channel *tn*

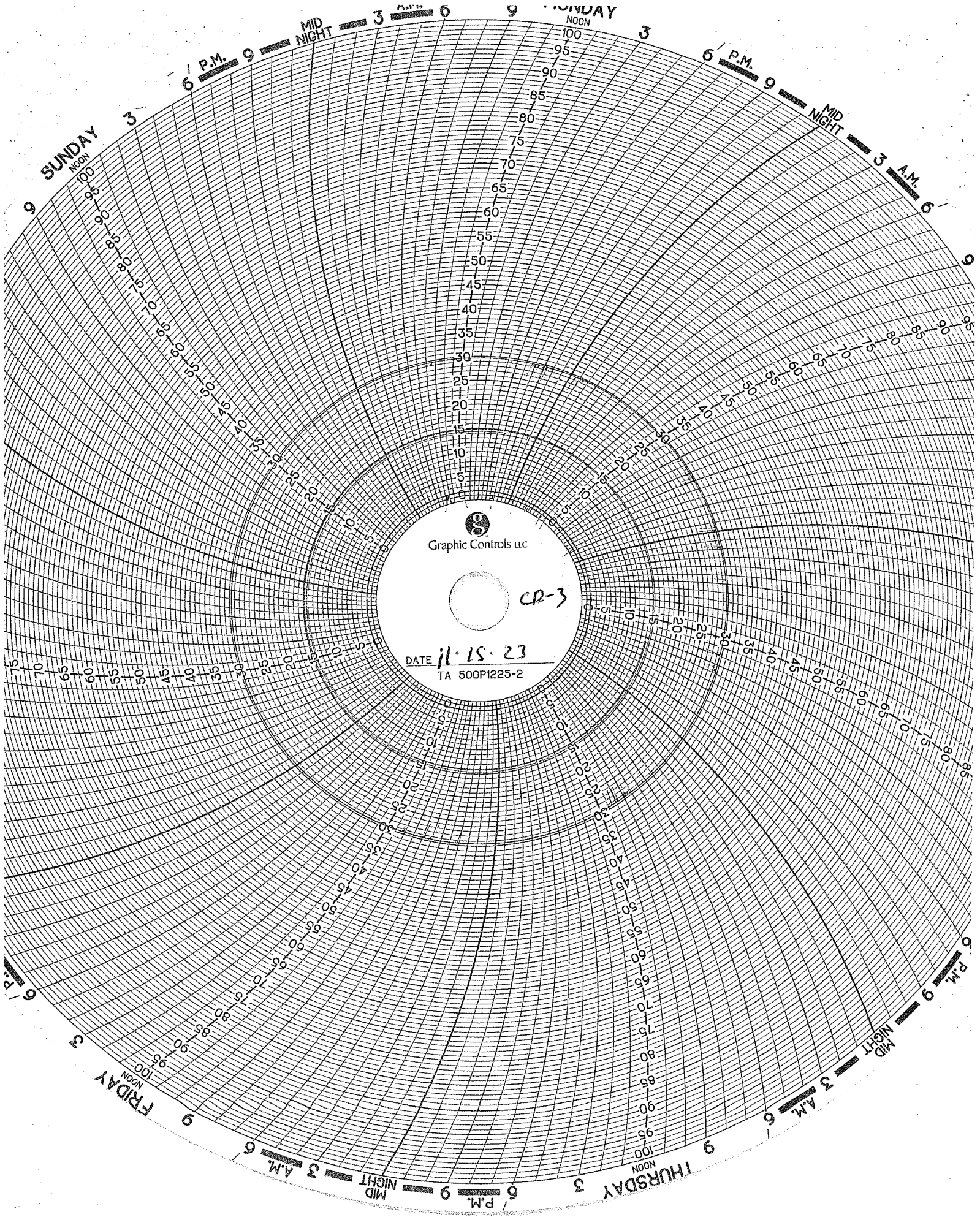
Black Pen — Temperature (chart value x 0)



Graphic Controls LLC

C12-3

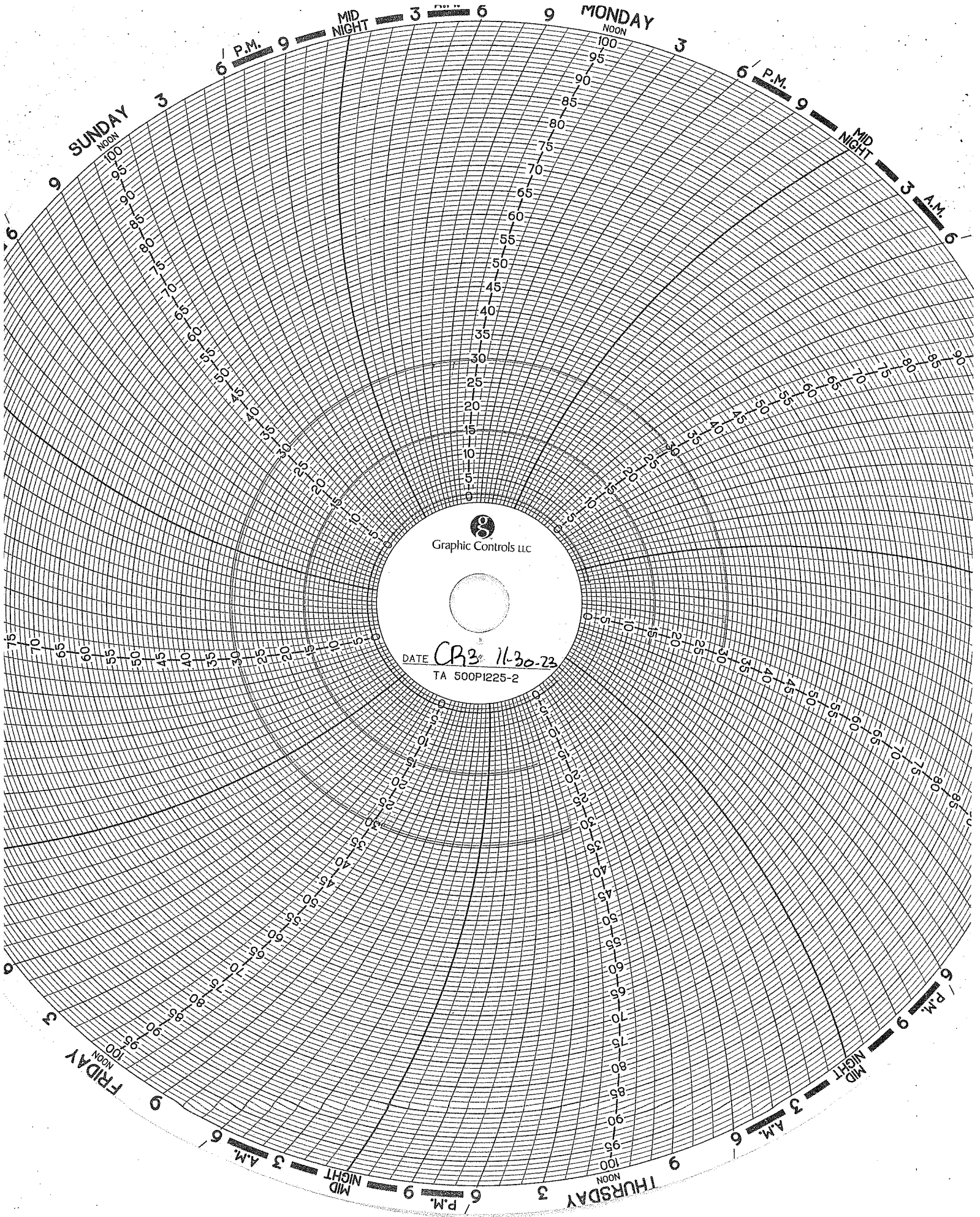
DATE 11-3-23
TA 500P1225-2



Graphic Controls Inc

CR-3

DATE 11-15-23
TA 500P1225-2



Graphic Controls LLC

DATE *CR3 11-30-23*
TA 500P1225-2

CORROSION MONITORING

**CORROSION MONITORING PLAN
COUPON SUMMARY**

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Fiberglass)	Comments
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 g	7.196 g	
7/11/2014	13.323 g	10.304 g	7.196 g	
8/12/2014	13.328 g	10.045 g	7.182 g	
9/17/2014	13.321 g	9.997 g	7.090 g	
10/30/2014	13.321 g	9.387 g	7.075 g	
11/21/2014	13.320 g	9.386 g	7.069 g	
12/19/2014	13.321 g	9.315 g	7.084 g	
1/12/2015	13.321 g	9.289 g	7.063 g	New hastelloy coupon
2/23/2015	13.339 g	9.286 g	7.005 g	
3/31/2015	13.339 g	9.286 g	7.005 g	
4/27/2015	13.335 g	9.130 g	6.852 g	
5/21/2015	13.336 g	9.124 g	6.809 g	
6/12/2015	13.334 g	9.126 g	6.819 g	
7/27/2015	13.337 g	9.127 g	6.818 g	
8/26/2015	13.337 g	9.022 g	6.780 g	
9/21/2015	13.336 g	8.987 g	6.792 g	
10/19/2015	13.335 g	8.985 g	6.797 g	
11/16/2015	13.334 g	8.982 g	6.788 g	
12/17/2015	13.334 g	8.933 g	6.791 g	
1/29/2016	13.334 g	8.931 g	6.788 g	
2/16/2016	13.332 g	8.799 g	6.757 g	
3/31/2016	13.339 g	9.286 g	7.005 g	
4/22/2016	13.333 g	8.590 g	6.744 g	
5/31/2015	13.334 g	6.084 g	6.784 g	
6/30/2016	13.328 g	10.942 g	6.793 g	
8/3/2016	13.326 g	10.529 g	6.743 g	
8/29/2016	13.325 g	10.020 g	6.723 g	
10/27/2016	13.325 g	8.765 g	6.708 g	
11/29/2016	13.327 g	8.571 g	6.740 g	
12/12/2016	13.323 g	8.223 g	6.717 g	New Fiberglass coupon
1/3/2017	13.325 g	8.059 g	6.712 g	
2/28/2017	13.324 g	7.634 g	6.727 g	
3/24/2017	13.325 g	7.370 g	6.732 g	
4/28/2017	13.325 g	6.736 g	6.736 g	
5/11/2017	13.323 g	7.352 g	6.689 g	
6/12/2017	13.323 g	7.357 g	6.689 g	
7/5/2017	13.323 g	7.355 g	6.689 g	
8/30/2017	13.324 g	7.353 g	18.105 g	
9/28/2017	13.325 g	7.352 g	18.060 g	
10/11/2017	13.324 g	7.350 g	18.038 g	
11/16/2017	13.325 g	7.363 g	18.047 g	
12/12/2017	13.326 g	7.308 g	18.307 g	
1/29/2018	13.326 g	10.930 g	18.027 g	
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	

**CORROSION MONITORING PLAN
COUPON SUMMARY**

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Fiberglass)	Comments
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	
3/3/9/20	13.326 g	10.842 g	18.034 g	
4/9/2020	13.328 g	10.839 g	18.037 g	
5/12/2020	13.322 g	10.830 g	18.035 g	
6/16/2020	13.316 g	10.771 g	18.009 g	
7/16/2020	13.308 g	10.560 g	17.843 g	
8/25/2020	13.310 g	10.214 g	17.773 g	
9/24/2020	13.289 g	9.796 g	17.656 g	
10/19/2020	13.282g	9.737g	17.621g	
11/5/2020	13.280g	9.728g	17.600g	
12/3/2020	13.281g	9.730g	17.689g	
2/10/2021	13.284g	9.728g	17.683g	
3/9/2021	13.290g	9.733g	17.585g	
4/13/2021	13.288g	9.730g	17.649g	
5/18/2021	13.282g	9.691g	17.543g	
6/17/2021	13.279g	9.639g	17.546g	
7/19/2021	13.278g	9.480g	17.507g	
8/3/2021	13.278g	9.437g	17.467g	
9/14/2021	13.277g	9.392g	17.467g	
10/11/2021	13.277g	9.359g	17.465g	
11/3/2021	13.277g	9.350g	17.273g	
12/15/2021	13.276g	9.351g	17.256g	
1/17/2022	13.276g	9.351g	17.256g	
2/15/2022	13.276g	9.347g	16.965g	
3/18/2022	13.281g	9.368g	17.246g	
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	

Well 1 workover new well

**CORROSION MONITORING PLAN
COUPON SUMMARY**

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Fiberglass)	Comments
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	9.130	15.728	
3/17/2023	13.280	9.138	15.779	
4/25/2023	13.275	9.130	15.726	
5/23/2023	13.276	9.131	15.700	
6/19/2023	13.275	9.088	15.647	
7/20/2023	13.275	9.009	15.607	
8/18/2023	13.274	8.999	15.495	
9/25/2023	13.273	8.983	15.480	
10/12/2023	13.275	8.984	15.425	
11/15/2023	13.271	8.981	15.349	

COOROSION MONITORING COUPONS VISUAL DESCRIPTION

November 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 wastestreams.

Hastelloy Coupon

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

Stainless Steel Coupon

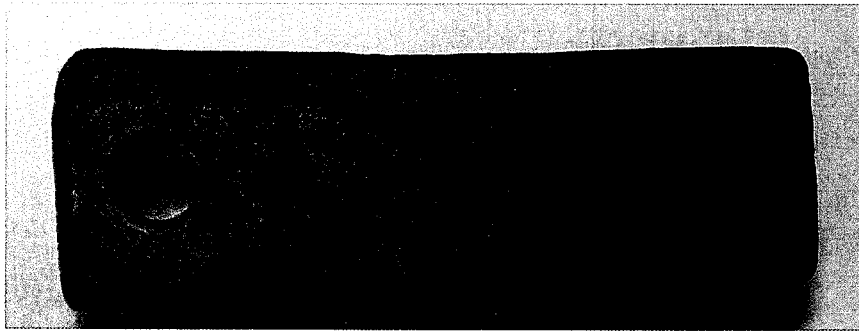
This coupon is identified as 316L / C1563. The coupon is silver in color with a lightly sandblasted texture. It is clean and has several dozen small pits on both sides of the coupon. Near the bottom of the coupon there are approximately two areas with the dimensions of 1/8 inch x 1/16 of corrosion.

There is a slight effect to this coupon.

Fiberglass

Weight: 15.349

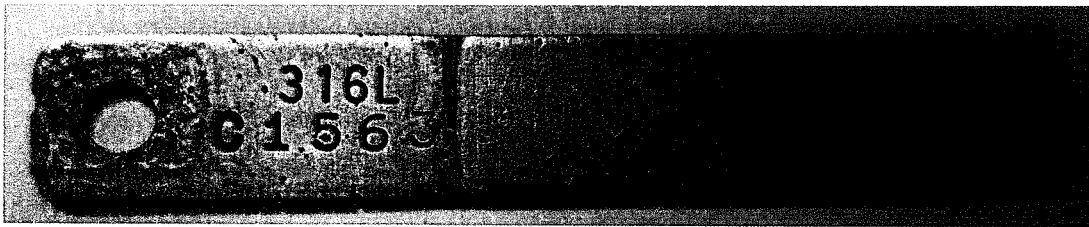
Date: 11/15/2023



316L/C1563

Weight: 8.981

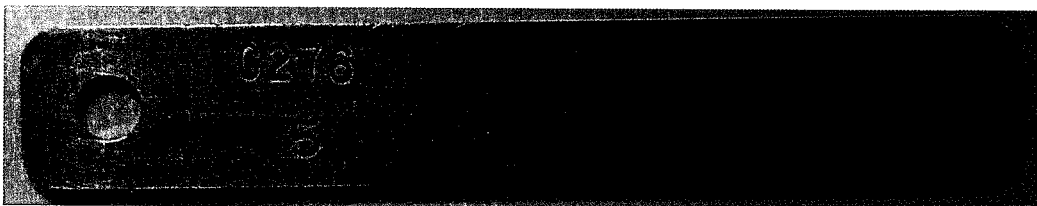
Date: 11/15/2023



C276/5

Weight: 13.271

Date: 11/15/2023



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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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.

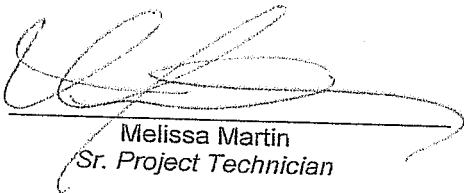
BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

Results

Barcol Hardness, Instant

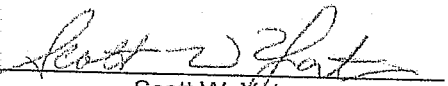
96

Prepared By:


Melissa Martin
Sr. Project Technician

tc

Approved By:


Scott W. Yates
Plastics Testing Assistant Manager



Progress Through Innovation, Technology and Customer Satisfaction

December 12, 2016

TEST REPORT

PN 132662
PO

PLASTICS TESTING DEPARTMENT

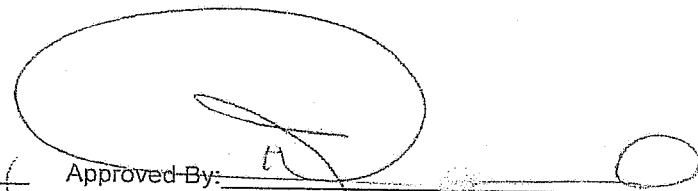
Prepared For:

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

Prepared By:


Melissa Martin
Senior Project Technician

Approved By:


Jim Drummond
Physical Testing, Manager

Rev 041916



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



December 12, 2016

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 132662

SUBJECT: Barcol Hardness on one (1) material.

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

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

RESULTS

Barcol Hardness, Instant

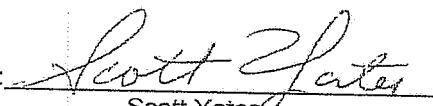
96

Prepared By:



Melissa Martin
Senior Project Technician

Approved By:



Scott Yates
Plastics Testing, Assistant Manager

wk

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Progress Through Innovation, Technology and Customer Satisfaction

December 13, 2017

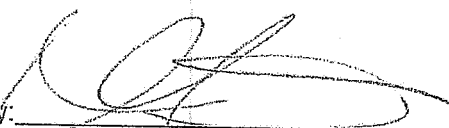
TEST REPORT

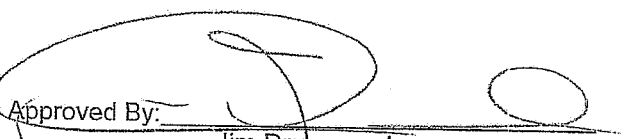
PN 139140
PO#

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.

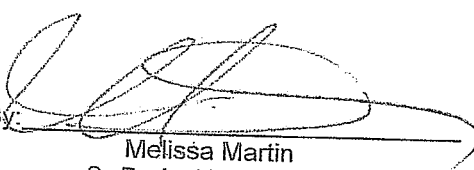
BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

Results

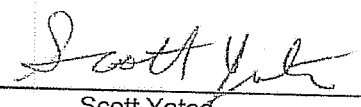
Barcol Hardness, Instant

96

Prepared By:


Melissa Martin
Sr Project Technician

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.

GHESEQUIERE 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:

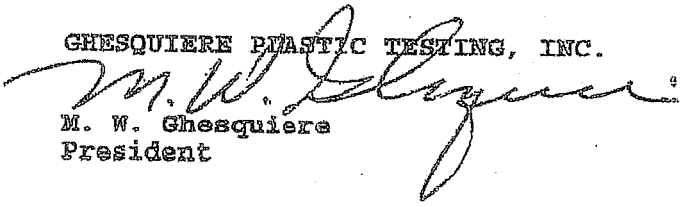
The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHESEQUIERE PLASTIC TESTING, INC.


M. W. Ghesquiere
President

MWG/kni

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TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

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

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

Report #1402-78036
Performed for:
Environmental Geo-Technologies
26470 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

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TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

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

WORK PERFORMED:

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

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

RESULTS:

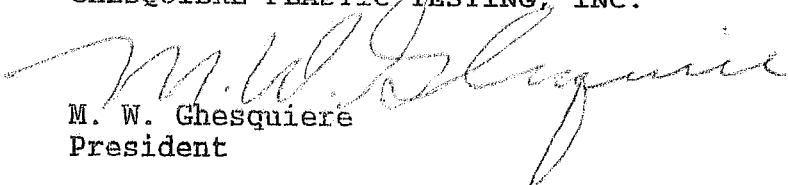
The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm

October 2, 2014

TEST REPORT

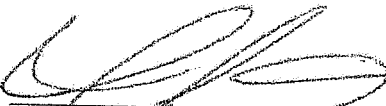
PN 118325
PO Attn: John Frost

PLASTICS TESTING DEPARTMENT


Prepared For:

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

Prepared By:


Melissa Martin
Sr. Project Technician

Approved By:


Jim Drummond
Physical & Plastics Testing, Manager



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Testing. Development. Problem Solving.

October 2, 2014

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN118325

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

RECEIVED: One small section identified as: Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a

Results

Barcol Hardness, Instant

97

Prepared By: _____

Melisee Martin
Sr. Project Technician

Approved By: _____

Scott W. Yates
Scott W. Yates
Plastics Testing Assistant Manager

sf

www.ardl.com

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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
	Overall Average:			60

Tested By: 
(signature)

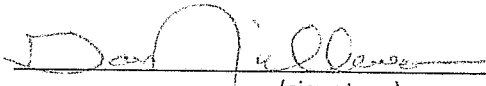
Gary Nicholson
(print or type name)

Date: 01/12/2021

BARCOL HARDNESS REPORT

Customer: Republic Industrial and Energy Solutions, LLC
Component Tested: Test Coupon
PO Number: 10159792 **Job Number:** 3556
Calibration: **Disc:** 43 - 48 **Actual Reading:** 45

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

Tested By: 
(signature)

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

BARCOL HARDNESS REPORT

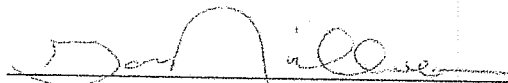
Customer: Republic Industrial and Energy Solutions

Component Tested: Fiberglass Coupon

PO Number: Credit Card Job Number: 3734

Calibration: Disc: 43 - 48 Actual Reading: 45

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

Tested By: 
(signature)

Gary Nicholson
(print or type name)

Date: 08/23/2022

MAINTENANCE

UIC Monthly Maintenance Log

No Maintenance this month

INJECTION FINGERPRINTS

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 30 / 23
Receiving ID#	RI1302306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	1911
Time out	
Received by	U.S.W.
Sampled by	P.C.W.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.8
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	LEAD
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.7
Conductivity	>200
% Solids	8.78
Turbidity	Yes No
Color	TAN
TSS (%)	<0.1
Radiation Screen (as needed)	None
Lab Signature/Initials	U.S.W.

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 30 / 23
Receiving ID#	RI1302307
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	2140
Time out	
Received by	
Sampled by	C.A.C.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.08
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	LEAD
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.4
Conductivity	133.7
% Solids	4.96
Turbidity	Yes No
Color	9220.5h
TSS (%)	2.5
Radiation Screen (as needed)	None
Lab Signature/Initials	C.A.C.

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 30 / 23
Receiving ID#	11302304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Generator
Client	
Transporter	
Time in	12:10
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	> 140
Flash Point (F)	1.03
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.2
Conductivity	165.95
% Solids	6.175
Turbidity	Yes No
Color	
TSS (%)	6.9
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 30 / 23
Receiving ID#	11302305
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) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	> 140
Flash Point (F)	1.07
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.7
Conductivity	234.9
% Solids	5.54
Turbidity	Yes No
Color	1AV
TSS (%)	< 0.1
Radiation Screen (as needed)	n/A
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 30 / 23
Receiving ID#	11302302
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	8:50
Time out	
Received by	<i>J. Smith</i>
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	2110
Flash Point (F)	142
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.7
Conductivity	1281 uS
% Solids	4.45
Turbidity	Yes No
Color	
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Smith</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 30 / 23
Receiving ID#	11302303
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	10:30
Time out	
Received by	<i>J. Smith</i>
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	2110
Flash Point (F)	142
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.8
Conductivity	941 uS
% Solids	3.39
Turbidity	Yes No
Color	
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Smith</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 29 / 23
Receiving ID#	211292324
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	22:05
Time out	
Received by	
Sampled by	Daulton M

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.81
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.6
Conductivity	54.3
% Solids	1.05%
Turbidity	Yes No
Color	
TSS (%)	< 0.1%
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 30 / 23
Receiving ID#	211302301
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	6:45
Time out	
Received by	<i>[Signature]</i>
Sampled by	J. Ash

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	7.48
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.7
Conductivity	49.0
% Solids	2.08
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/29/23
Receiving ID#	1129202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	14.10
Time out	
Received by	JMA
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	4.85
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.10
Physical Description	Light grey
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.3
Conductivity	85.1
% Solids	3.72%
Turbidity	Yes No
Color	Light grey
TSS (%)	0.1
Radiation Screen (as needed)	None
Lab Signature/Initials	JMA

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/29/23
Receiving ID#	1129203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	20.45
Time out	
Received by	JMA
Sampled by	JMA

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.79
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.10
Physical Description	Light grey
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.1
Conductivity	60.6
% Solids	2.07%
Turbidity	Yes No
Color	Light grey
TSS (%)	0.1
Radiation Screen (as needed)	None
Lab Signature/Initials	JMA

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 28 / 23
Receiving ID#	II11282303
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	Generator
Client	Transporter
Time in	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.)	6.62
Cyanides? (mg/L)	
Sulfides? (ppm)?	1.02
Specific Gravity	1.02
Physical Description	Clear
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.1
Conductivity	50.0
% Solids	1.85%
Turbidity	Yes No
Color	6.2
TSS (%)	< 0.1
Radiation Screen (as needed)	None
Lab Signature/Initials	Jones

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 19 / 23
Receiving ID#	II11292301
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	Generator
Client	Transporter
Time in	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.)	6.95
Cyanides? (mg/L)	
Sulfides? (ppm)?	1.10
Specific Gravity	
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.9
Conductivity	> 10,000
% Solids	8.27
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	Jones

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 28 / 23
Receiving ID#	I1282301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	
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.)	1.85
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.8
Conductivity	77.8
% Solids	37070
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 28 / 23
Receiving ID#	I1282301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	17:30
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.)	6.78
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.4
Conductivity	47.9
% Solids	305%
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/27/23
Receiving ID#	111272357
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1030
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)?	>140
Flash Point (F)	111
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	1.04
Specific Gravity	
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.1
Conductivity	2200
% Solids	1.88
Turbidity	Yes No
Color	
TSS (%)	0.70
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

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FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/27/23
Receiving ID#	111272357
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	21:39
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)?	>140
Flash Point (F)	1.57
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	1.04
Specific Gravity	
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.9
Conductivity	90.5
% Solids	2.73
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 26 / 23
Receiving ID#	11262304
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:36
Time out	
Received by	A. Walsh
Sampled by	A. Walsh

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (GC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.51
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.3
Conductivity	49.7
% Solids	1.63
Turbidity	Yes No
Color	
TSS (%)	LO
Radiation Screen (as needed)	
Lab Signature/Initials	A. Walsh

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 27 / 23
Receiving ID#	11272301
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:53
Time out	
Received by	A. Walsh
Sampled by	A. Walsh

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (GC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	11.5
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.3
Conductivity	> 200
% Solids	8.88
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Walsh

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FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 26 / 23
Receiving ID#	IL1262302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	
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)?	2140
Flash Point (F)	638
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	1.02
Specific Gravity	
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.8
Conductivity	50.1
% Solids	2170
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 26 / 23
Receiving ID#	IL1262303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	10:39
Time out	
Received by	A. Wierke
Sampled by	A. Wierke

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	7140
Flash Point (F)	665
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.4
Conductivity	47.0
% Solids	1.73
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Wierke

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 25 / 23
Receiving ID#	111252304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	>140
Flash Point (F)	686
pH (S.U.)	
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	49.4
% Solids	3.42%
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

Receiving & Departure Approval Form

REC04-01 - Page 1

Revision 6
1/20/20

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 26 / 23
Receiving ID#	111262301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	>140
Flash Point (F)	712
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.6
Conductivity	45.5
% Solids	1.25%
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

Receiving & Departure Approval Form

REC04-01 - Page 1

Revision 6
1/20/20

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 25 / 23
Receiving ID#	I112523072
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:07 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)	2140
pH (S.U.)	6.24
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.8
Conductivity	491.5
% Solids	1.91%
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 25 / 23
Receiving ID#	I11252303
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	5.91
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.8
Conductivity	53.5
% Solids	2.67%
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 28 / 23
Receiving ID#	I11252306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	3:20
Time out	
Received by	
Sampled by	Ustru

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	7.69
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	L 30-40
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.3
Conductivity	45.8
% Solids	1.18
Turbidity	Yes No
Color	trans
TSS (%)	< 0.1
Radiation Screen (as needed)	None
Lab Signature/Initials	Ustru

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 25 / 23
Receiving ID#	I11252301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	6:15
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.65
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.2
Conductivity	50.2
% Solids	3.37%
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 22 / 23
Receiving ID#	ZH222303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:22
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.5
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.10
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.7
Conductivity	>200
% Solids	8.74%
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 22 / 23
Receiving ID#	ZH222303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:00
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.24
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.0
Conductivity	450
% Solids	1.95%
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 22 / 23
Receiving ID#	Z 11 22 23 C 2
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:44
Time out	
Received by	<i>[Signature]</i>
Sampled by	A. Vertic

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 170
pH (S.U.)	1.89
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	86.0
% Solids	2.21
Turbidity	Yes No
Color	
TSS (%)	
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 22 / 23
Receiving ID#	Z 11 22 23 C 2
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:00
Time out	
Received by	<i>[Signature]</i>
Sampled by	J. Vertic

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.99
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.4
Conductivity	53.2
% Solids	2.37%
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 23
Receiving ID#	11222304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:30
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	31.40
pH (S.U.)	0.56
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.18
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.6
Conductivity	2120.05
% Solids	2.69
Turbidity	Yes No
Color	
TSS (%)	60.11
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 21 / 23
Receiving ID#	Z11212301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:34
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	>140
Flash Point (F)	1.70
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	1.07
Specific Gravity	
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.3
Conductivity	78.4ms
% Solids	1.92
Turbidity	Yes No
Color	
TSS (%)	LOI
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 21 / 23
Receiving ID#	Z11213002
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:02
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	>140
Flash Point (F)	2.51
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	1.06
Specific Gravity	
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.1
Conductivity	93.8
% Solids	4.76%
Turbidity	Yes No
Color	
TSS (%)	LOI
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 20 / 23
Receiving ID#	11202304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	1835
Time in	
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)?	>140
Flash Point (F)	
pH (S.U.)	
Cyanides? (mg/L)	7.31
Sulfides? (ppm)?	1.03
Specific Gravity	
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.7
Conductivity	50.3
% Solids	1.73%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 20 / 23
Receiving ID#	11202305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	2135
Time in	
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)?	>140
Flash Point (F)	477
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.4
Conductivity	60.3
% Solids	2.36%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION:	
Date	11 / 26 / 23
Receiving ID#	Z11202302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:12
Time out	
Received by	J. Warley
Sampled by	J. Warley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (GC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.39
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.1
Conductivity	167.9 µS
% Solids	4.96
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. Warley

Receiving & Departure Approval Form

REC04-01 - Page 1

Revision 6
1/20/20

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION:	
Date	11 / 20 / 23
Receiving ID#	Z11202303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:53
Time out	
Received by	J. Warley
Sampled by	J. Warley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (GC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.23
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.5
Conductivity	78.4 µS
% Solids	4.12
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. Warley

Receiving & Departure Approval Form

REC04-01 - Page 1

Revision 6
1/20/20

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 17 / 23
Receiving ID#	E11772305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	1871
Time in	
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.)	6.88
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.1
Conductivity	53.0
% Solids	2.01%
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 20 / 23
Receiving ID#	E11262301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:23
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.)	2.57
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.0
Conductivity	70.55
% Solids	2.65
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 17 / 23
Receiving ID#	Z11172303
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	2140
Flash Point (F)	3.34
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes
Oil in Sample?	No
Temperature (F)	63.4
Conductivity	61.9
% Solids	3.14%
Turbidity	Yes
Color	
TSS (%)	
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 17 / 23
Receiving ID#	Z11172304
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	16:20
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)?	2140
Flash Point (F)	647
pH (S.U.)	68.0
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes
Oil in Sample?	No
Temperature (F)	67.8
Conductivity	52.6
% Solids	2.39%
Turbidity	Yes
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 11 / 23
Receiving ID#	1117301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:55
Time out	
Received by	<i>J. A. Wachtel</i>
Sampled by	<i>J. A. Wachtel</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	270
Flash Point (F)	138
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	1.04
Specific Gravity	
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.9
Conductivity	137.305
% Solids	2.12
Turbidity	Yes No
Color	
TSS (%)	2.2
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. A. Wachtel</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 17 / 23
Receiving ID#	1117302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:50
Time out	
Received by	<i>J. A. Wachtel</i>
Sampled by	<i>J. A. Wachtel</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	270
Flash Point (F)	0.96
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.10
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.1
Conductivity	170.005
% Solids	62.39
Turbidity	Yes No
Color	
TSS (%)	60.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. A. Wachtel</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 16 / 23
Receiving ID#	I 1163304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	1756
Time in	
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.)	6.53
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.2
Conductivity	518
% Solids	2.8470
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 16 / 23
Receiving ID#	I 1163305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	3204
Time in	
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.)	1.51
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.7
Conductivity	124.4
% Solids	4.8470
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 16 / 23
Receiving ID#	11116202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2:36 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.)	6.57
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.16
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.5
Conductivity	> 1000.5
% Solids	10.22
Turbidity	Yes No
Color	
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 16 / 23
Receiving ID#	11116203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1:04
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.57
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.2
Conductivity	880 49.3
% Solids	3.0470
Turbidity	Yes No
Color	
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 15 / 23
Receiving ID#	IL1152305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	3:05
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	>140
Flash Point (F)	720
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	1.02
Specific Gravity	
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.2
Conductivity	50.5
% Solids	21.4070
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 16 / 23
Receiving ID#	IL1162301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:32
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	>140
Flash Point (F)	174
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.09
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.7
Conductivity	111.605
% Solids	29.2
Turbidity	Yes No
Color	
TSS (%)	
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 15 / 23
Receiving ID#	211152303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:50
Time out	
Received by	J. Walsh
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	2140
Flash Point (F)	113
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.7
Conductivity	1783
% Solids	6.01
Turbidity	Yes No
Color	
TSS (%)	6.1
Radiation Screen (as needed)	
Lab Signature/Initials	

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 15 / 23
Receiving ID#	211152304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:01
Time out	
Received by	J. Walsh
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	2140
Flash Point (F)	441
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.10
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.8
Conductivity	178.3
% Solids	12.80%
Turbidity	Yes No
Color	
TSS (%)	5.01
Radiation Screen (as needed)	
Lab Signature/Initials	J. Walsh

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/15/23
Receiving ID#	Z11152301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:35
Time out	
Received by	J. D. [Signature]
Sampled by	J. D. [Signature]

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.23
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.10
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.0
Conductivity	>10000
% Solids	7.83
Turbidity	Yes No
Color	
TSS (%)	6.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. D. [Signature]

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/15/23
Receiving ID#	Z11152302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:05
Time out	
Received by	J. D. [Signature]
Sampled by	Chrey Pack [Signature]

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	4.03
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.6
Conductivity	6600
% Solids	2.15
Turbidity	Yes No
Color	
TSS (%)	0.5
Radiation Screen (as needed)	
Lab Signature/Initials	J. D. [Signature]

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/14/23
Receiving ID#	E1142306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2023
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)?	>140
Flash Point (F)	6.74
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.5
Conductivity	53.0
% Solids	2.2270
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/14/23
Receiving ID#	E1142307
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2209
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)?	2140
Flash Point (F)	6.43
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	LF0007
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.7
Conductivity	53.4
% Solids	4.9
Turbidity	Yes No
Color	Blond
TSS (%)	40.1
Radiation Screen (as needed)	None
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 14 / 23
Receiving ID#	I-1114-304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	1810
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.23
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.10
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.1
Conductivity	213.4
% Solids	8.85%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 14 / 23
Receiving ID#	I-1114-305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	1810
Time in	
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.)	6.67
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.8
Conductivity	51.3
% Solids	1.36%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 14 / 23
Receiving ID#	I11142302
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	08:50
Time out	
Received by	<i>N. Warden</i>
Sampled by	<i>A. Waring</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (GC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	2.15
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.260
Physical Description	
Stream Consistency	Yes
Oil in Sample?	Yes
Temperature (F)	64°
Conductivity	82.5
% Solids	6.26%
Turbidity	Yes
Color	
TSS (%)	60.1%
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N. Warden</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 14 / 23
Receiving ID#	I11142303
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	10:43
Time out	
Received by	<i>J. D. [Signature]</i>
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (GC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2-83
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.09
Physical Description	
Stream Consistency	Yes
Oil in Sample?	Yes
Temperature (F)	67.2
Conductivity	98.605
% Solids	8.96
Turbidity	Yes
Color	
TSS (%)	20.11
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. [Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 13 / 23
Receiving ID#	21112205
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	21:20
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)?	>140
Flash Point (F)	6.23
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.8
Conductivity	48.5
% Solids	2.88%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 14 / 23
Receiving ID#	211142301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:54
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)?	>140
Flash Point (F)	1.81
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.5
Conductivity	86.9
% Solids	2.10
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 13 / 23
Receiving ID#	II1132303
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	15:45
Time out	
Received by	<i>JAWORLIX</i>
Sampled by	<i>JAWORLIX</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	240
Flash Point (F)	2.41
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes
Oil in Sample?	Yes
Temperature (F)	68.1
Conductivity	712
% Solids	1.18
Turbidity	
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>Jaworlix</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 13 / 23
Receiving ID#	II1132304
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	18:45
Time out	
Received by	<i>Jaworlix</i>
Sampled by	<i>Jaworlix</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	2140
Flash Point (F)	5.76
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes
Oil in Sample?	Yes
Temperature (F)	67.3
Conductivity	50.3
% Solids	2.95%
Turbidity	Yes
Color	No
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>Jaworlix</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 13 / 23
Receiving ID#	21113 23 01
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>J. Ward</i>
Sampled by	<i>J. Ward</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	5.140
Flash Point (F)	1.41
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.2
Conductivity	142.905
% Solids	12.14
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Ward</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 13 / 23
Receiving ID#	21113 23 02
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	9:51
Time out	
Received by	<i>J. Ward</i>
Sampled by	<i>J. Ward</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	2.140
Flash Point (F)	12.44
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.9
Conductivity	39.500
% Solids	1.21
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Ward</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 10 / 23
Receiving ID#	I 11102302
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	1446
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.)	1.86
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.7
Conductivity	179
% Solids	5.99%
Turbidity	Yes No
Color	
TSS (%)	5.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 10 / 23
Receiving ID#	Z 11102303
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	18.27
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.)	3.88
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.7
Conductivity	50.605
% Solids	1.85
Turbidity	Yes No
Color	
TSS (%)	0.25
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 09 / 23
Receiving ID#	I11092303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2:00
Time out	
Received by	
Sampled by	VEN

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.72
Cyanides? (mg/L)	
Sulfides? (ppm)?	1.06
Specific Gravity	1.02
Physical Description	Clear liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.0
Conductivity	44.2
% Solids	1.5%
Turbidity	Yes No
Color	100-100
TSS (%)	< 0.1
Radiation Screen (as needed)	None
Lab Signature/Initials	VEN

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 10 / 23
Receiving ID#	I11102321
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:30 AM
Time out	
Received by	J. A. Johnson
Sampled by	D. Johnson

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.66
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.6
Conductivity	150.4
% Solids	5.6%
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. A. Johnson

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 09 / 23
Receiving ID#	111092301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	1134 APR
Time in	
Time out	
Received by	<i>J. Miller</i>
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	> 140
Flash Point (F)	113
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.056
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.9
Conductivity	> 1000.5
% Solids	6.20
Turbidity	Yes No
Color	
TSS (%)	5.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Miller</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 09 / 23
Receiving ID#	111092302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:47
Time out	
Received by	<i>J. Miller</i>
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	1.35
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.2
Conductivity	116.325
% Solids	5.99
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Miller</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 08 / 23
Receiving ID#	1110923 01
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:30
Time out	
Received by	<i>[Signature]</i>
Sampled by	JP

LAB INFORMATION	
Composites? (RT#)	
PCBs (ppm) (Dily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U)	7.51
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.9
Conductivity	48.1
% Solids	1.97
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 08 / 23
Receiving ID#	111 08 23 02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:34
Time out	
Received by	
Sampled by	D. Barber

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.2
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	125.0 us
% Solids	4.69
Turbidity	Yes No
Color	
TSS (%)	1.0
Radiation Screen (as needed)	
Lab Signature/Initials	J.D.

Receiving & Departure Approval Form

REC04-01 -- Page 1

Revision 6
1/29/20

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 08 / 23
Receiving ID#	111 08 23 03
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:45
Time out	
Received by	
Sampled by	J.M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.30
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.6
Conductivity	49.2
% Solids	2.94
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	J.M.

Receiving & Departure Approval Form

REC04-01 -- Page 1

Revision 6
1/29/20

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/07/23
Receiving ID#	11072305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1615
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.81
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.1
Conductivity	50.5
% Solids	2.00
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

Receiving & Departure Approval Form

REC04-01 - Page 1

Revision 6
1/20/20

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/18/23
Receiving ID#	11082301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.92
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.3
Conductivity	175.043
% Solids	5.15
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

Receiving & Departure Approval Form

REC04-01 - Page 1

Revision 6
1/20/20

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 7 / 23
Receiving ID#	211072303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:00 AM
Time out	
Received by	<i>J. A. [Signature]</i>
Sampled by	<i>A. Ward</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.18
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.0-69.5
Conductivity	55.0-69.5
% Solids	2.43
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. A. [Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 7 / 23
Receiving ID#	211072304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	<i>A. Ward</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.161
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.0
Conductivity	51.8
% Solids	3.27
Turbidity	Yes No
Color	<0.1
TSS (%)	
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 7 / 23
Receiving ID#	Z11072301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	06:07
Time out	
Received by	J.A. work
Sampled by	J.A. work

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	> 190
Flash Point (F)	613
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.1
Conductivity	56.8 us
% Solids	2.44
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	J.A. work

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 7 / 23
Receiving ID#	Z11072302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	06:10
Time out	
Received by	J.A. work
Sampled by	J.A. work

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	> 190
Flash Point (F)	1.27
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.1
Conductivity	151.8 us
% Solids	7.4
Turbidity	Yes No
Color	
TSS (%)	0.5
Radiation Screen (as needed)	
Lab Signature/Initials	J.A. work

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 06 / 23
Receiving ID#	11062304
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	1400
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.)	6.34
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes
Oil in Sample?	No
Temperature (F)	67.6
Conductivity	55.3
% Solids	2.30
Turbidity	Yes
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 06 / 23
Receiving ID#	11062305
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	No
Generator	
Client	
Transporter	
Time in	2028
Time out	
Received by	
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.)	1.89
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes
Oil in Sample?	No
Temperature (F)	67.4
Conductivity	57.7
% Solids	3.4%
Turbidity	Yes
Color	
TSS (%)	<0.1%
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 6 / 23
Receiving ID#	211062302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	5:20
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.)	1.03
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.8
Conductivity	154.7
% Solids	4.19
Turbidity	Yes No
Color	
TSS (%)	6.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 06 / 23
Receiving ID#	211062302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:12:18
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.)	6.81
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.0
Conductivity	53.8
% Solids	0.19
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 03 / 23
Receiving ID#	T11032304
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:20
Time out	
Received by	USW
Sampled by	USW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.34
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	Liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.9
Conductivity	55.0
% Solids	1.9%
Turbidity	Yes No
Color	Down
TSS (%)	<0.5
Radiation Screen (as needed)	NSC
Lab Signature/Initials	USW

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 6 / 23
Receiving ID#	Z11062301
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:29
Time out	
Received by	J.A.
Sampled by	J.A. Ward

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.68
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.2
Conductivity	54.5
% Solids	2.70
Turbidity	Yes No
Color	
TSS (%)	
Radiation Screen (as needed)	
Lab Signature/Initials	J.A.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 3 / 23
Receiving ID#	I 110323C2
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:36
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)?	>140
Flash Point (F)	5.11
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.7
Conductivity	82.1
% Solids	4.5490
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 03 / 23
Receiving ID#	I 11032303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:06
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)?	>140
Flash Point (F)	2.96
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.2
Conductivity	61.9
% Solids	3.6070
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 02 / 23
Receiving ID#	111022306
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:57
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.)	7.18
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.8
Conductivity	53.203
% Solids	2.91
Turbidity	Yes No
Color	
TSS (%)	<6.0
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 5 / 23
Receiving ID#	111032301
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2:00 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.)	8.6
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	135.5
% Solids	5.33%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 2 / 23
Receiving ID#	LI102.23.03
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	11:19
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	> 140
Flash Point (F)	7.59
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.3 F
Conductivity	53.0
% Solids	1.69%
Turbidity	Yes No
Color	
TSS (%)	5.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 01 / 23
Receiving ID#	LI102.23.04
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	Yes No
Generator	
Client	
Transporter	
Time in	16:53
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	462 > 140
Flash Point (F)	6.62
pH (S.U.)	6.62
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.2 F
Conductivity	54.2 MO
% Solids	2.54%
Turbidity	Yes No
Color	< 0.1
TSS (%)	
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 2 / 23
Receiving ID#	211022302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:10
Time out	
Received by	<i>Jim Jones</i>
Sampled by	<i>J. Worley</i>

LAB INFORMATION	
Compatible? (RT#)	N/A
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.99
Cyanides? (mg/L)	<10
Sulfides? (ppm)?	500
Specific Gravity	1.06
Physical Description	light
Stream Consistency	Yes No
Oil in Sample?	Yes (No)
Temperature (F)	67.5
Conductivity	751
% Solids	2.53%
Turbidity	Yes (No)
Color	LT-RCO 100
TSS (%)	5.01
Radiation Screen (as needed)	none
Lab Signature/Initials	<i>Jim Jones</i>

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 2 / 23
Receiving ID#	211022301
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>A. Worley</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Only Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	2.35
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60°
Conductivity	670
% Solids	2.21%
Turbidity	Yes No
Color	
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N. Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/01/23
Receiving ID#	Z11012302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:35
Time out	
Received by	<i>J. A. Worley</i>
Sampled by	<i>J. A. Worley</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	1.23
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.016
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.5
Conductivity	241.005
% Solids	4.85
Turbidity	Yes No
Color	
TSS (%)	0.7
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. A. Worley</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/01/23
Receiving ID#	Z11012302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:27
Time out	
Received by	<i>J. A. Worley</i>
Sampled by	<i>J. A. Worley</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	7.56
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.9
Conductivity	47.205
% Solids	2.35
Turbidity	Yes No
Color	
TSS (%)	5.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. A. Worley</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/01/23
Receiving ID#	IL012501
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:53
Time out	
Received by	J.M.D.
Sampled by	A. McElroy

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	9.27
pH (S.U.)	
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.3
Conductivity	27.6
% Solids	3.46
Turbidity	Yes No
Color	
TSS (%)	2.9
Radiation Screen (as needed)	
Lab Signature/Initials	J.M.D.

WASTE PROFILES

Deep Well Profile



Disposal Facility: Waste Profile #:
Sales Rep #:

I. Generator Information

Generator Name:
Address:
City: County: State: Zip:
State ID/Reg No: EPA ID #: NAICS #:
Generator Mailing Address (if different)
City: County: State: Zip:
Generator Contact Name: Email:
Phone Number: Ext: Fax Number:

II. Billing Information

Bill To: Contact Name:
Billing Address: Email:
City: State: Zip: Phone:

III. Waste Stream Information

Name of Waste:
Process Generating Waste:
Is Waste from a TSD/Like Consolidation Process?? Yes No
Waste Type: Non-Hazardous Non-Industrial
Container Type: Bulk Tanker

Container Size / Unit of Measure: Annual Volume: Volume Units: Frequency:

IV. Federal and State Regulatory Information

Is this waste Benzene NESHAP regulated by 40 CFR 61.342? Yes No
Is this waste from State or Federal Superfund Subject to CERCLA? Yes No
State Waste Codes:
RCRA Waste Codes:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile

Deep Well Profile



V. Shipping / Packaging Information

DOT Hazardous Material / Waste? Yes No UN / NA# Packaging Group: Hazardous Class(es):

DOT Proper Shipping Name:

NOS Hazardous Constituents:

ERG#: RQ: Yes No RQ Basis: RQ Value in lbs:

Marine Pollutant as defined by 49 CFR 171.8 Yes No If Yes, describe: 24 Hour Emergency Contact Number:

VI. Physical Characteristics

Primary Color: % Suspended Solids: Layers: Specific Gravity: Or Actual

Odor: Odor (describe): pH: Dry Weight Ton Per Gallon:

Flash Point: Flash Point Test Method: Total Alkalinity (mg/L): VOC Concentration (ppm): Ammonia / Ammonia Compounds Yes No

VII. Chemical Composition

Chemical Composition (Must add up to 100%) All compounds of $\geq 1\%$ concentration must be listed.

Constituent (no trade names)	Min	Max	% or ppm	Constituent (no trade names)	Min	Max	% or ppm
<input type="text" value="See reports for PFAS"/>	<input type="text"/>	<input type="text"/>	<input style="width: 20px;" type="text" value="%"/> <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input style="width: 20px;" type="text" value="%"/> <input type="text"/>
<input type="text" value="Water"/>	<input type="text" value="100"/>	<input type="text" value="100"/>	<input style="width: 20px;" type="text" value="%"/> <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input style="width: 20px;" type="text" value="%"/> <input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input style="width: 20px;" type="text" value="%"/> <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input style="width: 20px;" type="text" value="%"/> <input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input style="width: 20px;" type="text" value="%"/> <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input style="width: 20px;" type="text" value="%"/> <input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input style="width: 20px;" type="text" value="%"/> <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input style="width: 20px;" type="text" value="%"/> <input type="text"/>

Waste Composition is determined by: Analysis Safety Data Sheet (SDS) Process Knowledge

Have you taken a sample? Yes No

Is the representative sample collected in accordance with US EPA 40 CFR 261.20 (c) or equivalent? Yes No

Sample Type: Sample ID #: Sample Date (mm/dd/yy):

List additional sample ID#(s) and dates and/or list the product name of each SDS submitted:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile

Deep Well Profile



VIII. Chemical Properties

RCRA Items:

Arsenic None PPM
 Barium None PPM
 Cadmium None PPM
 Chromium None PPM
 Lead None PPM
 Mercury None PPM
 Selenium None PPM
 Silver None PPM

State Regulated:

TPH (TX & CA) None PPM
 Antimony (TX & CA) None PPM
 Beryllium (TX & CA) None PPM
 Nickel (TX & CA) None PPM
 Chromium VI (CA) None PPM
 Cobalt (CA) None PPM
 Copper (CA) None PPM
 Molybdenum (CA) None PPM
 Thallium (CA) None PPM
 Vanadium (CA) None PPM
 Zinc (CA) None PPM

Operational:

Bromide None PPM
 Calcium None PPM
 Chloride None PPM
 Fluoride (CA) None PPM
 Iodine None PPM
 Iron None PPM
 Magnesium None PPM
 Potassium None PPM
 Sodium None PPM
 Sulfur None PPM

IX. Chemical Properties Certification (Each item must be answered)

PCB's (per 40 CFR 761) None PPM
 Benzene None PPM
 Dioxins None PPM
 Sulfides None PPM
 Cyanides None PPM
 Oxidizer None PPM
 Pentachlorophenol No Yes. If Yes, please explain:
 OSHA Carcinogen No Yes. If Yes, please explain:

Pathogens No Yes. If Yes, please explain:
 Pesticides No Yes. If Yes, please explain:
 Polymerizes No Yes. If Yes, please explain:
 Radioactives No Yes. If Yes, please explain:
 Water Reactives No Yes. If Yes, please explain:
 Other Reactives No Yes. If Yes, please explain:

X. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. To the best of my knowledge, all Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste. In addition, I certify that all known or suspected hazards involved in handling, transporting, storing, treating or processing, and disposing of the waste material that is the subject of this profile have been disclosed and that no deliberate or willful omissions or misrepresentations as to the composition and properties of the waste have been made. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify and hold harmless the disposal facility for any damages or losses resulting from this certification being inaccurate or untrue and for any damages or losses resulting from offering for disposal a waste material that does not conform to this waste profile and certification.

Matt Kluge
 Authorized Representative Name
 (Printed)

Environmental Engineer
 Title
 (Printed)

USACE Louisville District
 Company Name

KLUGE.MATTHEW.ROBERT.12756
 09575
 Digitally signed by
 KLUGE.MATTHEW.ROBERT.1275609575
 Date: 2023.10.26 09:58:14 -04'00'

Representative Signature

23 October 2023
 Date

Deep Well Profile



Disposal Facility: 6440 - DETROIT INDUSTRIAL WELL

Waste Profile #:

Sales Rep #: EQAI TR#983281

I. Generator Information

Generator Name: EQ Detroit, INC (DBA US Ecology Detroit South)

Address: 1923 Frederick St

City: Detroit County: Wayne State: MI Zip: 48211

State ID/Reg No: EPA ID #: MID980991566 NAICS #:

Generator Mailing Address (if different)

City: County: State: MI Zip:

Generator Contact Name: Email:

Phone Number: Ext: Fax Number:

II. Billing Information

Bill To: Q Detroit, INC (DBA US Ecology Detroit South) Contact Name:

Billing Address: 1923 Frederick St Email:

City: Detroit State: MI Zip: 48211 Phone: 313 347 1300

III. Waste Stream Information

Name of Waste: GW Contaimanted With PFAS

Process Generating Waste: Pumping out of GW onsite a TSDF. GW source has had all RCRA concerns and more run, and the only contamination found was PFAS. There are no other constituents of concern in this material. There is no source contamination of this groundwater.

Is Waste from a TSDF Like Consolidation Process?? Yes No Waste Type: Non-Hazardous Non-Industrial Container Type: Vac Truck

Container Size / Unit of Measure: 5,000 gallons Annual Volume: 180,000 Volume Units: Gallons Frequency: Weekly

IV. Federal and State Regulatory Information

Is this waste Benzene NESHAP regulated by 40 CFR 61.342? Yes No

Is this waste from State or Federal Superfund Subject to CERCLA? Yes No

State Waste Codes: 029L

RCRA Waste Codes:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profil

Deep Well Profile



V. Shipping / Packaging Information

DOT Hazardous Material / Waste? Yes No UN / NA# 3082 Packaging Group: III Hazardous Class(es): 9
 DOT Proper Shipping Name: Waste, Environmentally hazardous substances, liquid, n.o.s.
 NOS Hazardous Constituents: PFAS

ERG#: 171 RQ: Yes No RQ Basis: RQ Value in lbs:
 Marine Pollutant as defined by 49 CFR 171.8 Yes No If Yes, describe: 24 Hour Emergency Contact Number:

VI. Physical Characteristics

Primary Color: Clear/Grey % Suspended Solids: 1-3% Layers: Single Phase Specific Gravity: 1.0 - 1.2 Or Actual
 Odor: None Odor (describe): Smells like water pH: 5 - 10 Dry Weight Ton Per Gallon:
 Flash Point: >200 F Flash Point Test Method: None Total Alkalinity (mg/L): n/a VOC Concentration (ppm): 0 Ammonia / Ammonia Compounds Yes No

VII. Chemical Composition

Chemical Composition (Must add up to 100%) All compounds of >=1% concentration must be listed.

Constituent (no trade names)	Min	Max	% or ppm	Constituent (no trade names)	Min	Max	% or ppm
water	99.9	100	%				%
			%				%
			%				%
			%				%
			%				%

Waste Composition is determined by: Analysis Safety Data Sheet (SDS) Process Knowledge

Have you taken a sample? Yes No

Is the representative sample collected in accordance with US EPA 40 CFR 261.20 (c) or equivalent? Yes No

Sample Type: Grab Sample Sample ID #: Sample Date (mm/dd/yy):

List additional sample ID#(s) and dates and/or list the product name of each SDS submitted:

Lab Report: PFAS TOC 09-18-23
 Sample IDs: 23091581-01, 23091581-02, 23091581-03, 23091581-04

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile

Deep Well Profile



VIII. Chemical Properties

RCRA Items:

Arsenic	<input checked="" type="checkbox"/> None	PPM
Barium	<input checked="" type="checkbox"/> None	PPM
Cadmium	<input checked="" type="checkbox"/> None	PPM
Chromium	<input checked="" type="checkbox"/> None	PPM
Lead	<input checked="" type="checkbox"/> None	PPM
Mercury	<input checked="" type="checkbox"/> None	PPM
Selenium	<input checked="" type="checkbox"/> None	PPM
Silver	<input checked="" type="checkbox"/> None	PPM

State Regulated:

TPH (TX & CA)	<input checked="" type="checkbox"/> None	PPM
Antimony (TX & CA)	<input checked="" type="checkbox"/> None	PPM
Beryllium (TX & CA)	<input checked="" type="checkbox"/> None	PPM
Nickel (TX & CA)	<input checked="" type="checkbox"/> None	PPM
Chromium VI (CA)	<input checked="" type="checkbox"/> None	PPM
Cobalt (CA)	<input checked="" type="checkbox"/> None	PPM
Copper (CA)	<input checked="" type="checkbox"/> None	PPM
Molybdenum (CA)	<input checked="" type="checkbox"/> None	PPM
Thallium (CA)	<input checked="" type="checkbox"/> None	PPM
Vanadium (CA)	<input checked="" type="checkbox"/> None	PPM
Zinc (CA)	<input checked="" type="checkbox"/> None	PPM

Operational:

Bromide	<input checked="" type="checkbox"/> None	PPM
Calcium	<input checked="" type="checkbox"/> None	PPM
Chloride	<input checked="" type="checkbox"/> None	PPM
Fluoride (CA)	<input checked="" type="checkbox"/> None	PPM
Iodine	<input checked="" type="checkbox"/> None	PPM
Iron	<input checked="" type="checkbox"/> None	PPM
Magnesium	<input checked="" type="checkbox"/> None	PPM
Potassium	<input checked="" type="checkbox"/> None	PPM
Sodium	<input checked="" type="checkbox"/> None	PPM
Sulfur	<input checked="" type="checkbox"/> None	PPM

IX. Chemical Properties Certification (Each item must be answered)

PCB's <small>(per 40 CFR 761)</small>	<input checked="" type="checkbox"/> None	PPM	Pathogens	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	<input type="text"/>
Benzene	<input checked="" type="checkbox"/> None	PPM	Pesticides	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	<input type="text"/>
Dioxins	<input checked="" type="checkbox"/> None	PPM	Polymerizes	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	<input type="text"/>
Sulfides	<input checked="" type="checkbox"/> None	PPM	Radioactives	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	<input type="text"/>
Cyanides	<input checked="" type="checkbox"/> None	PPM	Water Reactives	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	<input type="text"/>
Oxidizer	<input checked="" type="checkbox"/> None	PPM	Other Reactives	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	<input type="text"/>
Pentachlorophenol	<input checked="" type="checkbox"/> No				Yes. If Yes, please explain:	
OSHA Carcinogen	<input checked="" type="checkbox"/> No				Yes. If Yes, please explain:	

X. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. To the best of my knowledge, all Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste. In addition, I certify that all known or suspected hazards involved in handling, transporting, storing, treating or processing, and disposing of the waste material that is the subject of this profile have been disclosed and that no deliberate or willful omissions or misrepresentations as to the composition and properties of the waste have been made. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify and hold harmless the disposal facility for any damages or losses resulting from this certification being inaccurate or untrue and for any damages or losses resulting from offering for disposal a waste material that does not conform to this waste profile and certification.

Gail Detweiler

Authorized Representative Name
(Printed)

Technical Manager

Title
(Printed)

US Ecology

Company Name

Representative Signature

10/25/2023

Date

Deep Well Profile



Disposal Facility: 6440 - DETROIT INDUSTRIAL WELL

Waste Profile #: 779153

Sales Rep #:

I. Generator Information

Generator Name: COUNTYWIDE LANDFILL

Address: 15701 VREELAND ROAD

City: TRENTON County: WAYNE State: MICHIGAN Zip: 48183

State ID/Reg No: EPA ID #: CESQG NAICS #: 562212

Generator Mailing Address (if different) 525 West Allegan, PO Box 30458

City: LANSING County: INGHAM State: MICHIGAN Zip: 48909

Generator Contact Name: Samantha Belisle, on behalf of EGLE Email: belisles1@michigan.gov

Phone Number: (517) 290-0686 Ext: Fax Number:

II. Billing Information

Bill To: STATE OF MICHIGAN EGLE Contact Name: Tracey Curtis

Billing Address: PO BOX 30426 Email: curtist4@michigan.gov

City: LANSING State: MICHIGAN Zip: 48909 Phone:

III. Waste Stream Information

Name of Waste: Landfill Leachate

Process Generating Waste: Leachate collected at the Countywide Landfill

Is Waste from a TSD/Like Consolidation Process?? Yes No Waste Type: --Select-- Container Type: --Select--

Container Size / Unit of Measure: Annual Volume: 4,000,000 Volume Units: Gallons Frequency: Other

IV. Federal and State Regulatory Information

Is this waste Benzene NESHAP regulated by 40 CFR 61.342? Yes No

Is this waste from State or Federal Superfund Subject to CERCLA? Yes No

State Waste Codes: MI-029L

RCRA Waste Codes:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile

Deep Well Profile



V. Shipping / Packaging Information

DOT Hazardous Material / Waste? Yes No UN / NA# Packaging Group: --Select-- Hazardous Class(es):

DOT Proper Shipping Name:

NOS Hazardous Constituents:

ERG#: RQ: Yes No RQ Basis: RQ Value in lbs:

Marine Pollutant as defined by 49 CFR 171.8 Yes No If Yes, describe: 24 Hour Emergency Contact Number:

VI. Physical Characteristics

Primary Color: % Suspended Solids: --Select-- Layers: Single Phase Specific Gravity: --Select-- Or Actual

Odor: Odor (describe): pH: 5 - 10 Dry Weight Ton Per Gallon:

Flash Point: >200 F Flash Point Test Method: --Select-- Total Alkalinity (mg/L): VOC Concentration (ppm): Ammonia / Ammonia Compounds Yes No

VII. Chemical Composition

Chemical Composition (Must add up to 100%) All compounds of >=1% concentration must be listed.

Constituent (no trade names)	Min	Max	% or ppm	Constituent (no trade names)	Min	Max	% or ppm
1,4-Dioxane	0.015	0.023	ppm				ppm
PFOS (units are ng/L)	260	300	ppm				ppm
PFOA (units are ng/L)	390	510	ppm				ppm
			ppm				ppm
			ppm				ppm

Waste Composition is determined by: Analysis Safety Data Sheet (SDS) Process Knowledge

Have you taken a sample? Yes No

Is the representative sample collected in accordance with US EPA 40 CFR 261.20 (c) or equivalent? Yes No

Sample Type: Sample ID #: Sample Date (mm/dd/yy):

List additional sample ID#(s) and dates and/or list the product name of each SDS submitted:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile

Deep Well Profile



VIII. Chemical Properties

RCRA Items:

Arsenic None PPM
 Barium None PPM
 Cadmium None PPM
 Chromium None PPM
 Lead None PPM
 Mercury None PPM
 Selenium None PPM
 Silver None PPM

State Regulated:

TPH (TX & CA) None PPM
 Antimony (TX & CA) None PPM
 Beryllium (TX & CA) None PPM
 Nickel (TX & CA) None PPM
 Chromium VI (CA) None PPM
 Cobalt (CA) None PPM
 Copper (CA) None PPM
 Molybdenum (CA) None PPM
 Thallium (CA) None PPM
 Vanadium (CA) None PPM
 Zinc (CA) None PPM

Operational:

Bromide None PPM
 Calcium None PPM
 Chloride None PPM
 Fluoride (CA) None PPM
 Iodine None PPM
 Iron None PPM
 Magnesium None PPM
 Potassium None PPM
 Sodium None PPM
 Sulfur None PPM

IX. Chemical Properties Certification (Each item must be answered)

PCB's (per 40 CFR 761) None PPM
 Benzene None PPM
 Dioxins None PPM
 Sulfides None PPM
 Cyanides None PPM
 Oxidizer None PPM
 Pentachlorophenol No Yes. If Yes, please explain:
 OSHA Carcinogen No Yes. If Yes, please explain:
 Pathogens No Yes. If Yes, please explain:
 Pesticides No Yes. If Yes, please explain:
 Polymerizes No Yes. If Yes, please explain:
 Radioactives No Yes. If Yes, please explain:
 Water Reactives No Yes. If Yes, please explain:
 Other Reactives No Yes. If Yes, please explain:

X. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. To the best of my knowledge, all Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste. In addition, I certify that all known or suspected hazards involved in handling, transporting, storing, treating or processing, and disposing of the waste material that is the subject of this profile have been disclosed and that no deliberate or willful omissions or misrepresentations as to the composition and properties of the waste have been made. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify and hold harmless the disposal facility for any damages or losses resulting from this certification being inaccurate or untrue and for any damages or losses resulting from offering for disposal a waste material that does not conform to this waste profile and certification.

Samantha Belisle
 Authorized Representative Name
 (Printed)

Project Manager
 Title
 (Printed)

Michigan EGLE
 Company Name

Representative Signature

10/18/2023
 Date

Deep Well Profile



Disposal Facility: 6440 - DETROIT INDUSTRIAL WELL

Waste Profile #:

Sales Rep #:

I. Generator Information

Generator Name: Cycle Chem, Inc.-Republic Environmental solutions

Address: 550 Industrial Drive

City: Lewisberry County: York State: PA Zip: 17339

State ID/Reg No: 268733 EPA ID #: PAD067098822 NAICS #: 562211

Generator Mailing Address (if different)

City: County: State: PA Zip:

Generator Contact Name: Jay Perez Email: perezj25@persrv.com

Phone Number: 717.938.4700 Ext: Fax Number:

II. Billing Information

Bill To: same Contact Name:

Billing Address: Email:

City: State: PA Zip: Phone:

III. Waste Stream Information

Name of Waste: Enova 163 & 950

Process Generating Waste: Change out of spent plating bath

Is Waste from a TSDF Like Consolidation Process?? Yes No Waste Type: Hazardous Container Type: Bulk Tanker

Container Size / Unit of Measure: TT5000 Annual Volume: 20000 Volume Units: Gallons Frequency: Quarterly

IV. Federal and State Regulatory Information

Is this waste Benzene NESHAP regulated by 40 CFR 61.342? Yes No

Is this waste from State or Federal Superfund Subject to CERCLA? Yes No

State Waste Codes: D006 D008

RCRA Waste Codes:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profil

Deep Well Profile



V. Shipping / Packaging Information

DOT Hazardous Material / Waste? Yes No UN / NA# **NA3082** Packaging Group: **III** Hazardous Class(es): **9**

DOT Proper Shipping Name: **Hazardous waste liquid, n.o.s., 9 PGIII (D006, D008)**

NOS Hazardous Constituents:

ERG#: **171** RQ: Yes No RQ Basis: _____ RQ Value in lbs: _____

Marine Pollutant as defined by 49 CFR 171.8 Yes No If Yes, describe: _____ 24 Hour Emergency Contact Number: **4103689170**

VI. Physical Characteristics

Primary Color: **colorless** % Suspended Solids: **0-1%** Layers: **Single Phase** Specific Gravity: **1.0 - 1.2** Or Actual _____

Odor: **None** Odor (describe): _____ pH: **5 - 10** Dry Weight Ton Per Gallon: _____

Flash Point: **>200 F** Flash Point Test Method: **Closed Cup** Total Alkalinity (mg/L): **not determined** VOC Concentration (ppm): **<0.001** Ammonia / Ammonia Compounds Yes No

VII. Chemical Composition

Chemical Composition (Must add up to 100%) All compounds of $\geq 1\%$ concentration must be listed.

Constituent (no trade names)	Min	Max	% or ppm	Constituent (no trade names)	Min	Max	% or ppm
ammonium hydroxide	6	10	%				%
Nickel sulfate	8	10	%				%
sodium hydroxide	1	1	%				%
sodium hypophosphite	10	15	%				%
Water	65	75	%				%

Waste Composition is determined by: Analysis Safety Data Sheet (SDS) Process Knowledge

Have you taken a sample? Yes No

Is the representative sample collected in accordance with US EPA 40 CFR 261.20 (c) or equivalent? Yes No

Sample Type: **--Select--** Sample ID #: _____ Sample Date (mm/dd/yy): _____

List additional sample ID#(s) and dates and/or list the product name of each SDS submitted:

Sample was previously submitted with initial approval paperwork.

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile

Deep Well Profile



VIII. Chemical Properties

RCRA Items:

Arsenic	<input checked="" type="checkbox"/> None	PPM
Barium	<input checked="" type="checkbox"/> None	PPM
Cadmium	<input type="checkbox"/> None	2 PPM
Chromium	<input checked="" type="checkbox"/> None	PPM
Lead	<input type="checkbox"/> None	100 PPM
Mercury	<input checked="" type="checkbox"/> None	PPM
Selenium	<input checked="" type="checkbox"/> None	PPM
Silver	<input checked="" type="checkbox"/> None	PPM

State Regulated:

TPH (TX & CA)	<input checked="" type="checkbox"/> None	PPM
Antimony (TX & CA)	<input checked="" type="checkbox"/> None	PPM
Beryllium (TX & CA)	<input checked="" type="checkbox"/> None	PPM
Nickel (TX & CA)	<input checked="" type="checkbox"/> None	PPM
Chromium VI (CA)	<input checked="" type="checkbox"/> None	PPM
Cobalt (CA)	<input checked="" type="checkbox"/> None	PPM
Copper (CA)	<input checked="" type="checkbox"/> None	PPM
Molybdenum (CA)	<input checked="" type="checkbox"/> None	PPM
Thallium (CA)	<input checked="" type="checkbox"/> None	PPM
Vanadium (CA)	<input checked="" type="checkbox"/> None	PPM
Zinc (CA)	<input checked="" type="checkbox"/> None	PPM

Operational:

Bromide	<input checked="" type="checkbox"/> None	PPM
Calcium	<input checked="" type="checkbox"/> None	PPM
Chloride	<input checked="" type="checkbox"/> None	PPM
Fluoride (CA)	<input checked="" type="checkbox"/> None	PPM
Iodine	<input checked="" type="checkbox"/> None	PPM
Iron	<input checked="" type="checkbox"/> None	PPM
Magnesium	<input checked="" type="checkbox"/> None	PPM
Potassium	<input checked="" type="checkbox"/> None	PPM
Sodium	<input checked="" type="checkbox"/> None	PPM
Sulfur	<input checked="" type="checkbox"/> None	PPM

IX. Chemical Properties Certification (Each item must be answered)

PCB's <small>(per 40 CFR 761)</small>	<input checked="" type="checkbox"/> None	PPM	Pathogens	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	
Benzene	<input checked="" type="checkbox"/> None	PPM	Pesticides	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	
Dioxins	<input checked="" type="checkbox"/> None	PPM	Polymerizes	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	
Sulfides	<input checked="" type="checkbox"/> None	PPM	Radioactives	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	
Cyanides	<input checked="" type="checkbox"/> None	PPM	Water Reactives	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	
Oxidizer	<input checked="" type="checkbox"/> None	PPM	Other Reactives	<input checked="" type="checkbox"/> No	Yes. If Yes, please explain:	
Pentachlorophenol	<input checked="" type="checkbox"/> No				Yes. If Yes, please explain:	
OSHA Carcinogen	<input checked="" type="checkbox"/> No				Yes. If Yes, please explain:	

X. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. To the best of my knowledge, all Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste. In addition, I certify that all known or suspected hazards involved in handling, transporting, storing, treating or processing, and disposing of the waste material that is the subject of this profile have been disclosed and that no deliberate or willful omissions or misrepresentations as to the composition and properties of the waste have been made. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify and hold harmless the disposal facility for any damages or losses resulting from this certification being inaccurate or untrue and for any damages or losses resulting from offering for disposal a waste material that does not conform to this waste profile and certification.

Jay Perez
Authorized Representative Name
(Printed)

Waste Disposal Project manager
Title
(Printed)

Cycle Chem, Inc.
Company Name

Representative Signature

11/03/2023

Date

Deep Well Profile



Disposal Facility: Waste Profile #: 979974
Sales Rep #:

I. Generator Information

Generator Name:
Address:
City: County: State: Zip:
State ID/Reg No: EPA ID #: NAICS #:
Generator Mailing Address (if different)
City: County: State: Zip:
Generator Contact Name: Email:
Phone Number: Ext: Fax Number:

II. Billing Information

Bill To: Contact Name:
Billing Address: Email:
City: State: Zip: Phone:

III. Waste Stream Information

Name of Waste:
Process Generating Waste:

Is Waste from a TSD/Like Consolidation Process?? Yes No Waste Type: Container Type:
Container Size / Unit of Measure: Annual Volume: Volume Units: Frequency:

IV. Federal and State Regulatory Information

Is this waste Benzene NESHAP regulated by 40 CFR 61.342? Yes No
Is this waste from State or Federal Superfund Subject to CERCLA? Yes No
State Waste Codes:
RCRA Waste Codes:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile

Deep Well Profile



V. Shipping / Packaging Information

DOT Hazardous Material / Waste? Yes No UN / NA# Packaging Group: Hazardous Class(es):

DOT Proper Shipping Name:

NOS Hazardous Constituents:

ERG#: RQ: Yes No RQ Basis: RQ Value in lbs:

Marine Pollutant as defined by 49 CFR 171.8 Yes No If Yes, describe: 24 Hour Emergency Contact Number:

VI. Physical Characteristics

Primary Color: % Suspended Solids: Layers: Specific Gravity: Or Actual

Odor: Odor (describe): pH: Dry Weight Ton Per Gallon:

Flash Point: Flash Point Test Method: Total Alkalinity (mg/L): VOC Concentration (ppm): Ammonia / Ammonia Compounds Yes No

VII. Chemical Composition

Chemical Composition (Must add up to 100%) All compounds of >=1% concentration must be listed.

Constituent (no trade names)	Min	Max	% or ppm	Constituent (no trade names)	Min	Max	% or ppm
<input type="text" value="Water"/>	<input type="text" value="99"/>	<input type="text" value="100"/>	<input type="text" value="%"/> >	<input type="text" value="MEK"/>	<input type="text" value="4"/>	<input type="text" value="5"/>	<input type="text" value="ppm"/>
<input type="text" value="Arsenic"/>	<input type="text" value="5"/>	<input type="text" value="20"/>	<input type="text" value="ppm"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="ppm"/>
<input type="text" value="Phenol"/>	<input type="text" value="3"/>	<input type="text" value="5"/>	<input type="text" value="ppm"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="ppm"/>
<input type="text" value="Cresols"/>	<input type="text" value="3"/>	<input type="text" value="6"/>	<input type="text" value="ppm"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="ppm"/>
<input type="text" value="Acetone"/>	<input type="text" value="3"/>	<input type="text" value="5"/>	<input type="text" value="ppm"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="ppm"/>

Waste Composition is determined by: Analysis Safety Data Sheet (SDS) Process Knowledge

Have you taken a sample? Yes No

Is the representative sample collected in accordance with US EPA 40 CFR 261.20 (c) or equivalent? Yes No

Sample Type: Sample ID #: Sample Date (mm/dd/yy):

List additional sample ID#(s) and dates and/or list the product name of each SDS submitted:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile

Deep Well Profile



VIII. Chemical Properties

RCRA Items:

Arsenic None PPM
 Barium None PPM
 Cadmium None PPM
 Chromium None PPM
 Lead None PPM
 Mercury None PPM
 Selenium None PPM
 Silver None PPM

State Regulated:

TPH (TX & CA) None PPM
 Antimony (TX & CA) None PPM
 Beryllium (TX & CA) None PPM
 Nickel (TX & CA) None PPM
 Chromium VI (CA) None PPM
 Cobalt (CA) None PPM
 Copper (CA) None PPM
 Molybdenum (CA) None PPM
 Thallium (CA) None PPM
 Vanadium (CA) None PPM
 Zinc (CA) None PPM

Operational:

Bromide None PPM
 Calcium None PPM
 Chloride None PPM
 Fluoride (CA) None PPM
 Iodine None PPM
 Iron None PPM
 Magnesium None PPM
 Potassium None PPM
 Sodium None PPM
 Sulfur None PPM

IX. Chemical Properties Certification (Each item must be answered)

PCB's (per 40 CFR 761) None PPM
 Benzene None PPM
 Dioxins None PPM
 Sulfides None PPM
 Cyanides None PPM
 Oxidizer None PPM
 Pentachlorophenol No Yes. If Yes, please explain:
 OSHA Carcinogen No Yes. If Yes, please explain:
 Pathogens No Yes. If Yes, please explain:
 Pesticides No Yes. If Yes, please explain:
 Polymerizes No Yes. If Yes, please explain:
 Radioactives No Yes. If Yes, please explain:
 Water Reactives No Yes. If Yes, please explain:
 Other Reactives No Yes. If Yes, please explain:

X. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. To the best of my knowledge, all Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste. In addition, I certify that all known or suspected hazards involved in handling, transporting, storing, treating or processing, and disposing of the waste material that is the subject of this profile have been disclosed and that no deliberate or willful omissions or misrepresentations as to the composition and properties of the waste have been made. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify and hold harmless the disposal facility for any damages or losses resulting from this certification being inaccurate or untrue and for any damages or losses resulting from offering for disposal a waste material that does not conform to this waste profile and certification.

Andrew Keck

Authorized Representative Name
(Printed)

EHS Manager

Title
(Printed)

Kinder Morgan

Company Name

Andrew C. Keck

Representative Signature

11/15/23

Date

F039 Analysis

ANALYTICAL REPORT

PREPARED FOR

Attn: Tabetha Peebles
Republic Industrial and Energy Solutions
28470 Citrin Dr
Romulus, Michigan 48174

Generated 12/22/2023 2:29:41 PM

JOB DESCRIPTION

Republic Ind & Eng Sol - F039- NOV

JOB NUMBER

190-33231-1

Eurofins Michigan

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
Sue Schafer, Project Manager II
Sue.Schafer@et.eurofinsus.com
(810)229-2763



Table of Contents

Cover Page	1
Table of Contents	3
Sample Summary	4
Case Narrative	5
Client Sample Results	7
QC Sample Results	8
Definitions/Glossary	11
Chain of Custody	12
Isotope Dilution Summary	17

Sample Summary

Client: Republic Industrial and Energy Solutions
Project/Site: Republic Ind & Eng Sol - F039- NOV

Job ID: 190-33231-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
190-33231-1	NOV 2023 F039 Comp.	Water	11/30/23 00:00	12/01/23 10:24



Case Narrative

Client: Republic Industrial and Energy Solutions
Project: Republic Ind & Eng Sol - F039- NOV

Job ID: 190-33231-1

Job ID: 190-33231-1

Eurofins Michigan

Job Narrative 190-33231-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 12/1/2023 10:24 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.0°C

GC/MS Semi VOA

Method 8270E: The following sample was diluted due to the nature of the sample matrix: NOV 2023 F039 Comp. (190-33231-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

Method 8081B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-597432.

Method 8081B: The following sample was diluted due to the nature of the sample matrix: NOV 2023 F039 Comp. (190-33231-1). As such, surrogate recoveries may be below the calibration range, and elevated reporting limits (RLs) are provided.

Method 8081B: Surrogate Tetrachloro-m-xylene recovery for the following sample was outside control limits: NOV 2023 F039 Comp. (190-33231-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The following sample was prepared outside of preparation holding time due to analyst oversight. The sample was not logged as received at the Cleveland lab: NOV 2023 F039 Comp. (190-33231-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Dioxin

Method 8290A: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): NOV 2023 F039 Comp. (190-33231-1). The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method 8290A: The isotope dilution analyte (IDA) 13C-OCDF is highlighted as out of control in the (CCV 320-729134/15) for analytical batch 320-729134 due to a limitation in the laboratory's data system. 13C-OCDF is in control at -30%D thus the data is reported.

(CCV 320-729134/15)

Method 8290A: The Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit: NOV 2023 F039 Comp. (190-33231-1). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the samples.

Method 8290A: The concentration of one analyte associated with the following sample exceeded the instrument calibration range: NOV 2023 F039 Comp. (190-33231-1). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

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Case Narrative

Client: Republic Industrial and Energy Solutions
Project: Republic Ind & Eng Sol - F039- NOV

Job ID: 190-33231-1

Job ID: 190-33231-1 (Continued)

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No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Eurofins Michigan

Client Sample Results

Client: Republic Industrial and Energy Solutions
 Project/Site: Republic Ind & Eng Sol - F039- NOV

Job ID: 190-33231-1

Client Sample ID: NOV 2023 F039 Comp.

Lab Sample ID: 190-33231-1

Date Collected: 11/30/23 00:00

Matrix: Water

Date Received: 12/01/23 10:24

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrosodimethylamine	<400	H	400	ug/L		12/12/23 08:05	12/13/23 20:24	100
Surrogate								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	41		31 - 140			12/12/23 08:05	12/13/23 20:24	100
Phenol-d5 (Surr)	149	S1+	18 - 120			12/12/23 08:05	12/13/23 20:24	100
Nitrobenzene-d5 (Surr)	0	S1-	13 - 120			12/12/23 08:05	12/13/23 20:24	100
2-Fluorophenol (Surr)	41		12 - 120			12/12/23 08:05	12/13/23 20:24	100
2-Fluorobiphenyl (Surr)	65		23 - 120			12/12/23 08:05	12/13/23 20:24	100
2,4,6-Tribromophenol (Surr)	0	S1-	10 - 126			12/12/23 08:05	12/13/23 20:24	100

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<4.3	H	4.3	ug/L		12/13/23 08:02	12/13/23 13:33	20
Surrogate								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	6	S1-	10 - 145			12/13/23 08:02	12/13/23 13:33	20
Tetrachloro-m-xylene	492	S1+	10 - 123			12/13/23 08:02	12/13/23 13:33	20

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	100		54		pg/L		12/11/23 09:52	12/20/23 20:30	1
1,2,3,4,7,8-HxCDD	90		54		pg/L		12/11/23 09:52	12/20/23 20:30	1
1,2,3,6,7,8-HxCDD	200		54		pg/L		12/11/23 09:52	12/20/23 20:30	1
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	380000	G E	230		pg/L		12/11/23 09:52	12/20/23 20:30	1
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	5100		110		pg/L		12/11/23 09:52	12/20/23 20:30	1
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	90		11		pg/L		12/11/23 09:52	12/20/23 20:30	1
Isotope Dilution									
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8-HxCDD	31	*5-	40 - 135				12/11/23 09:52	12/20/23 20:30	1
13C-1,2,3,6,7,8-HxCDD	28	*5-	40 - 135				12/11/23 09:52	12/20/23 20:30	1
13C-OCDD	29	*5-	40 - 135				12/11/23 09:52	12/20/23 20:30	1
13C-OCDF	29	*5-	40 - 135				12/11/23 09:52	12/20/23 20:30	1
13C-2,3,7,8-TCDD	24	*5-	40 - 135				12/11/23 09:52	12/20/23 20:30	1

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QC Sample Results

Client: Republic Industrial and Energy Solutions
 Project/Site: Republic Ind & Eng Sol - F039- NOV

Job ID: 190-33231-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-597287/1-A
 Matrix: Water
 Analysis Batch: 597437

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 597287

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrosodimethylamine	<1.0		1.0	ug/L		12/12/23 08:05	12/13/23 10:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	109		31 - 140			12/12/23 08:05	12/13/23 10:17	1
Phenol-d5 (Surr)	21		18 - 120			12/12/23 08:05	12/13/23 10:17	1
Nitrobenzene-d5 (Surr)	81		13 - 120			12/12/23 08:05	12/13/23 10:17	1
2-Fluorophenol (Surr)	36		12 - 120			12/12/23 08:05	12/13/23 10:17	1
2-Fluorobiphenyl (Surr)	89		23 - 120			12/12/23 08:05	12/13/23 10:17	1
2,4,6-Tribromophenol (Surr)	72		10 - 126			12/12/23 08:05	12/13/23 10:17	1

Lab Sample ID: LCS 240-597287/2-A
 Matrix: Water
 Analysis Batch: 597437

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 597287

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Nitrosodimethylamine	20.0	4.51		ug/L		23	10 - 120
Surrogate	%Recovery	Qualifier	Limits				
Terphenyl-d14 (Surr)	74		31 - 140				
Phenol-d5 (Surr)	25		18 - 120				
Nitrobenzene-d5 (Surr)	84		13 - 120				
2-Fluorophenol (Surr)	41		12 - 120				
2-Fluorobiphenyl (Surr)	83		23 - 120				
2,4,6-Tribromophenol (Surr)	81		10 - 126				

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-597432/1-A
 Matrix: Water
 Analysis Batch: 597503

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 597432

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aldrin	<0.050		0.050	ug/L		12/13/23 08:02	12/13/23 13:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	61		10 - 145			12/13/23 08:02	12/13/23 13:10	1
Tetrachloro-m-xylene	53		10 - 123			12/13/23 08:02	12/13/23 13:10	1

Lab Sample ID: LCS 240-597432/2-A
 Matrix: Water
 Analysis Batch: 597503

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 597432

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Aldrin	0.250	0.193		ug/L		77	26 - 120
Surrogate	%Recovery	Qualifier	Limits				
DCB Decachlorobiphenyl	55		10 - 145				

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1
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QC Sample Results

Client: Republic Industrial and Energy Solutions
 Project/Site: Republic Ind & Eng Sol - F039- NOV

Job ID: 190-33231-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-597432/2-A
 Matrix: Water
 Analysis Batch: 597503

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 597432

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	49		10 - 123

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-726676/1-A
 Matrix: Water
 Analysis Batch: 729134

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 726676

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	<50		50		pg/L		12/11/23 08:41	12/20/23 18:06	1
1,2,3,4,7,8-HxCDD	<50		50		pg/L		12/11/23 08:41	12/20/23 18:06	1
1,2,3,6,7,8-HxCDD	<50		50		pg/L		12/11/23 08:41	12/20/23 18:06	1
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	<100		100		pg/L		12/11/23 08:41	12/20/23 18:06	1
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	<100		100		pg/L		12/11/23 08:41	12/20/23 18:06	1
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	<10		10		pg/L		12/11/23 08:41	12/20/23 18:06	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8-HxCDD	63		40 - 135				12/11/23 08:41	12/20/23 18:06	1
13C-1,2,3,6,7,8-HxCDD	59		40 - 135				12/11/23 08:41	12/20/23 18:06	1
13C-OCDD	47		40 - 135				12/11/23 08:41	12/20/23 18:06	1
13C-OCDF	44		40 - 135				12/11/23 08:41	12/20/23 18:06	1
13C-2,3,7,8-TCDD	53		40 - 135				12/11/23 08:41	12/20/23 18:06	1

Lab Sample ID: LCS 320-726676/2-A
 Matrix: Water
 Analysis Batch: 729134

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 726676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1000	798		pg/L		80	59 - 148
1,2,3,4,7,8-HxCDD	1000	884		pg/L		88	64 - 131
1,2,3,6,7,8-HxCDD	1000	1090		pg/L		109	66 - 148
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	2000	1920		pg/L		96	68 - 134
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	2000	1910		pg/L		95	64 - 142
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	200	200		pg/L		100	66 - 146
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C-1,2,3,4,7,8-HxCDD	74		40 - 135				
13C-1,2,3,6,7,8-HxCDD	67		40 - 135				
13C-OCDD	45		40 - 135				
13C-OCDF	41		40 - 135				
13C-2,3,7,8-TCDD	49		40 - 135				

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QC Sample Results

Client: Republic Industrial and Energy Solutions
 Project/Site: Republic Ind & Eng Sol - F039- NOV

Job ID: 190-33231-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-726676/3-A

Matrix: Water

Analysis Batch: 729134

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 726676

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1000	924		pg/L		92	59 - 148	15	20	
1,2,3,4,7,8-HxCDD	1000	866		pg/L		87	64 - 131	2	20	
1,2,3,6,7,8-HxCDD	1000	1060		pg/L		106	66 - 148	3	20	
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	2000	1940		pg/L		97	68 - 134	1	20	
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	2000	1890		pg/L		94	64 - 142	1	20	
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	200	197		pg/L		99	66 - 146	1	20	

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C-1,2,3,4,7,8-HxCDD	66		40 - 135
13C-1,2,3,6,7,8-HxCDD	59		40 - 135
13C-OCDD	55		40 - 135
13C-OCDF	50		40 - 135
13C-2,3,7,8-TCDD	54		40 - 135

1
2
3
4
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6

Definitions/Glossary

Client: Republic Industrial and Energy Solutions
 Project/Site: Republic Ind & Eng Sol - F039- NOV

Job ID: 190-33231-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Dioxin

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
E	Result exceeded calibration range.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



Eurofins Michigan
10448 Citation Drive Suite 200
Brighton, MI 48116
Phone: 810-229-2763 Fax: 810-229-0000

Client Information		Lab PM: Schafer, Sue		Carrier Tracking No(s): 190-40795-3095.1
Client Contact: Tabetka Peebles		E-Mail: Sue.Schafer@et.eurofins.com		Page: Page 1 of 1
Company: Republic Industrial and Energy Solutions		Phone: J.A.		Job #:
Address: 28470 Citrin Dr		State of Origin: MI		
City: Romulus		Analysis Requested		
State, Zip: MI, 48174				
Phone: 313-347-1328(Tel)				
E-mail: peebles@republicservices.com				
Project Name: Republic Ind & Eng Sol - F039				
Site: Romulus, MI				
Due Date Requested:				
TAT Requested (days):				
Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
PO #: 31008547 (2023)				
WO #:				
Project #:				
SSOW#:				
Sample Identification		Sample Type (W=Water, S=Sediment, O=Organic, I=Inorganic, A=Air)		
Nov 2023 F039 Comp		Sample Time		
11/30/23		Preservation Code: Comp Water		
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		
8270E - Nitrosodimethylamine <input checked="" type="checkbox"/>		8081B - Aldrin <input checked="" type="checkbox"/>		
8290A - Dioxins <input checked="" type="checkbox"/>		8290A - Dioxins <input checked="" type="checkbox"/>		
Total Number of Containers		Special Instructions/Note:		
		190-33231 Chain of Custody		
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		
Empty Kit Reinquished by:		Method of Shipment: 1st Priority		
Reinquished by: [Signature]		Date/Time: 11/30/23		
Reinquished by: [Signature]		Date/Time: 12/11/23		
Reinquished by: [Signature]		Date/Time: 12/11/23 10:24		
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:		



Environment Testing
TestAmerica

SDS or Known Hazard Information Supplied by Client

Discrepancies

Short Hold

Rush 24 Hr 2-Day 3-Day 5-Day Other: _____

Client ID: Republic Industries

Work Order #: 33231

Receipt Evaluation Performed by: Initials: JK Date: 12/1 Time: 10:24

Cooler / Sample Receipt

After hours receipt: complete gray areas. Place cooler in walk-in, place form in Receiving box. Date: _____ Time: _____

Method of Shipment:

Walk-In Client Eurofins TA Field/Courier

Other Client / 3rd Party Courier: _____

Fed Ex Tracking #: _____

UPS Tracking #: _____

Other: _____

Shipping Container Type:

Cooler Box

None Other: _____

Plastic Bags Foam

Bubble Wrap Paper

Packing Peanuts None

Other: _____

Custody Seals Intact:

Yes No

NA (not used or required)

Ice (Solid) Ice (Melted)

Blue Ice None

Other: _____

Bacteriological Samples	Temp Corrected (°C)	Frozen?		Rec'd Within 2 Hrs?		Sample Flagged?	
		Yes	No	Yes	No	Yes	No

Received on same day sampled? Yes No

Additional Sheets Required? Yes No

Receipt Temperatures

Thermometer ID	Observed (°C)	Corrected (°C)	Temp Blank	Sample Temp	Acceptable	Cooler ID	Affected Samples
<u>CP313207</u>	<u>10.0</u>	<u>10.0</u>	_____	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	_____	<u>Bubble Wrapage</u>
_____	_____	_____	_____	_____	<input type="checkbox"/> Y <input type="checkbox"/> N	_____	_____
_____	_____	_____	_____	_____	<input type="checkbox"/> Y <input type="checkbox"/> N	_____	_____

Receipt Questions**	Y	N	NA	"No" answers require additional comment
CoC present and ETA receipt signature, date, and time properly documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers and Labels in good condition? (unbroken, not leaking, appropriately filled, labels legible & attached)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Appropriate containers used and adequate volume provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preserved bottles checked for pH? Yes No <input checked="" type="checkbox"/>
Number of sample containers match CoC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH strip lot # _____
Samples received within hold?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Samples submitted for GRO and Volatiles analysis (8260, 624, 524) received without headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Was a Trip Blank received with VOA samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the samples free of any questionable physical conformities? (i.e.; field duplicates or multiple bottles of the same sample do not significantly vary in appearance - color, solid proportions, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the CoC bottle labels and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
**May not be applicable if samples are not for compliance testing				*Excludes FOG, VOAs, TOC Vials, HEM

Client Contact Record

Contact Via: Phone Email Other: _____ Person Contacted: _____ Date/Time: _____

Discrepancy allowance agreement is on record in the client project file

Discussion / Resolution

One of the 1 litre bottle (3/4 full) was poured into 2 x 250 ml bottles per PM.

Any additional documentation and clarification from the client must be noted in the narrative and/or scanned into the CoC directory.

Reviewed by [Signature] Date: 12/1/2023

WI-MI-010_020720

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Eurofins - Cleveland Sample Receipt Form/Narrative Login # : _____
Barberton Facility

Client E. Michigan Site Name _____ Cooler unpacked by: _____
Cooler Received on 12-2-23 Opened on 12-2-23
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____
Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # 21 (CF 10.2 °C) Observed Cooler Temp. 4.1 °C Corrected Cooler Temp. 4.3 °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
 - Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 - Were tamper/custody seals intact and uncompromised? Yes No NA
 - 3. Shippers' packing slip attached to the cooler(s)? Yes No
 - 4. Did custody papers accompany the sample(s)? Yes No
 - 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
 - 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 - 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 - 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
 - 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
 - 10. Were correct bottle(s) used for the test(s) indicated? Yes No
 - 11. Sufficient quantity received to perform indicated analyses? Yes No
 - 12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719
 - 14. Were VOAs on the COC? Yes No
 - 15. Were air bubbles >6 mm in any VOA vials? Yes No NA  ← Larger than this.
 - 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
 - 17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

Chain of Custody Record

Company: Eurofins Environment Testing Northern Ca
 Address: 880 Riverside Parkway, West Sacramento, CA, 95605
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)
 Email:
 Project Name: Republic Ind & Eng Sol - F039- NOV
 Site:

Client Information (Sub Contract Lab)
 Client Contact: Schaller, Sue
 Shipping/Receiving: Sue.Schaller@el.eurofinsus.com
 State of Origin: Michigan
 Carrier Tracking No(s):
 Lab Pk#: Schaller, Sue
 E-Mail: Sue.Schaller@el.eurofinsus.com
 Accreditations Required (See note):

Due Date Requested: 12/14/2023
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 19001517
 SSON#: 190-33231-1

Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (In-water, Dry-oid, Over-satd, In-Humid, Aque)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	5290A/8290_P_Sep Project List	Total Number of Containers	Special Instructions/Note:
NOV 2023	F039 Comp. (190-33231-1)		Water		X	X	X	1	

Analysis Requested	Preservation Codes:
	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - Nitric Acid F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:
	M - Hexane N - None O - AsNHO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northern Central, LLC places the ownership of method, analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis in matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northern Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northern Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northern Central, LLC.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by:
 Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by:
 Custody Seals Intact: Yes No
 Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks: 16
 Date/Time: 12/11/23 10:00 AM
 Date/Time: 12/23/23 9:00 AM
 Date/Time:
 Received by: [Signature]
 Received by:
 Received by:
 Company: BEEA
 Company: [Signature]
 Company:
 Method of Shipment:
 Date/Time:
 Date/Time:
 Date/Time:
 Ver: 06/08/2021

Isotope Dilution Summary

Client: Republic Industrial and Energy Solutions
Project/Site: Republic Ind & Eng Sol - F039- NOV

Job ID: 190-33231-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)				
		HxCDD (40-135)	HxDD (40-135)	OCDD (40-135)	OCDF (40-135)	TCDD (40-135)
190-33231-1	NOV 2023 F039 Comp.	31 *5-	28 *5-	29 *5-	29 *5-	24 *5-
LCS 320-726676/2-A	Lab Control Sample	74	67	45	41	49
LCSD 320-726676/3-A	Lab Control Sample Dup	66	59	55	50	54
MB 320-726676/1-A	Method Blank	63	59	47	44	53

Surrogate Legend

HxCDD = 13C-1,2,3,4,7,8-HxCDD

HxDD = 13C-1,2,3,6,7,8-HxCDD

OCDD = 13C-OCDD

OCDF = 13C-OCDF

TCDD = 13C-2,3,7,8-TCDD

