BURNS McDONNELL

NORTHERN BIOGAS

TINEDALE WATER QUALITY TRADING PLAN

TINEDALE FARMS LLP

PROJECT NO. WI-0058947

REVISION 4.5

JULY 31, 2024

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Introduction

This water quality trading plan summarizes the plan for Tinedale Farms, LLP (Tinedale) in the Town of Wrightstown, Wisconsin, to use water quality trading to comply with total phosphorus (TP) and total suspended solids (TSS) discharge limits in its Wisconsin Discharge Elimination System (WPDES) permit for Outfall 001. Tinedale proposes a new discharge from their manure digester system. Tinedale has used the SnapPlus model to quantify the amount of potentially tradeable phosphorus and sediment credits from its fields assuming current farming practices continued, and then the amount after installation and maintenance of a permanent vegetative grassland. Using a trade ratio of 1.2:1, Tinedale calculated the TP and TSS water quality trading credits available per year based on the change in management practice from farming in corn and soybean rotation to permanent vegetative cover in two farm fields. Tinedale will use these credits to demonstrate compliance with the TP and TSS limits in their WPDES permit. Construction of the Tinedale Operations buildings will commence in March 2024, and end approximately in July 2024. Fields J Mom 4 and J Mom 5 will be converted to permanent grassland in the summer of 2024.

Background

Purpose of Water Quality Trade

This plan describes Tinedale's use of water quality trading to comply with the TP and TSS limits on Outfall 001 of WPDES permit WI-0058947.

The Tinedale Farm is located at NW ¼, SE ¼, Sec. 34, T22N, R19E, Town of Wrightstown, Brown County, Wisconsin. This farm is in the Apple Creek Watershed (040302040402). However, the discharge is proposed to be into the Fox River, located in the City of Green Bay-Fox River Watershed (Figures 1 and 2). This watershed is part of the Lower Fox River Total Maximum Daily Load (TMDL).

Waste streams generated from the proposed facility and the fate of the waste streams are outlined below:

A. Waste Streams generated on the farm:

    1. Manure, Bedding, and Parlor Wastewater
    2. Feed Storage Area Runoff and Leachate

B. After the bedding solids are taken out (post digestion) the remaining waste (~90%) is sent to the Aqua System and separated into three distinct products:

    1. Ultrafiltration Concentrate: Will be stored on site in storage lagoons and land applied.
    2. RO Concentrate: Will be stored on site in existing storage lagoons and land applied.
    3. Discharge water (Effluent): Discharged as discussed.

Figure 1. Pipe discharge map.

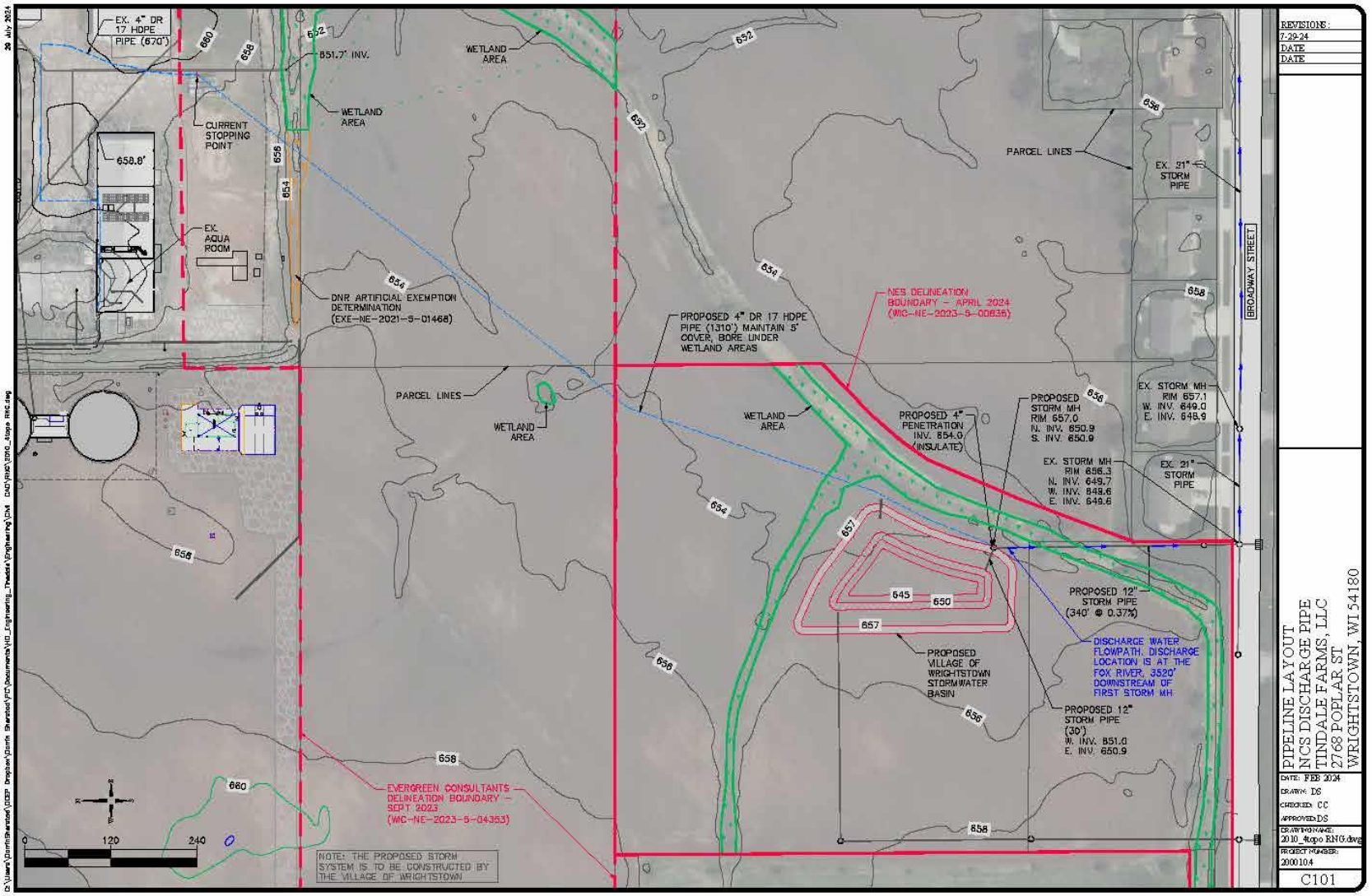
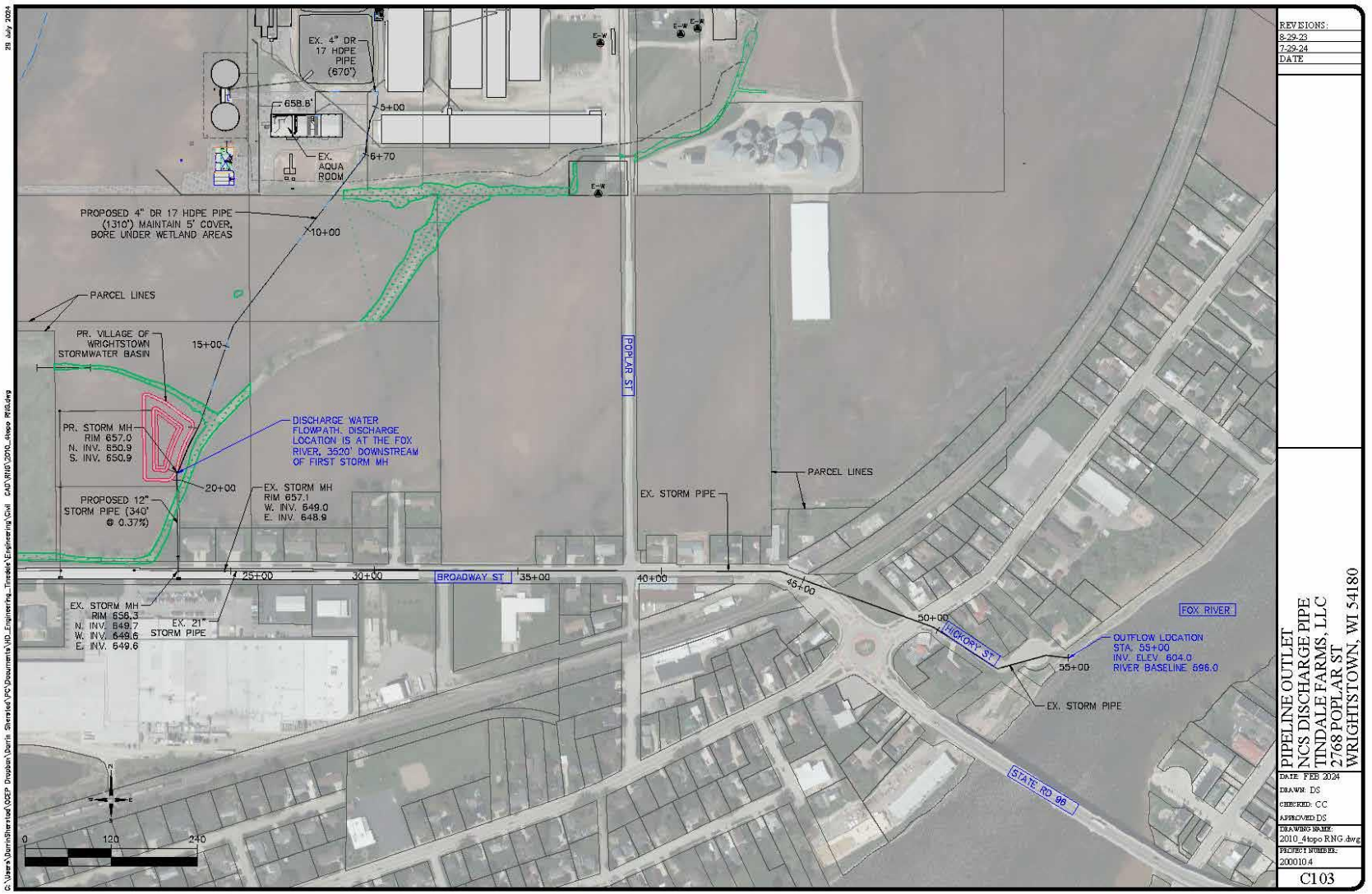


Figure 2. Pipe discharge map overview.



The proposed trade seeks to adjust cropping practices to two existing farm fields in the same HUC-10 watershed as Outfall 001, the Lower Fox TMDL sub-basin Lower Fox Mainstem. These fields will be placed into perennial vegetation and Tinedale will use the phosphorus and sediment credits generated from this management practice to comply with the TP and TSS limits specified in their WQBEL memo dated November 8, 2022. The TP and TSS mass-based limits for Tinedale is set to 0.00 pounds per day. Tinedale expects to need 4.9 pounds (lbs) of TP credits per year and 245 lbs of TSS per year assuming an average yearly design flow rate of 40,259 gallons per day (gpd; Appendix A). A summary of the design parameters of the proposed Aqua Clarifier may be found in Table 1, below. Updates to the operating parameters will be provided to the WDNR once the system is operational, and the Water Quality Trading Plan (WQT) may need to be updated accordingly.

Table 1. Summary of Proposed/Design discharge from the Aqua Clarifier.

Current System (from Aqua)						
Cows	Manure /Cow (gpd)	Total Cow Manure (gpd)	Leachate added (gpd)	Total Gallons In	33% ROP (gpd)	WQBEL Amount
3147	34	106,998	15,000	121,998	40,259	37,000

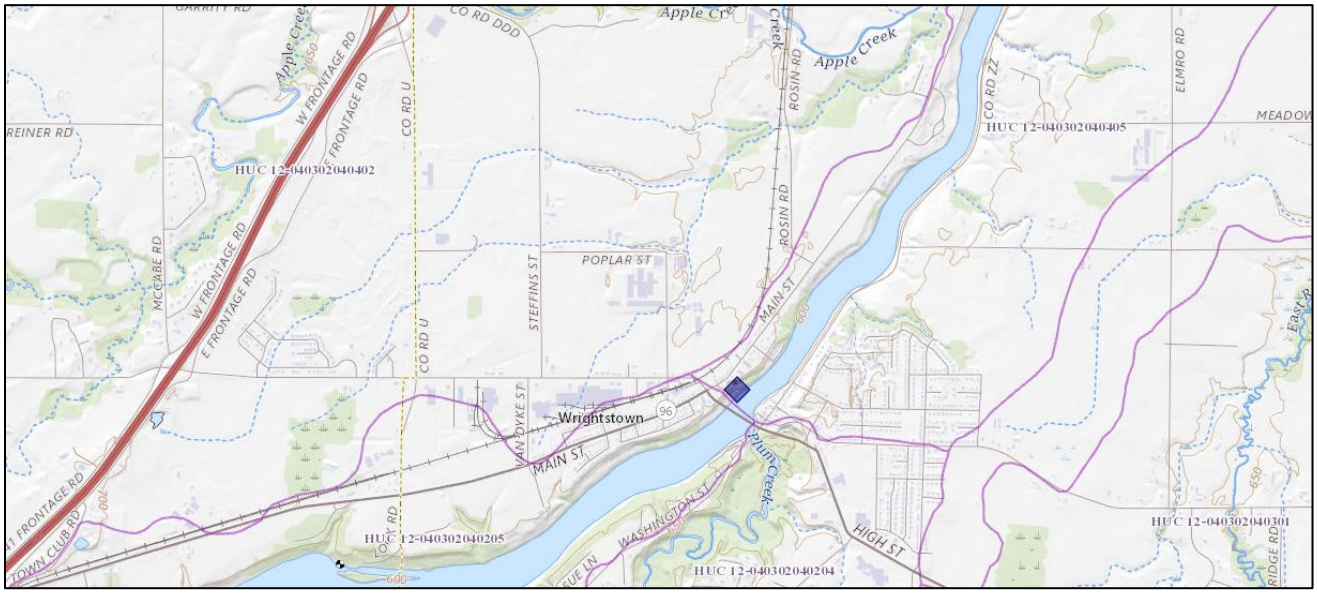
Purpose of New Surface Water Outfall

Tinedale is in the process of several updates to reduce the overall carbon footprint of the farm and generate renewable natural gas for distribution. Digester tanks were installed as part of this project in 2020. This project is also seeking to install a renewable natural gas upgrading system, hydrolysis tank, and associated infrastructure at the farm. Digestate will be generated from this tank and passed through the Aqua Clarifier treatment system prior to discharge to the Fox River via Wrightstown. Solids generated from this treatment process will be land applied consistent with the approved nutrient management plan for the farm.

Location of Outfall and Field

Tinedale will discharge treated process wastewater to the Fox River WBIC 117900 through Outfall 001 at approximate latitude of 44.32722°N and longitude of 88.16548°W. Outfall 001 is located in HUC12 Subwatershed 040302040405, which is also known as the City of Green Bay-Fox River Subwatershed. The City of Green Bay-Fox River Subwatershed is part of the larger Fox River Watershed (0403020404), which drains to Green Bay on its way to Lake Michigan. The City of Green Bay-Fox River Subwatershed is subject to the Lower Fox Total Maximum Daily Load (TMDL). Figure 3 below depicts the location of Outfall 001 in the Subwatershed.

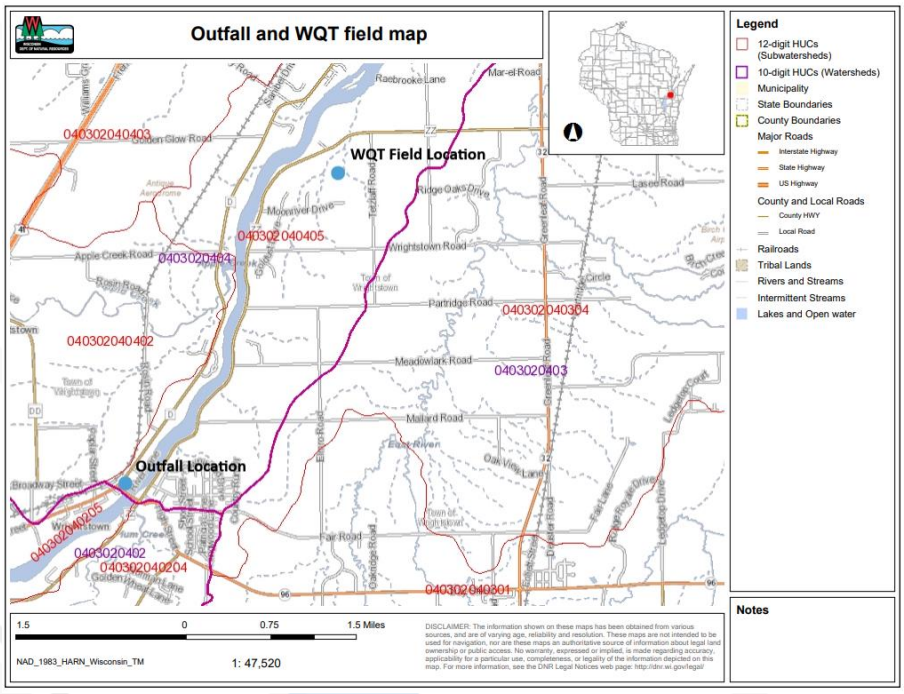
Figure 3. Outfall 001 in the HUC 12 watershed.



Location of the Fields

Tinedale will convert two existing farm fields into grassland to generate TP and TSS credits. The farm fields are currently named J Mom 4, a 17.3-acre field, and J Mom 5, a 13.8-acre field. Both of these fields are within the same HUC 10 watershed as the proposed Outfall 001 (Figure 4). The Project is within a non-point source TMDL area, and the field and outfall are in the same HUC 12. Based on the location of the credit generator and the point of standards application point, this is considered a downstream trade. These fields are located at SW ¼, NW ¼, Sec. 19, T22N, R20E (Figure 4).

Figure 4. Proposed WQT field in relation to Outfall 001.



Existing Land Use

Tinedale manages manure in accordance with its approved DNR nutrient management plan. Wisconsin's nutrient management software, SnapPlus (Version 20), was used to calculate phosphorus and sediment loadings to ensure Tinedale is complying with applicable CAFO nutrient management standards.

Routine soil sampling occurs on these fields every three years. The most recent soil samples for these fields occurred on August 15, 2021. Further details are provided in Table 2, below.

Table 2. J Mom 4 and J Mom 5 field soil test data.

Field	Soil Test Date	Predominant Soil Map Symbol	Predominant Soil Name	Soil Test Lab	Lab Number	pH	OM Percent	Avg P (ppm)	Avg K (ppm)
J Mom 4	2021-07-15	OnA	OSHKOSH	AgSource	775264	6.6	3.7	20	148
J Mom 5	2021-07-15	OnB	OSHKOSH	AgSource	775264	6.9	2.5	22	100

J Mom 4 is in a soybean, winter wheat, and corn grain rotation, while J Mom 5 is in an alfalfa rotation. Liquid manure and fertilizer are applied to these fields annually.

Tables 3 and 4 provide a summary of the current cropping rotation and phosphorus (PTP) and sediment loadings from this rotation for each field. The SnapPlus P-Trading Report and Sediment Trading Report were used to generate these current loadings and the SnapPlus databases will be provided to the WDNR with the submittal of this Plan.

Table 3. Current sediment and PTP loads at J Mom 4 field.

	2021	2022	2023	2024	2025	2026	2027	2028	Average	Total
Crop Rotation	Winter Wheat to Cover Crop	Corn Grain	Soybeans	Corn Grain	Winter Wheat to Cover Crop	Corn Grain	Soybeans	Corn Grain	-	-
PTP (lbs/yr)	7	12	17	19	7	12	18	19	13.9	111
Sediment (Tons/yr)	0.5	0.3	0.3	0.8	0.5	0.3	0.3	0.8	0.48	3.8

Table 4. Current sediment and PTP loads at J Mom 5 field.

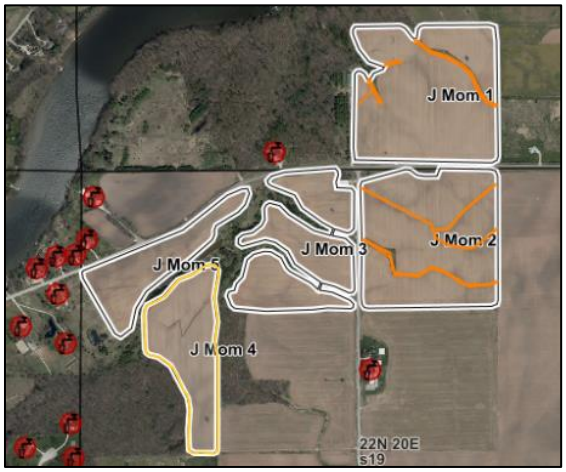
	2021	2022	2023	2024	2025	2026	2027	2028	Average	Total
Crop Rotation	Winter Wheat to Cover Crop	Corn Grain	Soybeans	Alfalfa	Alfalfa	Alfalfa	Corn Gran	Soybeans	-	-
PTP (lbs/yr)	26	26	23	21	22	14	29	13	21.8	174
Sediment (Tons/yr)	2.0	1.4	0.8	2.1	1.5	0.9	2.0	1.0	1.46	11.7

Trading Credits

Phosphorus and Sediment Reduction

Tinedale proposes to convert J Mom 4 and J Mom 5 fields to permanent grassland (Figure 5).

Figure 5. Proposed WQT fields J Mom 4 and J Mom 5.



Permanent native prairie vegetative cover was planted in fields J Mom 4 and J Mom 5 in the summer of 2024, consistent with NRCS Technical Standard 327, with native plants selected according to the Table 6 Sample Seed Mix for Mesic Native Prairie Restoration (Seed Calculator Code 327-8). See Appendix B for the NRCS technical standard and selected Conservation Practice Standard with Table 6 and the native vegetation seed mix. Herbicide was applied to the field to prepare for seed installation. The native seed mixture was combined with oats to be seeded as a cover crop and rapidly establish cover and erosion control during the initial establishment of perennial vegetation. Interseeding will occur, as needed, to ensure that the standards and requirements of NRCS Technical Standard 327 are satisfied. No nutrients will be applied to the field and vegetation will not be harvested once planted.

Table 5 contains a summary of the P-Trade and Sediment Reports for the J Mom 4 field through 2028. After 2026, the phosphorus and sediment loading of the J Mom 4 field becomes stable. The sediment loading would continue to be 0.0 tons per year (tons/yr) and the phosphorus loading would be 2 pounds per year (lbs/yr) so long as permanent vegetative cover is maintained after 2026. See SnapPlus databases included with this submittal for the P-Trading and Sediment Trading Reports through 2028, and for additional information (Appendix C).

Table 5. Sediment and PTP loads after converting J Mom 4 to grassland.

	2021	2022	2023	2024	2025	2026	2027	2028	Average	Total
Crop Rotation	Winter Wheat to Cover Crop	Corn Grain	Soybeans	Grassland	Grassland	Grassland	Grassland	Grassland	-	-
PTP (lbs/yr)	7	12	17	9	3	2	2	2	6.75	54
Sediment (Tons/yr)	0.5	0.3	0.3	0.7	0.0	0.0	0.0	0.0	0.23	1.8

Table 6. Sediment and PTP loads after converting J Mom 5 to grassland.

	2021	2022	2023	2024	2025	2026	2027	2028	Average	Total
Crop Rotation	Winter Wheat to Cover Crop	Corn Grain	Soybeans	Grassland	Grassland	Grassland	Grassland	Grassland	-	-
PTP (lbs/yr)	26	26	23	14	3	3	3	3	12.63	101
Sediment (Tons/yr)	2.0	1.4	0.8	1.3	0.1	0.0	0.0	0.0	0.70	5.6

Interim Credits

Pursuant to the most recent DNR water quality trading guidance (3200-3400-3800-2020-03, dated 6/1/2020), permanent vegetation has an uncertainty factor of 1:1. Given that this is a non-point source TMDL, and the point of discharge lies within the City of Green Bay-Fox River watershed (Appendix D), the credit user's load as a percentage of total in-stream load is less than 25 percent, and therefore a downstream trading factor of 0.1 is applied to the ratio. There is no downstream equivalency or delivery factor that needs to be accounted for. The calculated minimum trade ratio that applies to this trade is 1.1:1. However, the minimum trade ratio is 1.2:1 for non-point to point source trades. Therefore, the final trade ratio for this trade is 1.2:1.

Tables 7 and 8 list the available interim credits from this project. These credits are fully available for the first 10 years that the WQT is in place. It is noted that excess interim credits will be generated by this project, as compared to the offset needed for the proposed discharge requirement of 4.9 PTP (lbs/yr).

Combined interim credits from both fields were then calculated for each year and highlighted in Table 9.

Table 7. Interim sediment and phosphorus credit calculation for Field J Mom 4.

Current (from Table 3)

	2021	2022	2023	2024	2025	2026	2027	2028	Average	Total
Crop Rotation	Winter Wheat to Cover Crop	Corn Grain	Soybeans	Corn Grain	Winter Wheat to Cover Crop	Corn Grain	Soybeans	Corn Grain	-	-
PTP (lbs/yr)	-	-	-	19	7	12	18	19	15	75
Sediment (Tons/yr)	-	-	-	0.8	0.5	0.3	0.3	0.8	0.54	2.7

Reduction (from Table 4)

	2021	2022	2023	2024	2025	2026	2027	2028	Average	Total
Crop Rotation	Winter Wheat to Cover Crop	Corn Grain	Soybeans	Grassland	Grassland	Grassland	Grassland	Grassland	-	-
PTP (lbs/yr)	-	-	-	9	3	2	2	2	3.6	18
Sediment (Tons/yr)	-	-	-	0.7	0.0	0.0	0.0	0.0	0.14	0.7

Credit

	2021	2022	2023	2024	2025	2026	2027	2028	Average	Total
Trade Ratio	-	-	-	1.2:1	1.2:1	1.2:1	1.2:1	1.2:1	-	-

Total Interim Phosphorus Credits (lbs)	-	-	-	10	4	10	16	17	11.4	57
Final Phosphorous Credit (lbs)	-	-	-	8.3	3.3	8.3	13.3	14.2	9.5	47

Total Interim Sediment Credits (lbs)	-	-	-	200	1000	600	600	1600	800	4000
Final Sediment Credits (lbs)	-	-	-	167	833	500	500	1333	667	3333

Table 8. Interim sediment and phosphorus credit calculation for Field J Mom 5.

Current (from Table 3)

	2021	2022	2023	2024	2025	2026	2027	2028	Average	Total
Crop Rotation	Winter Wheat to Cover Crop	Corn Grain	Soybeans	Alfalfa	Alfalfa	Alfalfa	Corn Gran	Soybeans	-	-
PTP (lbs/yr)	-	-	-	21	22	14	29	13	19.8	99
Sediment (Tons/yr)	-	-	-	2.1	1.5	0.9	2.0	1.0	1.5	7.5

Reduction (from Table 4)

	2021	2022	2023	2024	2025	2026	2027	2028	Average	Total
Crop Rotation	Winter Wheat to Cover Crop	Corn Grain	Soybeans	Grassland	Grassland	Grassland	Grassland	Grassland	-	-
PTP (lbs/yr)	-	-	-	14	3	3	3	3	5.2	26
Sediment (Tons/yr)	-	-	-	1.3	0.1	0.0	0.0	0.0	0.28	1.4

Credit

	2021	2022	2023	2024	2025	2026	2027	2028	Average	Total
Trade Ratio	-	-	-	1.2:1	1.2:1	1.2:1	1.2:1	1.2:1	-	-
Total Interim Phosphorus Credits (lbs)	-	-	-	7	19	11	26	10	14.6	73
Final Phosphorous Credit (lbs)	-	-	-	5.8	15.8	9.2	21.7	8.3	12.2	61
Total Interim Sediment Credits (lbs)	-	-	-	1600	2800	1800	4000	2000	2440	12200
Final Sediment Credit (lbs)	-	-	-	1333	2333	1500	3333	1667	2033	10166

Table 9. Combined Interim Credits from J Mom 4 and 5 Grassland Conversion.

Credit

	2024	2025	2026	2027	2028	Average	Total
Trade Ratio	1.2:1	1.2:1	1.2:1	1.2:1	1.2:1	-	-
Total Final Phosphorus Credits (lbs)	14.1	19.1	17.5	35	22.5	21.6	108.2
Total Final Sediment Credit (lbs)	1500	3166	2000	3833	3000	2700	13499

Long-term Credits

As stated in Table 2 and Table 3 of the WQT Guidance, the Lower Fox TMDL TP Credit Threshold for the Lower Fox River (main stem) is 1.00 lbs/ac/yr and the TSS Credit Threshold is 0.96 tons/ac/year. With this plan to seed permanent vegetative cover, sediment loading and PTP loading in J Mom 4 normalize after 2025 to 0.0 tons/yr and 2 lbs/yr, and J Mom 5 normalizes to 0 tons/yr and 3 lbs/yr respectively, so long as permanent vegetation is maintained. Table 10 summarizes the available long-term phosphorus credits available as a result of this project.

Table 10. Long-term TP credit calculation.

2034+	J Mom 4 (17.3 ac)	J Mom 5 (13.8 ac)
TMDL Credit Threshold (lbs/ac/yr)	1	1
Total (lb/yr)	15	19.8
Baseline (lbs/ac/yr)	0.867	1.435
Post-Mitigation (lb/yr)	3.6	5.2
Post-Mitigation Baseline (lbs/ac/yr)	0.208	0.377
Baseline/Post-Mitigation Difference (lbs/ac/yr)	0.659	0.623
Trade Ratio	1.2:1	1.2:1
Final Credit (lbs/acr/yr)	0.549	0.519
Final Credit (lbs/yr)	9.5	7.2
Grand Total (lbs/yr)	16.7	

The TSS credit threshold of 0.96 tons/ac/yr is greater than the baseline condition of the J Mom 4 field; therefore, the interim credits specified in Table 7 will also represent the long-term credits for TSS for J Mom 4. The TSS credit threshold of 0.96 tons/ac/yr is lower than the baseline condition of J Mom 5, and therefore long-term credits will be used, as outlined in Table 11, below.

Table 11. Long-term TSS credit calculation.

2034+	J Mom 4 (17.3 ac)	J Mom 5 (13.8 ac)
TMDL Credit Threshold (tons/ac/yr)	0.96	0.96
Total (tons/yr)	0.54	1.5
Baseline (tons/ac/yr)	0.031	0.109
Post Mitigation (tons/yr)	0.14	0.28
Post-Mitigation (tons/ac/yr)	0.0081	0.02
Baseline/Post-Mitigation (tons/ac/yr)	0.023	0.088
Trade Ratio	1.2:1	1.2:1
Final Credit (tons/ac/yr)	0.019	0.074
Final Credit (tons/yr)	0.333	1.02
Final Credit (tons/yr)	**1.35**	
Final Credit (lbs/yr)	**2700**	

Agreements, Inspection, and Reporting

Water Quality Trading Agreement

Tinedale is the owner and operator of the proposed effluent discharge, while the Tetzlaff John Family LTD Partnership (landowner) is the landowner of the trade field. Therefore, a Water Quality Trading Agreement is required between the landowner and Tinedale. This agreement is available in Appendix E. In the event that the two parties terminate the trade agreement, the WDNR will be notified immediately, as appropriate.

Water Quality Trading Management Practice Registration

Tinedale completed Registration Form 3400-207 for Water Quality Trading Management Practice Registration. See Appendix F for details.

Monthly Certification

Each month, Tinedale will certify that the permanent vegetative cover management practice is operated and maintained in a manner consistent with this Water Quality Trading Plan or provide a statement noting noncompliance with this Plan. Monthly inspections will be conducted and include:

- Representative photos of the field overall
    - Close ups showing the density of vegetative cover.
    - Any photos taken will be included in the Annual Inspection Report.
- Walk-through of field to investigate for:
    - Erosion
    - Rodent Burrows
    - Sufficient ground cover:
        - Plant diversity
        - Density
        - Overall ecological health
    - Noxious weeds
    - Compliance with permanent vegetative management practices.
    - Compliance with NRCS Technical Standard 327

A certification of compliance shall be made by including the following statement as a comment on the monthly discharge monitoring report:

> *I certify that to the best of my knowledge, the management practice identified in the approved water quality trading plan as the source of total phosphorus and total suspended solid reduction credits is installed, established, and properly maintained.*

Any observations that the field is not in compliance with the permanent vegetative management practice will be addressed immediately. Tinedale will notify WDNR by a telephone call to WDNR's regional wastewater compliance engineer within 24 hours after becoming aware that WQT credits used or intended for use by Tinedale are not being implemented or generated as set forth in this Trading Plan. Tinedale will follow up with a written notice to WDNR's regional wastewater compliance engineer within five (5) days after Tinedale becomes aware that the phosphorus and/or sediment credits are not being implemented or generated as set forth in this Plan. WDNR may waive the requirement for submittal of a written notice within five days and instruct Tinedale to submit the written notice with the next regularly scheduled monitoring report required by the WPDES Permit. The written notice will contain a description of how and why the WQT credits are not being implemented or generated as set forth in this Plan; the steps taken or planned to reduce, eliminate, and prevent the reoccurrence of the identified problem; and the length of time the identified problem is expected to continue. Tinedale will work to rectify the identified problem in accordance with this Plan.

Annual Inspections

Once per year, a certified professional agronomist (CPA) hired by Tinedale will inspect the J Mom 4 and J Mom 5 fields to confirm the continuation of the permanent vegetative cover management practice and that the management practice is being appropriately maintained. The inspection will confirm compliance with the appropriate standards and identify any erosion issues. This annual inspection will include one (1) overall site photo for each J Mom 4 and J Mom 5, and at least two (2) close-up photos for every 5 acres. This will total to eight (8) photos for J Mom 4 and six (6) photos for J Mom 5, in addition to the overall site photo for each. The inspector will also take notes regarding plant diversity, density, overall ecological health, and any erosion issues. The inspection reports will include:

- The name of the inspector;
- The inspection date;
- A statement of whether the field met Tech Standard 327;
- Whether erosion concerns were identified and, if so, what those concerns are;
- When and how any compliance issues with standards and erosion were addressed;
- When and how any identified issues with meeting standards and erosion concerns will be addressed in the future.
- Inspection reports generated during each inspection will be included with the Annual Water Quality Trading Report submitted by Tinedale.

APPENDIX A – WQT ENGINEERING LETTER

NORTHCOAST POWER SYSTEMS, LLC

January 26, 2024

Aubree Zenone
Burns & McDonnel

RE: TINEDALE FARMS – WQT ENGINEERING CALCULATIONS FOR EFFLUENT DISCHARGE

Aubree:

We understand that Burns & McDonnel is completing a Water Quality Trade (WQT) for the TMDL offset needs of the effluent discharge for the proposed Aqua Innovations wastewater treatment system at Tinedale Farms (2768 Poplar Street, Wrightstown, WI). Based on your request for information, the following is a summary of the effluent information.

Discharge Flow Metrics

- At current herd size, the farm is planning for a maximum effluent discharge rate of 40,259 gallons per day. The discharge pump would be anticipated to operate 12 hours per day (56 gpm).
- The effluent will be conveyed from the Aqua Innovations building to a stormwater manhole through 1420' of 4" DR 17 HDPE pipe. From the manhole, effluent will be conveyed 3850' through existing Village of Wrightstown stormwater culverts until outletting in the Fox River.

Lab Data to Support Discharge Concentrations

- Based on prior effluent discharge permitting for new Aqua Innovations Systema and historical data from the Aqua Site at Springfield, WI, the following pollutant concentrations in the discharge effluent have been determined for planning purposes:
  - 0.04 mg/l for phosphorus (TP) and
  - 2.00 mg/l total suspended solids (TSS)
- Attachment K from the 2023 WPDES renewal package for the Aqua Innovations System Discharge at Springfield, WI is included with this letter as verification for the pollutant concentrations used in effluent calculations.

Pounds of Pollutants Being Discharged

- Tinedale Farms is planning to discharge:
  - 4.9 lbs of phosphorus (TP) per year and
  - 245 lbs of total suspended solids (TSS) per year

Discharge Dates

- Tinedale Farms is proposing to begin discharging in the beginning of Q2 2024 (4-1-24).

NORTHCOAST POWER SYSTEMS, LLC

Evaluation of Conservation Measures

- Permitted effluent discharge volume expected from the forced draft aerator is anticipated to be conservative. The effluent gpd submitted is the total volume expected to be created but does not take recycling and reuse of the water into consideration. Effluent water is recycled for flushing the Ultrafiltration and Reverse Osmosis units and utilized for all clean-in-place functions in the Aqua Innovations system. The amount of effluent recycled is site dependent as varying influent conditions will change the frequency of flushing and cleaning, but we would estimate no less than 20% of the effluent to be used daily. Additionally, there is a customer use storage tank that will be continually filled for reuse of the effluent for on farm non-potable water demand.

I believe this information should satisfy the requirements for DNR submittal. If you have any questions or comments, please contact me at darrin@northcoast-power.com.

Sincerely,
Darrin Sherstad, PE

Attachments:

- Tinedale Farms Discharge Calculation Summary
- Attachment K: Wastewater Discharge Annual Reports (2023 Springfield WPDES Renewal)

Current System (from Aqua)						
Farm	Cows	Manure /Cow (gpd)	Total Cow Manure (gpd)	Leachate added (gpd)	Total Gallons In	33% ROP (gpd)
TINEDALE	3147	34	106,998	15,000	121,998	40,259

Betley		
(From Aqua Upgraded System Cap.)		
Flow Rate	40,259	gal/day
TP Conc.	0.0400	mg/L
TSS Conc.	2.00	mg/L

Pollutant Discharge		
TP	**4.91**	lbs/yr
TSS	**245**	lbs/yr

Conversion Ratios			
1	gallon	3.785	Liters
1	mg	0.000001	kg
1	kg	2.205	lbs

Attachment K

Wastewater Discharge Annual Reports

2021 & 2022 Annual Report Summary

2021 Annual Report Summary					
Month	Days In Month	Avg. Discharge (gpd)	Adjusted Monthly Total Discharge (gal)	Avg. Effluent TP Conc. (mg/L)*	Avg Effluent TSS. Conc. (mg/L)**
January	31	-	-	-	-
February	28	-	-	-	-
March	31	-	-	-	-
April	30	-	-	-	-
May	31	-	-	-	-
June	30	-	-	-	-
July	31	-	-	-	-
August	31	1,720	53,319	0.011	0.10
September	30	-	-	-	-
October	31	5,977	185,291	0.011	0.10
November	30	-	-	-	-
December	31	3,126	96,893	0.070	0.10
	Averages	902	335,503	0.03	0.10
			Annual Total Discharge (lbs)	0.09	0.28

2022 Annual Report Summary					
Month	Days In Month	Avg. Discharge (gpd)	Adjusted Monthly Total Discharge (gal)	Avg. Effluent TP Conc. (mg/L)*	Avg Effluent TSS. Conc. (mg/L)**
January	31	3,937	122,061	0.050	0.10
February	28	2,669	74,727	0.011	0.10
March	31	6,028	186,879	0.011	0.10
April	30	1,399	41,965	0.011	3.00
May	31	7,563	234,452	0.011	0.10
June	30	4,896	146,868	0.053	0.10
July	31	14,713	456,092	0.011	0.10
August	31	10,606	328,789	0.128	0.10
September	30	6,348	190,450	0.066	0.10
October	31	5,725	177,479	0.016	0.10
November	30	1,003	30,097	0.040	0.10
December	31	1,062	32,937	0.011	0.10
	Averages	5,496	2,022,795	0.035	0.34
			Annual Total Discharge (lbs)	**0.59**	**5.76**

*TP detection limit is 0.011 mg/L, in cases where test results were 'non-detect', the detection limit value was used as the concentration value

**TSS detection limit is 2 mg/L, in cases where tests results were 'non-detect', a value of 0.1 mg/L was used based off previous research

2021
Wastewater Discharge
Annual Report

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 01/01/2021 - 01/31/2021
Form Due Date: 02/21/2021
Permit Number: 0065889

Date Received:	
DOC:	462435
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
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	12	0				
	13	0				
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	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		10			
	Monthly Total					
	Daily Max		16	9		
	Daily Min			6	7	
	Weekly Avg		10			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
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	7					
	8					
	9					
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	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	98				
	Daily Min					
	Weekly Avg	57	9.90			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
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	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
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	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
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	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by vjchandelia(vjchandelia) on 7/7/2021 11:40:33 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 02/01/2021 - 02/28/2021
Form Due Date: 03/21/2021
Permit Number: 0065889

Date Received:	
DOC:	462436
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
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	29					
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	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		10			
	Monthly Total					
	Daily Max		16	9		
	Daily Min			6	7	
	Weekly Avg		10			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
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	8					
	9					
	10					
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	12					
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	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	98				
	Daily Min					
	Weekly Avg	58	9.90			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
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	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
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	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
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	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by vjchandelia(vjchandelia) on 7/7/2021 11:44:08 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 03/01/2021 - 03/31/2021
Form Due Date: 04/21/2021
Permit Number: 0065889

Date Received:	
DOC:	462437
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		10			
	Monthly Total					
	Daily Max		16	9		
	Daily Min			6	7	
	Weekly Avg		10			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
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	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	97				
	Daily Min					
	Weekly Avg	59	9.90			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
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	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
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	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by vjchandelia(vjchandelia) on 7/7/2021 11:44:30 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 04/01/2021 - 04/30/2021
Form Due Date: 05/21/2021
Permit Number: 0065889

Date Received:	
DOC:	469008
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
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	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		10			
	Monthly Total					
	Daily Max		16	9		
	Daily Min			6	7	
	Weekly Avg		10			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
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	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	95				
	Daily Min					
	Weekly Avg	59	6.10			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
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	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by vjchandelia(vjchandelia) on 7/7/2021 11:45:05 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 05/01/2021 - 05/31/2021
Form Due Date: 06/21/2021
Permit Number: 0065889

Date Received:	
DOC:	469009
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
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	24	0				
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	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5			400
	Monthly Total					
	Daily Max		8.20	9		400
	Daily Min			6	7	
	Weekly Avg		5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
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	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	94				
	Daily Min					
	Weekly Avg	69	6.10			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
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	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
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	21					
	22					
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	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by vjchandelia(vjchandelia) on 7/7/2021 11:45:34 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 06/01/2021 - 06/30/2021
Form Due Date: 07/21/2021
Permit Number: 0065889

Date Received:	
DOC:	469010
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
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	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5			400
	Monthly Total					
	Daily Max		8.20	9		400
	Daily Min			6	7	
	Weekly Avg		5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
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	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	93				
	Daily Min					
	Weekly Avg	81	5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
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	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
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	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
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	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by vjchandelia(vjchandelia) on 7/7/2021 11:46:03 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 07/01/2021 - 07/31/2021
Form Due Date: 08/21/2021
Permit Number: 0065889

Date Received:	
DOC:	474386
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	0									
	Monthly Total										
	Daily Max	0									
	Daily Min	0									
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
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	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**										
	Monthly Total										
	Daily Max										
	Daily Min										
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	93	0								
	Daily Min										
	Weekly Avg	87	0	5	0						
QA/QC Information	**LOD**										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
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	31					

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**														
	Monthly Total														
	Daily Max														
	Daily Min														
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**														
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification														

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
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	19					
	20					
	21					
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	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0 0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 3/24/2022 9:35:03 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 08/01/2021 - 08/31/2021
Form Due Date: 09/21/2021
Permit Number: 0065889

Date Received:	
DOC:	474387
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	8167	6	6.6	7.57	1
	20	9100				
	21	12559				
	22	8862				
	23	3181				
	24	6251	4	6.8	7.43	<1
	25	5199				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	1719.967741935		5		6.7		7.5		0.5	
	Monthly Total										
	Daily Max	12559		6		6.8		7.57		1	
	Daily Min	0		4		6.6		7.43		<1	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg			6							
	Week 4 Avg			4							
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19		3.4	<0.011		
	20					
	21					
	22					
	23					
	24		3.955	<0.011		
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**			3.6775		0					
	Monthly Total										
	Daily Max			3.955		<0.011					
	Daily Min			3.4		<0.011					
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg			3.4							
	Week 4 Avg			3.955							
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	93	0								
	Daily Min										
	Weekly Avg	88		5	0						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19			<2		
	20					
	21					
	22					
	23					
	24			<2		
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**					0									
	Monthly Total														
	Daily Max					<2									
	Daily Min					<2									
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**														
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0 0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 4/4/2022 5:12:14 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 09/01/2021 - 09/30/2021
Form Due Date: 10/21/2021
Permit Number: 0065889

Date Received:	
DOC:	474388
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	0									
	Monthly Total										
	Daily Max	0									
	Daily Min	0									
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	21					
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	24					
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	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**										
	Monthly Total										
	Daily Max										
	Daily Min										
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	93	0								
	Daily Min										
	Weekly Avg	80	0	5	0						
QA/QC Information	**LOD**										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
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	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**														
	Monthly Total														
	Daily Max														
	Daily Min														
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**														
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification														

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
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	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 4/5/2022 8:37:59 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 10/01/2021 - 10/31/2021
Form Due Date: 11/21/2021
Permit Number: 0065889

Date Received:	
DOC:	480803
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	10185				
	2	11918				
	3	10636				
	4	15737	8	6.75	7.43	
	5	9015				
	6	8179				
	7	8493				
	8	11014		6.59	7.53	
	9	15720				
	10	17876				
	11	9741	2	6.54	7.61	
	12	8097	6	9.94	7.48	<1
	13	11302				
	14	9252		6.86	7.50	
	15	0				
	16	11139				
	17	12234				
	18	4753				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	5977.129032258		5.333333333		7.336		7.51		0	
	Monthly Total										
	Daily Max	17876		8		9.94		7.61		<1	
	Daily Min	0		2		6.54		7.43		<1	
	Week 1 Avg			8							
	Week 2 Avg			4							
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0						
	Monthly Total										
	Daily Max			8.20	0	9	0				
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12		2.931	<0.011		
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**			2.931		0					
	Monthly Total										
	Daily Max			2.931		<0.011					
	Daily Min			2.931		<0.011					
	Week 1 Avg										
	Week 2 Avg			2.931							
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	96	0								
	Daily Min										
	Weekly Avg	67	0	9.90	0						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12			<2		
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**					0									
	Monthly Total														
	Daily Max					<2									
	Daily Min					<2									
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**														
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
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	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
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	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 4/5/2022 9:11:30 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 11/01/2021 - 11/30/2021
Form Due Date: 12/21/2021
Permit Number: 0065889

Date Received:	
DOC:	480804
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		10	0							
	Monthly Total										
	Daily Max		16	0	9	0					
	Daily Min				6	0	7	0			
	Weekly Avg		10	0							
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
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	24					
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	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**										
	Monthly Total										
	Daily Max										
	Daily Min										
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	996	0								
	Daily Min										
	Weekly Avg	54	0	9.90	0						
QA/QC Information	**LOD**										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
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	22					
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	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	1343		1344		457		457		457	
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total	
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**										
	Monthly Total										
	Daily Max										
	Daily Min										
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**					10	0				
	Monthly Total			0	0						
	Daily Max					16	0				
	Daily Min										
	Weekly Avg										
QA/QC Information	**LOD**										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
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	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 4/5/2022 9:21:35 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 12/01/2021 - 12/31/2021
Form Due Date: 01/21/2022
Permit Number: 0065889

Date Received:	
DOC:	480805
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	8070	3	6.8	7.37	<1
	17	10262				
	18	9287				
	19	9089				
	20	2765				
	21	10963		6.7	7.40	
	22	13172				
	23	9509				
	24	9152				
	25	11194				
	26	3430				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	3125.580645161		3		6.75		7.385		0	
	Monthly Total										
	Daily Max	13172		3		6.8		7.4		<1	
	Daily Min	0		3		6.7		7.37		<1	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg			3							
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			10	0						
	Monthly Total										
	Daily Max			16	0	9	0				
	Daily Min					6	0	7	0		
	Weekly Avg			10	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16		2.83	0.070		
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**			2.83		0.07					
	Monthly Total										
	Daily Max			2.83		0.07					
	Daily Min			2.83		0.07					
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg			2.83							
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	97	0								
	Daily Min										
	Weekly Avg	56	0	9.90	0						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16			<2		
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**					0									
	Monthly Total														
	Daily Max					<2									
	Daily Min					<2									
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**														
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0 0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 4/6/2022 11:28:38 AM

2022
Wastewater Discharge
Annual Report

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 01/01/2022 - 01/31/2022
Form Due Date: 02/21/2022
Permit Number: 0065889

Date Received:	
DOC:	486126
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	3105		7.1	7.69	
	12	6071				
	13	3579	<2			<1
	14	6088				
	15	5809				
	16	9585				
	17	6529				<1
	18	3179				
	19	15056				
	20	11043	5	6.9	7.58	
	21	7366				
	22	6114				
	23	15438				
	24	6067		6.7	7.53	
	25	2354				
	26	0				
	27	5966				<1
	28	5534				
	29	3178		7.0	7.63	
	30	0				
	31	0				

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	3937.451612903		2.5		6.925		7.6075		0	
	Monthly Total										
	Daily Max	15438		5		7.1		7.69		<1	
	Daily Min	0		<2		6.7		7.53		<1	
	Week 1 Avg										
	Week 2 Avg			0							
	Week 3 Avg			5							
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			10	0						
	Monthly Total										
	Daily Max			16	0	9	0				
	Daily Min					6	0	7	0		
	Weekly Avg			10	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13		1.969	0.030	.00089547	
	14					
	15					
	16					
	17		2.438	0.050	.00272259	
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27		3.263	0.070	.00348295	
	28					
	29					
	30					
	31					0.042606

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**			2.556666667		0.05		0.002367003		0.042606	
	Monthly Total										
	Daily Max			3.263		0.07		0.00348295		0.042606	
	Daily Min			1.969		0.03		0.00089547		0.042606	
	Week 1 Avg										
	Week 2 Avg			1.969							
	Week 3 Avg			2.438							
	Week 4 Avg			3.263							
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	98									
	Daily Min										
	Weekly Avg	57		9.90	0						
QA/QC Information	**LOD**			0.127		0.11*Footnote					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

*Footnote: QA/QC Information is not identical for each day, so the value shown is the maximum of all values for LOD/LOQ data or the first Lab found for Lab Cert data.

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13			<2	0	
	14					
	15					
	16					
	17			<2	0	
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27			<2	0	
	28					
	29					
	30					
	31	.042606	0			0

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**	0.042606		0		0		0		0					
	Monthly Total			0											
	Daily Max	0.042606		0		<2		0		0					
	Daily Min	0.042606		0		<2		0		0					
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**					3*Footnote									
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

*Footnote: QA/QC Information is not identical for each day, so the value shown is the maximum of all values for LOD/LOQ data or the first Lab found for Lab Cert data.

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31	0	0			

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**	0	0			
	Monthly Total		0			
	Daily Max	0	0			
	Daily Min	0	0			
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0	0		
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	606				
	2	160				
	3	0				
	4	0				
	5	0				
	6	1660				
	7	30127				
	8	42482				
	9	35901				
	10	1583				
	11	9751				
	12	26582				
	13	18208				
	14	25478				
	15	24128				
	16	35066				
	17	31585				
	18	19665				
	19	56185				
	20	43510				
	21	36007				
	22	33448				
	23	53866				
	24	29331				
	25	13163				
	26	307				
	27	22799				
	28	24689	33.369	10.06	5.65	4.521
	29	9667				
	30	596				
	31	394				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	20224	33.369	10.06	5.65	4.521
	Monthly Total					
	Daily Max	56185	33.369	10.06	5.65	4.521
	Daily Min	0	33.369	10.06	5.65	4.521
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 7/7/2022 1:57:36 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 02/01/2022 - 02/28/2022
Form Due Date: 03/21/2022
Permit Number: 0065889

Date Received:	
DOC:	486127
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	5769	<2	6.3	7.53	
	10	5964	2	6.2		<1
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	2185	<2	7.1	7.43	<1
	17	0				
	18	0				
	19	0				
	20	0				
	21	7747	<2	7.1	7.51	<1
	22	2437				
	23	7313	2	6.9	7.31	
	24	6457	2			
	25	6511				
	26	11463				
	27	5355				
	28	13526	2	6.8	7.49	
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	2668.821428571		1.142857143		6.733333333		7.454		0	
	Monthly Total										
	Daily Max	13526		2		7.1		7.53		<1	
	Daily Min	0		<2		6.2		7.31		<1	
	Week 1 Avg										
	Week 2 Avg			1							
	Week 3 Avg			0							
	Week 4 Avg			2							
Limit(s) in Effect	**Monthly Avg**			10	0						
	Monthly Total										
	Daily Max			16	0	9	0				
	Daily Min					6	0	7	0		
	Weekly Avg			10	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9		0.526	<0.011	0	
	10		5.718	<0.011	0	
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21			<0.011	0	
	22		7.882			
	23					
	24					
	25					
	26					
	27					
	28			<0.011	0	0
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**			4.708666667		0		0		0	
	Monthly Total										
	Daily Max			7.882		<0.011		0		0	
	Daily Min			0.526		<0.011		0		0	
	Week 1 Avg										
	Week 2 Avg			3.122							
	Week 3 Avg										
	Week 4 Avg			7.882							
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	98									
	Daily Min										
	Weekly Avg	58		9.90	0						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9			<2	0	
	10					
	11					
	12					
	13					
	14					
	15					
	16			<2	0	
	17					
	18					
	19					
	20					
	21			<2	0	
	22					
	23			<2	0	
	24					
	25					
	26					
	27					
	28			<2	0	0
	29					
	30					
	31					

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**					0		0		0					
	Monthly Total														
	Daily Max					<2		0		0					
	Daily Min					<2		0		0					
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**					2									
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0 0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	280				
	2	4133				
	3	325				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	14428				
	11	14629				
	12	633				
	13	0				
	14	0				
	15	0				
	16	5862				
	17	6062				
	18	0				
	19	0				
	20	0				
	21	967				
	22	29790				
	23	14598				
	24	23514				
	25	27481				
	26	27680				
	27	47785				
	28	20879				
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	8537.357142857				
	Monthly Total					
	Daily Max	47785				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 7/7/2022 2:39:05 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 03/01/2022 - 03/31/2022
Form Due Date: 04/21/2022
Permit Number: 0065889

Date Received:	
DOC:	486128
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	13335				
	2	15525	3	7.4	7.51	<1
	3	6260	2	7.4	7.47	<1
	4	6622				
	5	9509				
	6	11050				
	7	11597				
	8	10971	<2	6.9	7.56	<1
	9	7987	2		7.45	
	10	2229				
	11	13263				
	12	10454				
	13	0				
	14	9399	3	6.8	7.41	
	15	7085	2	7.1	7.53	
	16	4649	3	6.9	7.38	<1
	17	12950				
	18	11272				
	19	15807				
	20	6915				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	6028.35483871		2.142857143		7.083333333		7.472857143		0	
	Monthly Total										
	Daily Max	15807		3		7.4		7.56		<1	
	Daily Min	0		<2		6.8		7.38		<1	
	Week 1 Avg			2.5							
	Week 2 Avg			1.666666667							
	Week 3 Avg			2.5							
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			10	0						
	Monthly Total										
	Daily Max			16	0	9	0				
	Daily Min					6	0	7	0		
	Weekly Avg			10	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3		7.746	<0.011	0	
	4					
	5					
	6					
	7					
	8		7.602	<0.011	0	
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16		6.196	<0.011	0	
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					0

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**			7.181333333		0		0		0	
	Monthly Total										
	Daily Max			7.746		<0.011		0		0	
	Daily Min			6.196		<0.011		0		0	
	Week 1 Avg			7.746							
	Week 2 Avg			7.602							
	Week 3 Avg			6.196							
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	1	1	0				
	Monthly Total										
	Daily Max	97									
	Daily Min										
	Weekly Avg	59		9.90	0						
QA/QC Information	**LOD**			0.17*Footnote		0.02*Footnote					
	LOQ			0.567*Footnote		0.1*Footnote					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

*Footnote: QA/QC Information is not identical for each day, so the value shown is the maximum of all values for LOD/LOQ data or the first Lab found for Lab Cert data.

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2			<2	0	
	3			<2	0	
	4					
	5					
	6					
	7					
	8			<2	0	
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16			<2	0	
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					0

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**					0		0		0					
	Monthly Total														
	Daily Max					<2		0		0					
	Daily Min					<2		0		0					
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**					2									
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0 0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	46115				
	2	47272				
	3	53227				
	4	27210				
	5	31429				
	6	34586				
	7	37868				
	8	48290				
	9	39028				
	10	37399				
	11	12740				
	12	41261				
	13	36615				
	14	3800				
	15	35407				
	16	30817				
	17	33526				
	18	40870				
	19	38157				
	20	48149				
	21	23086				
	22	1074				
	23	369				
	24	1784				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	24196.096774194				
	Monthly Total					
	Daily Max	53227				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Exceedence Comments

Exceeded monthly average on Ammonia Limit. Operator error in the difference between the weekly average of 9.9 ppm and the monthly at 5.0 ppm. Adjustments made to interstage pH on RO to increase Ammonia rejection.

Submitted by Scott Hynds(scottdhynds) on 7/7/2022 3:15:42 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 04/01/2022 - 04/30/2022
Form Due Date: 05/21/2022
Permit Number: 0065889

Date Received:	
DOC:	494571
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	2335				
	27	3517	3	7.0	7.49	<1
	28	10742				
	29	13139				
	30	12232				
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	1398.833333333		3		7		7.49		0	
	Monthly Total										
	Daily Max	13139		3		7		7.49		<1	
	Daily Min	0		3		7		7.49		<1	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg			3							
Limit(s) in Effect	**Monthly Avg**			10	0						
	Monthly Total										
	Daily Max			16	0	9	0				
	Daily Min					6	0	7	0		
	Weekly Avg			10	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27		4.428	<0.011	0	
	28					
	29					
	30					0
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**			4.428		0		0		0	
	Monthly Total										
	Daily Max			4.428		<0.011		0		0	
	Daily Min			4.428		<0.011		0		0	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg			4.428							
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	95	0								
	Daily Min										
	Weekly Avg	59	0	6.10	0						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27			3		
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**					3									
	Monthly Total														
	Daily Max					3									
	Daily Min					3									
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**														
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					5825
	27					16258
	28					31204
	29					33111
	30					29303
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					23140.2
	Monthly Total					
	Daily Max					33111
	Daily Min					5825
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 7/7/2022 3:51:09 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 05/01/2022 - 05/31/2022
Form Due Date: 06/21/2022
Permit Number: 0065889

Date Received:	
DOC:	494572
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	3393				
	8	10531				
	9	6013				
	10	3915				
	11	8481	6			
	12	8330	3	6.7	7.23	<1
	13	3919				
	14	12467				
	15	10893				
	16	13994	3	7.1	7.19	<1
	17	15864	2	6.9	7.14	<1
	18	9485	2		7.21	
	19	6138				
	20	9882				
	21	9480				
	22	11304				
	23	9474				
	24	10355	2		7.15	
	25	9220	2	6.9	7.14	
	26	5519	2	7.0	7.09	<1
	27	11138				
	28	10330				
	29	13732				
	30	14570				
	31	6025				

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	7562.967741935		2.75		6.92		7.164285714		0	
	Monthly Total										
	Daily Max	15864		6		7.1		7.23		<1	
	Daily Min	0		2		6.7		7.09		<1	
	Week 1 Avg										
	Week 2 Avg			4.5							
	Week 3 Avg			2.333333333							
	Week 4 Avg			2							
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12		6.2	<0.011	0	
	13					
	14					
	15					
	16		6.001	<0.011	0	
	17			<0.011	0	
	18		4.967			
	19					
	20					
	21					
	22					
	23					
	24		4.723	<0.011	0	
	25					
	26		5.912	<0.011	0	
	27					
	28					
	29					
	30					
	31					0

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**			5.5606		0		0		0	
	Monthly Total										
	Daily Max			6.2		<0.011		0		0	
	Daily Min			4.723		<0.011		0		0	
	Week 1 Avg										
	Week 2 Avg			6.2							
	Week 3 Avg			5.484							
	Week 4 Avg			5.3175							
Limit(s) in Effect	**Monthly Avg**			5	1	1	0				
	Monthly Total										
	Daily Max	94									
	Daily Min										
	Weekly Avg	69		6.10	1						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424*Footnote		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

*Footnote: QA/QC Information is not identical for each day, so the value shown is the maximum of all values for LOD/LOQ data or the first Lab found for Lab Cert data.

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12			<2		
	13					
	14					
	15					
	16			<2		
	17			<2		
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26			<2		
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**			0		
	Monthly Total					
	Daily Max			<2		
	Daily Min			<2		
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10 / 0		
	Monthly Total		0			
	Daily Max			16 / 0		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**			2		
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification			737109450		

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0 0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	14040				
	2	22887				
	3	9614				
	4	136				
	5	488				
	6	599				
	7	11055				
	8	32374				
	9	21838				
	10	17575				
	11	25466				
	12	27274				
	13	22797				
	14	27114				
	15	22407				
	16	31607				
	17	35930				
	18	25548				
	19	22162				
	20	24864				
	21	21516				
	22	26248				
	23	19626				
	24	26045				
	25	27430				
	26	20805				
	27	31698				
	28	26475				
	29	30880				
	30	31925				
	31	14921				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	21720.774193548				
	Monthly Total					
	Daily Max	35930				
	Daily Min	136				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Exceedence Comments

Adjustment of interstage RO pH setpoint was slightly off - made further adjustments and replaced pH probe to stabilize fluctuation of pH to increase ammonia rejection.

Submitted by Scott Hynds(scottdhynds) on 7/7/2022 4:41:56 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 06/01/2022 - 06/30/2022
Form Due Date: 07/21/2022
Permit Number: 0065889

Date Received:	
DOC:	494573
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	5288				
	2	10054				
	3	10765				
	4	11924				
	5	8323				
	6	10690				
	7	8579	2	6.8	7.27	<1
	8	8178				
	9	10731	3	6.9	7.31	<1
	10	5701				
	11	0				
	12	3798				
	13	8060				
	14	5420	3	6.6	7.20	
	15	4935	3	6.5	7.29	1
	16	2732				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	3591				
	29	16222	4	6.3	7.19	<1
	30	11877				
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	4895.6		3		6.62		7.252		0.25	
	Monthly Total										
	Daily Max	16222		4		6.9		7.31		1	
	Daily Min	0		2		6.3		7.19		<1	
	Week 1 Avg			2							
	Week 2 Avg			3							
	Week 3 Avg			3							
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6		5.029	<0.011	0	
	7		3.670	<0.011	0	
	8					
	9		4.890	0.200	0.0000179	
	10					
	11					
	12					
	13					
	14					
	15		4.361	<0.011	0	
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29		3.249	0.030	0.00000406	
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**			4.2398		0.046		4.392E-06			
	Monthly Total										
	Daily Max			5.029		0.2		1.79E-05			
	Daily Min			3.249		<0.011		0			
	Week 1 Avg			4.3495							
	Week 2 Avg			4.89							
	Week 3 Avg			4.361							
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	93	0								
	Daily Min										
	Weekly Avg	81	0	5	0						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6			<2	0	
	7			<2	0	
	8					
	9			<2	0	
	10					
	11					
	12					
	13					
	14					
	15			<2	0	
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29			<2	0	
	30					0
	31					

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**					0		0		0					
	Monthly Total														
	Daily Max					<2		0		0					
	Daily Min					<2		0		0					
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**					2									
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0 0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	18352				
	2	32376				
	3	28357				
	4	30855				
	5	20067				
	6	27408				
	7	21992				
	8	19143				
	9	22845				
	10	18451				
	11	2575				
	12	8822				
	13	18248				
	14	18897				
	15	14537				
	16	8075				
	17	0				
	18	284				
	19	0				
	20	0				
	21	0				
	22	448				
	23	0				
	24	0				
	25	370				
	26	0				
	27	0				
	28	14569				
	29	40200				
	30	31386				
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	13275.233333333				
	Monthly Total					
	Daily Max	40200				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 8/15/2022 2:31:23 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 07/01/2022 - 07/31/2022
Form Due Date: 08/21/2022
Permit Number: 0065889

Date Received:	
DOC:	499211
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	23963		6.74	7.16	
	2	4928				
	3	22386				
	4	17429				
	5	16777		6.45	7.28	
	6	2895		6.30	7.23	
	7	10390	<2		7.37	
	8	8471				
	9	9621				
	10	31195				
	11	14700		6.56	7.28	
	12	19511	<2		7.32	
	13	23250	<2	6.49	7.47	
	14	29107				
	15	10033				
	16	16106				
	17	4770				
	18	4770			7.39	
	19	26758	2	6.39	7.41	
	20	1403				
	21	12487				
	22	12487				
	23	12433				
	24	11529				
	25	27846				
	26	11183				
	27	0				
	28	7707				
	29	17493				
	30	21311				
	31	23153				

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	14712.64516129	0.5	6.488333333	7.323333333	
	Monthly Total					
	Daily Max	31195	2	6.74	7.47	
	Daily Min	0	<2	6.3	7.16	
	Week 1 Avg		0			
	Week 2 Avg		0			
	Week 3 Avg		2			
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5 / 0			400 / 0
	Monthly Total					
	Daily Max		8.20 / 0	9 / 0		400 / 0
	Daily Min			6 / 0	7 / 0	
	Weekly Avg		5 / 0			
QA/QC Information	**LOD**		2			
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification		737109450			

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6		2.629	<0.011	0	
	7					
	8					
	9					
	10					
	11					
	12		3.181	<0.011	0	
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					0

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**			2.905		0		0		0	
	Monthly Total										
	Daily Max			3.181		<0.011		0		0	
	Daily Min			2.629		<0.011		0		0	
	Week 1 Avg			2.629							
	Week 2 Avg			3.181							
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	93	0								
	Daily Min										
	Weekly Avg	87	0	5	0						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6			<2	0	
	7					
	8					
	9					
	10					
	11					
	12			<2	0	
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					0

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**					0		0		0					
	Monthly Total														
	Daily Max					<2		0		0					
	Daily Min					<2		0		0					
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**					2									
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	56589				
	2	28290				
	3	47401				
	4	41276				
	5	42048				
	6	15288				
	7	31699				
	8	23356				
	9	24454				
	10	66613				
	11	39529				
	12	53889				
	13	50916				
	14	55739				
	15	27436				
	16	40284				
	17	15390				
	18	15390				
	19	62243				
	20	5733				
	21	33165				
	22	33165				
	23	33298				
	24	30062				
	25	61352				
	26	31624				
	27	975				
	28	21545				
	29	46996				
	30	45492				
	31	47838				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	36421.774193548				
	Monthly Total					
	Daily Max	66613				
	Daily Min	975				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 10/10/2022 2:52:03 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 08/01/2022 - 08/31/2022
Form Due Date: 09/21/2022
Permit Number: 0065889

Date Received:	
DOC:	499212
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	5879				
	2	18643	<2	6.36	7.21	
	3	20998	2	6.51	7.29	
	4	23071	<2		7.36	
	5	26041				
	6	14791				
	7	22994				
	8	19680				
	9	3034				
	10	9521	<2	6.29	7.31	
	11	18660	<2	6.74	7.42	
	12	15494				
	13	8653				
	14	7296				
	15	3132				
	16	5435	<2	6.46	7.29	
	17	5755				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	8223	<2	6.73	7.41	
	25	18633	<2		7.22	
	26	12088				
	27	7055				
	28	17099				
	29	12265				
	30	10224	<2	6.69	7.36	
	31	14125	2		7.24	

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	10606.096774194		0.4		6.54		7.311			
	Monthly Total										
	Daily Max	26041		2		6.74		7.42			
	Daily Min	0		<2		6.29		7.21			
	Week 1 Avg			0.666666667							
	Week 2 Avg			0							
	Week 3 Avg			0							
	Week 4 Avg			0							
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2	74				
	3	76	3.4	<0.011	0	
	4	75	3.572			
	5					
	6					
	7					
	8					
	9					
	10	83				
	11	85	3.282	<0.011	0	
	12					
	13					
	14					
	15					
	16	80	3.083	<0.011	0	
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24	83	3.315	<0.011	0	
	25	80				
	26					
	27					
	28					
	29					
	30	81	3.574	0.020	0.00000171	
	31	82				

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**	79.9		3.371		0.004		3.42E-07			
	Monthly Total										
	Daily Max	85		3.574		0.02		1.71E-06			
	Daily Min	74		3.083		<0.011		0			
	Week 1 Avg	75		3.486							
	Week 2 Avg	84		3.282							
	Week 3 Avg	80		3.083							
	Week 4 Avg	81.5		3.315							
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	93	0								
	Daily Min										
	Weekly Avg	88	0	5	0						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3			<2	0	
	4			<2	0	
	5					
	6					
	7					
	8					
	9					
	10					
	11			<2	0	
	12					
	13					
	14					
	15					
	16			<2	0	
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24			<2	0	
	25					
	26					
	27					
	28					
	29					
	30			<2	0	
	31					0

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**					0		0		0					
	Monthly Total														
	Daily Max					<2		0		0					
	Daily Min					<2		0		0					
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**														
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	16320				
	2	47160				
	3	58591				
	4	58263				
	5	61098				
	6	34988				
	7	53117				
	8	48729				
	9	10084				
	10	27877				
	11	50396				
	12	43819				
	13	26655				
	14	22850				
	15	8512				
	16	15551				
	17	21271				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	6636				
	24	20457				
	25	46907				
	26	35279				
	27	24903				
	28	40743				
	29	30854				
	30	26098				
	31	39413				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	28276.483870968				
	Monthly Total					
	Daily Max	61098				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 11/17/2022 12:16:56 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 09/01/2022 - 09/30/2022
Form Due Date: 10/21/2022
Permit Number: 0065889

Date Received:	
DOC:	499213
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	11325	<2	6.3	7.27	
	2	4581		6.42	7.41	
	3	6218				
	4	4106				
	5	9636				
	6	14899		6.54	7.49	
	7	2053				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	3760				
	14	1205				
	15	14098	<2	6.4	7.36	<1
	16	24304		6.39	7.41	
	17	17900				
	18	6088				
	19	0				
	20	1562				
	21	0				
	22	0				
	23	0				
	24	15944		6.32	7.27	
	25	19781				
	26	18131		6.41	7.52	
	27	12442	3	6.4	7.45	<1
	28	2417				
	29	0				
	30	0				
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	6348.333333333		1		6.3975		7.3975		0	
	Monthly Total										
	Daily Max	24304		3		6.54		7.52		<1	
	Daily Min	0		<2		6.3		7.27		<1	
	Week 1 Avg			0							
	Week 2 Avg										
	Week 3 Avg			0							
	Week 4 Avg			3							
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**	74				
	2	73				
	3					
	4					
	5					
	6	75				
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15	73	3.018	<0.011	0	
	16	77				
	17	72				
	18					
	19					
	20					
	21					
	22					
	23					
	24	72				
	25					
	26	70				
	27	68	3.102	0.120	.00001245	
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**	72.666666667		3.06		0.06		6.225E-06			
	Monthly Total										
	Daily Max	77		3.102		0.12		1.245E-05			
	Daily Min	68		3.018		<0.011		0			
	Week 1 Avg	74									
	Week 2 Avg										
	Week 3 Avg	74		3.018							
	Week 4 Avg	70		3.102							
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	93	0								
	Daily Min										
	Weekly Avg	80	0	5	0						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15			<2	0	
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27			<2	0	
	28					
	29					
	30					0
	31					

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**					0		0		0					
	Monthly Total														
	Daily Max					<2		0		0					
	Daily Min					<2		0		0					
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**														
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	33150				
	2	17359				
	3	26705				
	4	14459				
	5	25630				
	6	41608				
	7	8823				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	10985				
	14	1836				
	15	35511				
	16	58309				
	17	48843				
	18	14973				
	19	0				
	20	12208				
	21	0				
	22	0				
	23	468				
	24	34211				
	25	41418				
	26	40096				
	27	40732				
	28	7592				
	29	0				
	30	0				
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	17163.866666667				
	Monthly Total					
	Daily Max	58309				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Some under-reporting occurred do to system downtime and on some days were minimal discharge occurred there was insufficient volume captured in the composite sampler

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 11/17/2022 1:17:27 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 10/01/2022 - 10/31/2022
Form Due Date: 11/21/2022
Permit Number: 0065889

Date Received:	
DOC:	504563
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	12796	2	6.2	7.36	
	5	18963	<2		7.27	
	6	11807	2			
	7	10700				
	8	17042				
	9	16066				
	10	8102				
	11	10299	<2	6.4	7.39	
	12	13087				
	13	17433				
	14	22133				
	15	8727				
	16	6976				
	17	448				
	18	2818				
	19	82				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	5725.129032258	1	6.3	7.34	
	Monthly Total					
	Daily Max	22133	2	6.4	7.39	
	Daily Min	0	<2	6.2	7.27	
	Week 1 Avg		1.333333333			
	Week 2 Avg		0			
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5			400
	Monthly Total					
	Daily Max		8.20	9		400
	Daily Min			6	7	
	Weekly Avg		5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification		737109450			

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4			0.020	0.00000213	
	5					
	6					
	7					
	8					
	9					
	10					
	11			<0.011	0	
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**			0.01	1.065E-06	
	Monthly Total					
	Daily Max			0.02	2.13E-06	
	Daily Min			<0.011	0	
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	96				
	Daily Min					
	Weekly Avg	67	5			
QA/QC Information	**LOD**			0.011		
	LOQ			0.037		
	QC Exceedance	N	N	N	N	N
	Lab Certification			737109450		

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4			<2	0	
	5					
	6					
	7					
	8					
	9					
	10					
	11			<2	0	
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**			0	0	
	Monthly Total					
	Daily Max			<2	0	
	Daily Min			<2	0	
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification			737109450		

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	0				
	2	0				
	3	0				
	4	37033				
	5	52170				
	6	34155				
	7	38045				
	8	45831				
	9	45244				
	10	26127				
	11	27328				
	12	42530				
	13	55444				
	14	64680				
	15	28871				
	16	24139				
	17	7352				
	18	9483				
	19	5352				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	17541.419354839				
	Monthly Total					
	Daily Max	64680				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 11/01/2022 - 11/30/2022
Form Due Date: 12/21/2022
Permit Number: 0065889

Date Received:	
DOC:	504564
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	8233				
	2	8723				
	3	0				
	4	701				
	5	1300				
	6	0				
	7	0				
	8	4368	<2	6.21	7.40	
	9	6648				
	10	0				
	11	0				
	12	124				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	1003.233333333	0	6.21	7.4	
	Monthly Total					
	Daily Max	8723	<2	6.21	7.4	
	Daily Min	0	<2	6.21	7.4	
	Week 1 Avg					
	Week 2 Avg		0			
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		10			400
	Monthly Total					
	Daily Max		8.20	9		400
	Daily Min			6	7	
	Weekly Avg		5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification		737109450			

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8			0.040	.00001457	
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**			0.04	1.457E-05	
	Monthly Total					
	Daily Max			0.04	1.457E-05	
	Daily Min			0.04	1.457E-05	
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	996				
	Daily Min					
	Weekly Avg	54	5			
QA/QC Information	**LOD**			0.011		
	LOQ			0.037		
	QC Exceedance	N	N	N	N	N
	Lab Certification			737109450		

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8			<2	0	
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**			0	0	
	Monthly Total					
	Daily Max			<2	0	
	Daily Min			<2	0	
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification			737109450		

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	20457				
	2	27272				
	3	2771				
	4	19318				
	5	11471				
	6	5578				
	7	3141				
	8	18353				
	9	26625				
	10	2556				
	11	0				
	12	3165				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	427				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	4704.466666667				
	Monthly Total					
	Daily Max	27272				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 12/01/2022 - 12/31/2022
Form Due Date: 01/21/2023
Permit Number: 0065889

Date Received:	
DOC:	504565
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	1460				
	4	0				
	5	2104				
	6	11393				
	7	4165	<2	6.76	7.55	<1
	8	54				
	9	1845				
	10	5186				
	11	3777				
	12	0				
	13	0				
	14	2146				
	15	807				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	1062.483870968	0	6.76	7.55	0
	Monthly Total					
	Daily Max	11393	<2	6.76	7.55	<1
	Daily Min	0	<2	6.76	7.55	<1
	Week 1 Avg		0			
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		10			400
	Monthly Total					
	Daily Max		8.20	9		400
	Daily Min			6	7	
	Weekly Avg		5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification		737109450			

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7			<0.011	0	
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**			0	0	
	Monthly Total					
	Daily Max			<0.011	0	
	Daily Min			<0.011	0	
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	97				
	Daily Min					
	Weekly Avg	56	5			
QA/QC Information	**LOD**			0.011		
	LOQ			0.037		
	QC Exceedance	N	N	N	N	N
	Lab Certification			737109450		

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7			<2	0	
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**			0	0	
	Monthly Total					
	Daily Max			<2	0	
	Daily Min			<2	0	
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification			737109450		

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	1079				
	2	2113				
	3	11257				
	4	224				
	5	9073				
	6	46131				
	7	22951				
	8	4531				
	9	12115				
	10	24804				
	11	13456				
	12	864				
	13	4380				
	14	8069				
	15	7149				
	16	108				
	17	582				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	5447.935483871				
	Monthly Total					
	Daily Max	46131				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

2021 - 2023 Annual Report Summary

2021 Annual Report Summary					
Month	Days In Month	Avg. Discharge (gpd)	Adjusted Monthly Total Discharge (gal)	Avg. Effluent TP Conc. (mg/L)*	Avg Effluent TSS. Conc. (mg/L)**
January	31	-	-	-	-
February	28	-	-	-	-
March	31	-	-	-	-
April	30	-	-	-	-
May	31	-	-	-	-
June	30	-	-	-	-
July	31	-	-	-	-
August	31	1,720	53,319	0.011	0.10
September	30	-	-	-	-
October	31	5,977	185,291	0.011	0.10
November	30	-	-	-	-
December	31	3,126	96,893	0.070	0.10
Averages		902	335,503	0.03	0.10
	TOTAL		671,006		
			Annual Total Discharge (lbs)	**0.09**	**0.28**

2022 Annual Report Summary					
Month	Days In Month	Avg. Discharge (gpd)	Adjusted Monthly Total Discharge (gal)	Avg. Effluent TP Conc. (mg/L)*	Avg Effluent TSS. Conc. (mg/L)**
January	31	3,937	122,061	0.050	0.10
February	28	2,669	74,727	0.011	0.10
March	31	6,028	186,879	0.011	0.10
April	30	1,399	41,965	0.011	3.00
May	31	7,563	234,452	0.011	0.10
June	30	4,896	146,868	0.053	0.10
July	31	14,713	456,092	0.011	0.10
August	31	10,606	328,789	0.128	0.10
September	30	6,348	190,450	0.066	0.10
October	31	5,725	177,479	0.016	0.10
November	30	1,003	30,097	0.040	0.10
December	31	1,062	32,937	0.011	0.10
Averages		5,496	2,022,795	0.035	0.34
	TOTAL		4,045,591		
			Annual Total Discharge (lbs)	**0.59**	**5.76**

*TP detection limit is 0.011 mg/L, in cases where test results were 'non-detect', the detection limit value was used as the concentration value

**TSS detection limit is 2 mg/L, in cases where tests results were 'non-detect', a value of 0.1 mg/L was used based off previous research

2023 Annual Report Summary					
Month	Days In Month	Avg. Discharge (gpd)	Adjusted Monthly Total Discharge (gal)	Avg. Effluent TP Conc. (mg/L)	Avg Effluent TSS. Conc. (mg/L)
January	31	-	-	-	-
February	28	-	-	-	-
March	31	1,449	44,907	0.011	0.10
April	30	-	-	-	-
May	31	754	23,374	0.011	0.10
June	30	1,879	56,377	0.011	0.10
July	31	5,485	170,041	0.011	0.10
August	31	797	24,694	0.011	0.10
September	30	-	-	-	-
October	31	3,216	99,709	0.011	0.10
November	30	446	13,377	0.011	0.10
December	31	-	-	-	-
Averages		1,169	36,040	0.006	0.06
		TOTAL	468,518		
			Annual Total Discharge (lbs)	**0.03**	**0.23**

*TP detection limit is 0.011 mg/L, in cases where test results were 'non-detect', the detection limit value was used as the concentration value

**TSS detection limit is 2 mg/L, in cases where tests results were 'non-detect', a value of 0.1 mg/L was used based off previous research

Attachments:

- SCW0123 (January 2023 Aqua Springfield Clean Water Discharge Reports)
- SCW0223 (February 2023 Discharge Reports)
- SCW0323 (March 2023 Discharge Reports)
- SCW0423 (April 2023 Discharge Reports)
- SCW0523 (May 2023 Discharge Reports)
- SCW0623 (June 2023 Discharge Reports)
- SCW0723 (July 2023 Discharge Reports)
- SCW0823 (August 2023 Discharge Reports)
- SCW0923 (September 2023 Discharge Reports)
- SCW1023 (October 2023 Discharge Reports)
- SCW1123 (November 2023 Discharge Reports)
- SCW1223 (December 2023 Discharge Reports)

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 01/01/2023 - 01/31/2023
Form Due Date: 02/21/2023
Permit Number: 0065889

Date Received:	
DOC:	510003
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		10			400
	Monthly Total					
	Daily Max		8.20	9		400
	Daily Min			6	7	
	Weekly Avg		5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
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	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	98				
	Daily Min					
	Weekly Avg	57	5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
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	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		003		004		005	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		Conc. Centrate to Part. Farms		Conc. Centrate to Lagoon		Conc. Centrate to New Farms	
	Parameter	1348		1347		211		211		211	
	Description	WQT Credits Used (TSS)		WQT Computed Compliance (TSS)		Flow Rate		Flow Rate		Flow Rate	
	Units	lbs/month		lbs/month		gpd		gpd		gpd	
Summary Values	**Monthly Avg**										
	Monthly Total										
	Daily Max										
	Daily Min										
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**										
	Monthly Total			0							
	Daily Max										
	Daily Min										
	Weekly Avg										
QA/QC Information	**LOD**										
	LOQ										
	QC Exceedance										
	Lab Certification										

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

System was offline during the month of January

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 2/23/2023 4:20:08 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 02/01/2023 - 02/28/2023
Form Due Date: 03/21/2023
Permit Number: 0065889

Date Received:	
DOC:	510004
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		10			400
	Monthly Total					
	Daily Max		8.20	9		400
	Daily Min			6	7	
	Weekly Avg		5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	98				
	Daily Min					
	Weekly Avg	58	5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

No discharge occurred during this month.

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 3/20/2023 10:19:59 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 03/01/2023 - 03/31/2023
Form Due Date: 04/21/2023
Permit Number: 0065889

Date Received:	
DOC:	510005
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	3148	<2	6.4	7.36	<1
	3	9080				
	4	6257				
	5	0				
	6	0				
	7	1482	<2	6.5	7.41	<1
	8	3413	2			
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	2800	<2	6.6	7.3	<1
	16	1768				
	17	7778				
	18	2755				
	19	0				
	20	0				
	21	0				
	22	0				
	23	3682	2	6.2	7.49	<1
	24	1284				
	25	1460				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	1448.612903226		0.8		6.425		7.39		0	
	Monthly Total										
	Daily Max	9080		2		6.6		7.49		<1	
	Daily Min	0		<2		6.2		7.3		<1	
	Week 1 Avg			0							
	Week 2 Avg			2							
	Week 3 Avg			0							
	Week 4 Avg			2							
Limit(s) in Effect	**Monthly Avg**			10	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2	58	3.785	<0.011		
	3					
	4					
	5					
	6					
	7	58	2.745	<0.011		
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15	52	3.038	0.170	0.00397	
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23	55	4.801	<0.011		
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001			
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water			
	Parameter	480		789		388		388		388			
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total			
	Units	degF		mg/L		mg/L		lbs/day		lbs/month			
Summary Values	**Monthly Avg**	55.75		3.59225		0.0425		0.00397					
	Monthly Total												
	Daily Max	58		4.801		0.17		0.00397					
	Daily Min	52		2.745		<0.011		0.00397					
	Week 1 Avg	58		3.265									
	Week 2 Avg												
	Week 3 Avg	52		3.038									
	Week 4 Avg	55		4.801									
Limit(s) in Effect	**Monthly Avg**			5	0	1	0						
	Monthly Total												
	Daily Max	97	0										
	Daily Min												
	Weekly Avg	59	0	5	0								
QA/QC Information	**LOD**			0.254*Footnote		0.011							
	LOQ			0.848*Footnote		0.037							
	QC Exceedance	N		N		N		N		N			
	Lab Certification			737109450		737109450							

*Footnote: QA/QC Information is not identical for each day, so the value shown is the maximum of all values for LOD/LOQ data or the first Lab found for Lab Cert data.

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1					
	2			<2		
	3					
	4					
	5					
	6					
	7			<2		
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15			<2		
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23			<2		
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31	0.51				0

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**	0.51				0				0					
	Monthly Total														
	Daily Max	0.51				<2				0					
	Daily Min	0.51				<2				0					
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**					2									
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31	0				

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0 0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	0				
	2	28151	36.01	18.0	7.41	5.928
	3	41366				
	4	29299				
	5	0				
	6	0				
	7	11080				
	8	20118				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	26633				
	16	23814				
	17	34350				
	18	13802				
	19	0				
	20	0				
	21	0				
	22	0				
	23	25478				
	24	19747				
	25	16626				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	9369.806451613	36.01	18	7.41	5.928
	Monthly Total					
	Daily Max	41366	36.01	18	7.41	5.928
	Daily Min	0	36.01	18	7.41	5.928
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**				0	
	LOQ				0	
	QC Exceedance	N	N	N	N	N
	Lab Certification				737109450	737109450

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Phos sample was sent to incorrect lab and is shown not as total Phos but as P2O5 - corrective action taken

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 5/9/2023 3:23:54 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 04/01/2023 - 04/30/2023
Form Due Date: 05/21/2023
Permit Number: 0065889

Date Received:	
DOC:	517768
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		10			
	Monthly Total					
	Daily Max		16	9		
	Daily Min			6	7	
	Weekly Avg		10			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	95				
	Daily Min					
	Weekly Avg	59	6.10			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

No discharge occurred during the month of April

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 5/5/2023 11:04:49 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 05/01/2023 - 05/31/2023
Form Due Date: 06/21/2023
Permit Number: 0065889

Date Received:	
DOC:	517769
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FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	4395	2	6.2	7.29	<1
	25	3284	<2	6.7	7.46	<1
	26	3137				
	27	2393				
	28	5081				
	29	0				
	30	3470	3	6.5	7.57	4
	31	1614	2	6.8	7.37	1

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	754		1.75		6.55		7.4225		1.25	
	Monthly Total										
	Daily Max	5081		3		6.8		7.57		4	
	Daily Min	0		<2		6.2		7.29		<1	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg			1							
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24	68	1.670	<0.011		
	25	64				
	26					
	27					
	28					
	29					
	30					
	31	69	7.638	<0.011	0	0

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**	67		4.654		0		0		0	
	Monthly Total										
	Daily Max	69		7.638		<0.011		0		0	
	Daily Min	64		1.67		<0.011		0		0	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg	66		1.67							
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	94	0								
	Daily Min										
	Weekly Avg	69	0	6.10	0						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24			<2		
	25					
	26					
	27					
	28					
	29					
	30					
	31	0	0	<2	0	0

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**	0	0	0	0	0
	Monthly Total		0			
	Daily Max	0	0	<2	0	0
	Daily Min	0	0	<2	0	0
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10 0		
	Monthly Total		0 0			
	Daily Max			16 0		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification			737109450		

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31	0	0			

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**	0	0			
	Monthly Total		0			
	Daily Max	0	0			
	Daily Min	0	0			
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	12316				
	24	23515				
	25	18219	33.43	32.89	8.2	7.49
	26	18532				
	27	10689				
	28	22801				
	29	289				
	30	18570				
	31	8489				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	4303.870967742	33.43	32.89	8.2	7.49
	Monthly Total					
	Daily Max	23515	33.43	32.89	8.2	7.49
	Daily Min	0	33.43	32.89	8.2	7.49
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**				0	
	LOQ				0	
	QC Exceedance	N	N	N	N	N
	Lab Certification				737109450	737109450

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

LOD and LOQ for 106 Liquid Fertilizer Product not available because sample is a composite of two results. It would not allow me to submite without a value in there.

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 7/31/2023 4:26:10 PM

Wastewater Discharge Monitoring Long Report

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Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
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Permit Number: 0065889

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FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	5338				
	9	4754				
	10	0				
	11	0				
	12	0				
	13	1470	<2	6.3	7.64	<1
	14	6656				
	15	3467	2	6.6	7.42	<1
	16	4617				
	17	2167				
	18	4048				
	19	3456	3	6.3	7.36	
	20	784				
	21	1264	<2	6.2	7.45	<1
	22	1782				
	23	954				
	24	3684				
	25	2381				
	26	0				
	27	597				
	28	2295				
	29	3735	2	6.9	7.49	<1
	30	2928				
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	1879.233333333		1.4		6.46		7.472		0	
	Monthly Total										
	Daily Max	6656		3		6.9		7.64		<1	
	Daily Min	0		<2		6.2		7.36		<1	
	Week 1 Avg										
	Week 2 Avg			0							
	Week 3 Avg			1.666666667							
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12	79	6.617	<0.011		
	13					
	14					
	15	77	7.263	<0.011		
	16					
	17					
	18					
	19	80				
	20					
	21	75	3.821	<0.011		
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29	79	1.401	<0.011		
	30				0	0
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**	78		4.7755		0		0		0	
	Monthly Total										
	Daily Max	80		7.263		<0.011		0		0	
	Daily Min	75		1.401		<0.011		0		0	
	Week 1 Avg										
	Week 2 Avg	79		6.617							
	Week 3 Avg	77.333333333		5.542							
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	93	0								
	Daily Min										
	Weekly Avg	81	0	5	2						
QA/QC Information	**LOD**			0.127		0.011					
	LOQ			0.424		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12			<2		
	13					
	14					
	15			<2		
	16					
	17					
	18					
	19					
	20					
	21			<2		
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29			<2		
	30	0	0		0	0
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**	0	0	0	0	0
	Monthly Total		0			
	Daily Max	0	0	<2	0	0
	Daily Min	0	0	<2	0	0
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10 0		
	Monthly Total		0 0			
	Daily Max			16 0		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification			737109450		

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30	0	0			
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**	0	0			
	Monthly Total		0			
	Daily Max	0	0			
	Daily Min	0	0			
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	0				
	2	0				
	3	0				
	4	1767				
	5	594				
	6	9993				
	7	2940				
	8	25123				
	9	24096				
	10	462				
	11	200				
	12	0				
	13	12718				
	14	24209				
	15	12915				
	16	18177				
	17	9656				
	18	14886				
	19	19801				
	20	15162				
	21	24676				
	22	14900				
	23	6465				
	24	15600				
	25	12932				
	26	0				
	27	7014				
	28	12624				
	29	25854	31.72	9.99	6.14	4.4
	30	38012				
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	11692.533333333	31.72	9.99	6.14	4.4
	Monthly Total					
	Daily Max	38012	31.72	9.99	6.14	4.4
	Daily Min	0	31.72	9.99	6.14	4.4
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**				0	
	LOQ				0	
	QC Exceedance	N	N	N	N	N
	Lab Certification				737109450	737109450

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Exceedence Comments

Week 2 and week 3 weekly averages exceeded the limit of 5 by 1.617 (6.617 average) and 0.542 (5.542 average) due to sulfuric acid dosing pump variance. Corrective action taken by adjustment of operating parameters.

Submitted by Scott Hynds(scottdhynds) on 7/31/2023 5:02:45 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 07/01/2023 - 07/31/2023
Form Due Date: 08/21/2023
Permit Number: 0065889

Date Received:	
DOC:	523841
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	5067				
	2	0				
	3	1697	<2	6.8	7.32	
	4	0				
	5	5313	2	6.9	7.46	<1
	6	6134				
	7	6477				
	8	5456				
	9	2083				
	10	1340				
	11	5208				
	12	5371	2	6.7	7.31	<1
	13	10428	<2	6.9	7.23	
	14	8432				
	15	7710				
	16	13289				
	17	7309				
	18	3700	3	6.7	7.45	<1
	19	4207				
	20	10900				
	21	8219				
	22	7487				
	23	6130				
	24	5774				
	25	6905				
	26	5911				
	27	9024	2	6.5	7.61	<1
	28	3770				
	29	4989				
	30	0				
	31	1711	<2	6.6	7.39	

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	5485.193548387		1.285714286		6.728571429		7.395714286		0	
	Monthly Total										
	Daily Max	13289		3		6.9		7.61		<1	
	Daily Min	0		<2		6.5		7.23		<1	
	Week 1 Avg			1							
	Week 2 Avg			1							
	Week 3 Avg			3							
	Week 4 Avg			2							
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3	82		<0.011		
	4					
	5	84		<0.011		
	6					
	7					
	8					
	9					
	10					
	11					
	12	81		<0.011		
	13					
	14					
	15					
	16					
	17					
	18	79		<0.011		
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27	84		<0.011		
	28					
	29					
	30					
	31	80		<0.011	0	0

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**	81.666666667				0		0		0	
	Monthly Total										
	Daily Max	84				<0.011		0		0	
	Daily Min	79				<0.011		0		0	
	Week 1 Avg	83									
	Week 2 Avg	81									
	Week 3 Avg	79									
	Week 4 Avg	84									
Limit(s) in Effect	**Monthly Avg**			5		1	0				
	Monthly Total										
	Daily Max	93	0								
	Daily Min										
	Weekly Avg	87	0	5							
QA/QC Information	**LOD**					0.011					
	LOQ					0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification					737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3			<2		
	4					
	5			<2		
	6					
	7					
	8					
	9					
	10					
	11					
	12			<2		
	13					
	14					
	15					
	16					
	17					
	18			<2		
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27			<2		
	28					
	29					
	30					
	31	0	0	<2	0	0

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	1343		1344		457		457		457	
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total	
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**	0		0		0		0		0	
	Monthly Total			0							
	Daily Max	0		0		<2		0		0	
	Daily Min	0		0		<2		0		0	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**					10	0				
	Monthly Total			0	0						
	Daily Max					16	0				
	Daily Min										
	Weekly Avg										
QA/QC Information	**LOD**					2					
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification					737109450					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31	0	0			

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**	0	0			
	Monthly Total		0			
	Daily Max	0	0			
	Daily Min	0	0			
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	37818				
	2	198				
	3	16712				
	4	1184				
	5	29098				
	6	35253				
	7	42284				
	8	29114				
	9	22728				
	10	18457				
	11	43294				
	12	38751	30.21	15.10	6.88	5.49
	13	38323				
	14	40868				
	15	43113				
	16	57085				
	17	42344				
	18	38411				
	19	30044				
	20	47473				
	21	42120				
	22	40992				
	23	30583				
	24	34976				
	25	36227				
	26	41375				
	27	47193				
	28	33131				
	29	28938				
	30	915				
	31	28052				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	32808.193548387	30.21	15.1	6.88	5.49
	Monthly Total					
	Daily Max	57085	30.21	15.1	6.88	5.49
	Daily Min	198	30.21	15.1	6.88	5.49
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**				0	
	LOQ				0	
	QC Exceedance	N	N	N	N	N
	Lab Certification				737109450	737109450

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Ammonia samples missing due to prepped bottle shortage

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 11/15/2023 3:28:15 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 08/01/2023 - 08/31/2023
Form Due Date: 09/21/2023
Permit Number: 0065889

Date Received:	
DOC:	523842
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	5001	2	6.43	7.31	
	2	4741				
	3	6313	6	6.49	7.29	
	4	4004				
	5	0				
	6	0				
	7	0				
	8	0				
	9	1703	<2	6.69	7.44	<1
	10	2932	<2	6.52	7.28	
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	796.580645161		2		6.5325		7.33		0	
	Monthly Total										
	Daily Max	6313		6		6.69		7.44		<1	
	Daily Min	0		<2		6.43		7.28		<1	
	Week 1 Avg			4							
	Week 2 Avg			0							
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1	82	<0.381	<0.011		
	2					
	3	80				
	4					
	5					
	6					
	7					
	8					
	9	79		<0.011		
	10	77				
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31				0	0

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**	79.5		0		0		0		0	
	Monthly Total										
	Daily Max	82		<0.381		<0.011		0		0	
	Daily Min	77		<0.381		<0.011		0		0	
	Week 1 Avg	81		0							
	Week 2 Avg	78									
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	93	0								
	Daily Min										
	Weekly Avg	88	0	5	0						
QA/QC Information	**LOD**			0.381		0.011					
	LOQ			1.272		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**			<2		
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9			<2		
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31	0	0		0	0

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	1343		1344		457		457		457	
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total	
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**	0		0		0		0		0	
	Monthly Total			0							
	Daily Max	0		0		<2		0		0	
	Daily Min	0		0		<2		0		0	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**					10	0				
	Monthly Total			0	0						
	Daily Max					16	0				
	Daily Min										
	Weekly Avg										
QA/QC Information	**LOD**					2					
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification					737109450					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31	0	0			

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**	0	0			
	Monthly Total		0			
	Daily Max	0	0			
	Daily Min	0	0			
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	32242				
	2	40196				
	3	41830				
	4	26676				
	5					
	6					
	7					
	8					
	9	29109				
	10	37642				
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	34615.833333333				
	Monthly Total					
	Daily Max	41830				
	Daily Min	26676				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 11/15/2023 3:28:58 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 09/01/2023 - 09/30/2023
Form Due Date: 10/21/2023
Permit Number: 0065889

Date Received:	
DOC:	523843
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
Summary Values	**Monthly Avg**	0				
	Monthly Total					
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5			400
	Monthly Total					
	Daily Max		8.20	9		400
	Daily Min			6	7	
	Weekly Avg		5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		5	1		
	Monthly Total					
	Daily Max	93				
	Daily Min					
	Weekly Avg	80	5			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**			10		
	Monthly Total		0			
	Daily Max			16		
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

No dicsharged occurred

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 11/15/2023 3:30:10 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 10/01/2023 - 10/31/2023
Form Due Date: 11/21/2023
Permit Number: 0065889

Date Received:	
DOC:	531394
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	4759				
	7	6487		6.3	7.41	<1
	8	5820				
	9	3321	<2	6.4	7.36	<1
	10	5824	<2	6.9	7.51	
	11	4598				
	12	2600	<2	6.4	7.55	<1
	13	3458				
	14	6783				
	15	5434				
	16	5092	3	6.4	7.44	
	17	3737				
	18	5838	2	7.1	7.59	3
	19	1211	3	6.3	7.37	<1
	20	0				
	21	1718				
	22	5136				
	23	1026	3	6.2	7.48	<1
	24	1332				
	25	0				
	26	5115	2	6.2	7.61	<1
	27	5403				
	28	2920				
	29	2505	<2	6.7	7.34	<1
	30	6104				
	31	3488				

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	3216.419354839		1.444444444		6.49		7.466		0.375	
	Monthly Total										
	Daily Max	6783		3		7.1		7.61		3	
	Daily Min	0		<2		6.2		7.34		<1	
	Week 1 Avg										
	Week 2 Avg			0							
	Week 3 Avg			2.666666667							
	Week 4 Avg			2.5							
Limit(s) in Effect	**Monthly Avg**			5	0					400	0
	Monthly Total										
	Daily Max			8.20	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7	63	4.743	<0.011		
	8					
	9					
	10					
	11					
	12	68	4.1	<0.11		
	13					
	14					
	15	71				
	16					
	17					
	18	72	7.128	<0.011		
	19	72	2.7	<0.11		
	20					
	21					
	22					
	23	69	2.1	<0.011		
	24					
	25					
	26	69	1.9	<0.011		
	27					
	28					
	29	73				
	30					
	31				0	0

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**	69.625		3.7785		0		0		0	
	Monthly Total										
	Daily Max	73		7.128		<0.11		0		0	
	Daily Min	63		1.9		<0.011		0		0	
	Week 1 Avg	63		4.743							
	Week 2 Avg	68		4.1							
	Week 3 Avg	71.666666667		4.914							
	Week 4 Avg	69		2							
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	96	0								
	Daily Min										
	Weekly Avg	67	0	5	0						
QA/QC Information	**LOD**			0.43*Footnote		0.11*Footnote					
	LOQ			1.437*Footnote		0.37*Footnote					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

*Footnote: QA/QC Information is not identical for each day, so the value shown is the maximum of all values for LOD/LOQ data or the first Lab found for Lab Cert data.

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7			<2		
	8					
	9					
	10					
	11					
	12			<2		
	13					
	14					
	15					
	16					
	17					
	18			<2		
	19			<2		
	20					
	21					
	22					
	23			<2		
	24					
	25					
	26			<2		
	27					
	28					
	29					
	30					
	31	0	0		0	0

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	1343		1344		457		457		457	
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total	
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**	0		0		0		0		0	
	Monthly Total			0							
	Daily Max	0		0		<2		0		0	
	Daily Min	0		0		<2		0		0	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**					10	0				
	Monthly Total			0	0						
	Daily Max					16	0				
	Daily Min										
	Weekly Avg										
QA/QC Information	**LOD**					2					
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification					737109450					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31	0	0			

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**	0	0			
	Monthly Total		0			
	Daily Max	0	0			
	Daily Min	0	0			
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0			
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	29229				
	7	41535				
	8	33247				
	9	19795				
	10	31673	21.41	10.71	5.5	4.36
	11	27151				
	12	29371				
	13	22017				
	14	34094				
	15	32192				
	16	26336				
	17	31496				
	18	18890				
	19	9815				
	20	15335				
	21	29193				
	22	22300				
	23	26011				
	24	17676				
	25	36586				
	26	33565				
	27	22059				
	28	19800				
	29	38022				
	30	24624				
	31	26816				

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	22542.838709677	21.41	10.71	5.5	4.36
	Monthly Total					
	Daily Max	41535	21.41	10.71	5.5	4.36
	Daily Min	0	21.41	10.71	5.5	4.36
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**				0	
	LOQ				0	
	QC Exceedance	N	N	N	N	N
	Lab Certification				737109450	737109450

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 3/12/2024 10:40:36 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 11/01/2023 - 11/30/2023
Form Due Date: 12/21/2023
Permit Number: 0065889

Date Received:	
DOC:	531395
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	204
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Fecal Coliform
	Units	gpd	mg/L	su	mg/L	#/100ml
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	3/WEEK	WEEKLY	3/WEEK	WEEKLY
Sample Results	Day 1	0				
	2	3533	4	6.4	7.27	<1
	3	1677				
	4	0				
	5	1712	5	6.3	7.29	<1
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19					
	20	1819	3	6.5	7.40	
	21	4190	3	6.4	7.33	<1
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	211		66		377		186		204	
	Description	Flow Rate		BOD5, Total		pH Field		Dissolved Oxygen		Fecal Coliform	
	Units	gpd		mg/L		su		mg/L		#/100ml	
Summary Values	**Monthly Avg**	445.896551724		3.75		6.4		7.3225		0	
	Monthly Total										
	Daily Max	4190		5		6.5		7.4		<1	
	Daily Min	0		3		6.3		7.27		<1	
	Week 1 Avg			4.5							
	Week 2 Avg										
	Week 3 Avg			3							
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			10	0					400	0
	Monthly Total										
	Daily Max			8.2	0	9	0			400	0
	Daily Min					6	0	7	0		
	Weekly Avg			5	0						
QA/QC Information	**LOD**			2							
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450							

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	480	789	388	388	388
	Description	Temperature Maximum	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total
	Units	degF	mg/L	mg/L	lbs/day	lbs/month
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2	53	3.9	<0.011		
	3					
	4					
	5	50				
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20	52				
	21	51	2.3	<0.011		
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water	
	Parameter	480		789		388		388		388	
	Description	Temperature Maximum		Nitrogen, Ammonia (NH3-N) Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total	
	Units	degF		mg/L		mg/L		lbs/day		lbs/month	
Summary Values	**Monthly Avg**	51.5		3.1		0					
	Monthly Total										
	Daily Max	53		3.9		<0.011					
	Daily Min	50		2.3		<0.011					
	Week 1 Avg	51.5		3.9							
	Week 2 Avg										
	Week 3 Avg	51.5		2.3							
	Week 4 Avg										
Limit(s) in Effect	**Monthly Avg**			5	0	1	0				
	Monthly Total										
	Daily Max	996	0								
	Daily Min										
	Weekly Avg	54	0	5	0						
QA/QC Information	**LOD**			0.381		0.011					
	LOQ			1.272		0.037					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			737109450		737109450					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1343	1344	457	457	457
	Description	WQT Credits Used (TP)	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total
	Units	lbs/month	lbs/month	mg/L	lbs/day	lbs/month
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	MONTHLY
Sample Results	**Day 1**					
	2			<2		
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21			<2		
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30	0	0		0	0
	31					

	Sample Point	001		001		001		001		001					
	Description	UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water		UF/RO Discharge Water					
	Parameter	1343		1344		457		457		457					
	Description	WQT Credits Used (TP)		WQT Computed Compliance (TP)		Suspended Solids, Total		Suspended Solids, Total		Suspended Solids, Total					
	Units	lbs/month		lbs/month		mg/L		lbs/day		lbs/month					
Summary Values	**Monthly Avg**	0		0		0		0		0					
	Monthly Total			0											
	Daily Max	0		0		<2		0		0					
	Daily Min	0		0		<2		0		0					
	Week 1 Avg														
	Week 2 Avg														
	Week 3 Avg														
	Week 4 Avg														
Limit(s) in Effect	**Monthly Avg**					10	0								
	Monthly Total			0	0										
	Daily Max					16	0								
	Daily Min														
	Weekly Avg														
QA/QC Information	**LOD**					2									
	LOQ														
	QC Exceedance	N		N		N		N		N					
	Lab Certification					737109450									

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
	Sample Type	CALCULATED	CALCULATED	TOT DAILY	TOT DAILY	TOT DAILY
	Frequency	MONTHLY	MONTHLY	WEEKLY	WEEKLY	WEEKLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30	0	0			
	31					

	Sample Point	001	001	003	004	005
	Description	UF/RO Discharge Water	UF/RO Discharge Water	Conc. Centrate to Part. Farms	Conc. Centrate to Lagoon	Conc. Centrate to New Farms
	Parameter	1348	1347	211	211	211
	Description	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Flow Rate	Flow Rate	Flow Rate
	Units	lbs/month	lbs/month	gpd	gpd	gpd
Summary Values	**Monthly Avg**	0	0			
	Monthly Total		0			
	Daily Max	0	0			
	Daily Min	0	0			
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total		0	0		
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	TOT DAILY	GRAB	CALCULATED	GRAB	CALCULATED
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**	5404				
	2	6251				
	3	4878				
	4	6154				
	5	2391				
	6	709				
	7	1177				
	8	63				
	9	867				
	10	2025				
	11	65				
	12	0				
	13	689				
	14	118				
	15	96				
	16	2111				
	17	2057				
	18	2042				
	19	6559				
	20	4916				
	21	7421				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31					

	Sample Point	106	106	106	106	106
	Description	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	211	338	951	388	663
	Description	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total	Phosphorus, Available
	Units	gpd	lb/1000gal	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**	1866.433333333				
	Monthly Total					
	Daily Max	7421				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Monthly Total					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**	5404				
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 3/13/2024 9:12:49 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPRINGFIELD CLEAN WATER LLC
Contact Address: □□
□□ , □□
Facility Contact: , □□
Phone Number: □□
Reporting Period: 12/01/2023 - 12/31/2023
Form Due Date: 01/21/2024
Permit Number: 0065889

Date Received:	
DOC:	533803
FIN:	56051
FID:	113421330
Region:	South Central Region
Permit Drafter:	Brenda L Howald
Reviewer:	Reviewer not set
Office:	Reviewer not set

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	480
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Temperature Maximum
	Units	gpd	mg/L	su	mg/L	degF
	Sample Type	TOT DAILY	24 HR FLOW PROP	GRAB	GRAB	CONTINUOUS
	Frequency	DAILY	3/WEEK	5/WEEK	5/WEEK	DAILY
Sample Results	Day 1	0				
	2	0				
	3	0				
	4	0				
	5	0				
	6	0				
	7	0				
	8	0				
	9	0				
	10	0				
	11	0				
	12	0				
	13	0				
	14	0				
	15	0				
	16	0				
	17	0				
	18	0				
	19	0				
	20	0				
	21	0				
	22	0				
	23	0				
	24	0				
	25	0				
	26	0				
	27	0				
	28	0				
	29	0				
	30	0				
	31	0				

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	211	66	377	186	480
	Description	Flow Rate	BOD5, Total	pH Field	Dissolved Oxygen	Temperature Maximum
	Units	gpd	mg/L	su	mg/L	degF
Summary Values	**Monthly Avg**	0				
	Daily Max	0				
	Daily Min	0				
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**		10			
	Daily Max		16	9		
	Daily Min			6	7	
	Weekly Avg		10			
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	789	388	388	388	1343
	Description	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total	WQT Credits Used (TP)
	Units	mg/L	mg/L	lbs/day	lbs/month	lbs/month
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CALCULATED	CALCULATED
	Frequency	3/WEEK	WEEKLY	WEEKLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	789	388	388	388	1343
	Description	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total	WQT Credits Used (TP)
	Units	mg/L	mg/L	lbs/day	lbs/month	lbs/month
Summary Values	**Monthly Avg**					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**	5	1			
	Daily Max	8.2				
	Daily Min					
	Weekly Avg	9.9				
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1344	457	457	457	1348
	Description	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total	WQT Credits Used (TSS)
	Units	lbs/day	mg/L	lbs/day	lbs/month	lbs/month
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	CALCULATED	CALCULATED
	Frequency	MONTHLY	WEEKLY	WEEKLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
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	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water	UF/RO Discharge Water
	Parameter	1344	457	457	457	1348
	Description	WQT Computed Compliance (TP)	Suspended Solids, Total	Suspended Solids, Total	Suspended Solids, Total	WQT Credits Used (TSS)
	Units	lbs/day	mg/L	lbs/day	lbs/month	lbs/month
Summary Values	**Monthly Avg**					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**	0	10			
	Daily Max		16			
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	001	106	106	106	106
	Description	UF/RO Discharge Water	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	1347	211	338	951	388
	Description	WQT Computed Compliance (TSS)	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total
	Units	lbs/day	gpd	lb/1000gal	lb/1000gal	lb/1000gal
	Sample Type	CALCULATED	TOT DAILY	GRAB	CALCULATED	GRAB
	Frequency	MONTHLY	WEEKLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	**Day 1**					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
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	29					
	30					
	31					

	Sample Point	001	106	106	106	106
	Description	UF/RO Discharge Water	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product	Liquid Fertilizer Product
	Parameter	1347	211	338	951	388
	Description	WQT Computed Compliance (TSS)	Flow Rate	Nitrogen, Total	Nitrogen, Available	Phosphorus, Total
	Units	lbs/day	gpd	lb/1000gal	lb/1000gal	lb/1000gal
Summary Values	**Monthly Avg**					
	Daily Max					
	Daily Min					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**	0				
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**					
	LOQ					
	QC Exceedance					
	Lab Certification					

	Sample Point	106
	Description	Liquid Fertilizer Product
	Parameter	663
	Description	Phosphorus, Available
	Units	lb/1000gal
	Sample Type	CALCULATED
	Frequency	MONTHLY
Sample Results	**Day 1**	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
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	11	
	12	
	13	
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	31	

	Sample Point	106	
	Description	Liquid Fertilizer Product	
	Parameter	663	
	Description	Phosphorus, Available	
	Units	lb/1000gal	
Summary Values	**Monthly Avg**		
	Daily Max		
	Daily Min		
	Week 1 Avg		
	Week 2 Avg		
	Week 3 Avg		
	Week 4 Avg		
Limit(s) in Effect	**Monthly Avg**		
	Daily Max		
	Daily Min		
	Weekly Avg		
QA/QC Information	**LOD**		
	LOQ		
	QC Exceedance		
	Lab Certification		

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

No discharge occured

Laboratory Quality Control Comments

Submitted by Scott Hynds(scottdhynds) on 3/12/2024 8:39:29 PM

APPENDIX B – NRCS TECHNICAL STANDARD 327 AND CONSERVATION PRACTICE STANDARD

NATURAL RESOURCES CONSERVATION SERVICE

CONSERVATION PRACTICE STANDARD

CONSERVATION COVER

(Ac.)

CODE 327

DEFINITION

Establishing and maintaining permanent vegetative cover

PURPOSE

This practice is applied to support one or more of the following purposes:

- Reduce sheet, rill, and wind erosion and sedimentation.
- Reduce ground and surface water quality degradation by nutrients and surface water quality degradation by sediment.
- Reduce emissions of particulate matter (PM), PM precursors, and greenhouse gases.)
- Enhance wildlife, pollinator and beneficial organism habitat.
- Improve soil health.

CONDITION WHERE PRACTICE APPLIES

This practice applies on all lands needing permanent herbaceous vegetative cover. This practice does not apply to plantings for forage production or to critical area plantings. This practice can be applied on a portion of the field.

CRITERA

General Criteria Applicable to All Purposes

Select species that are adapted to the soil, ecological sites, and climatic conditions that are suitable for the planned purpose and site conditions. Periodic removal of some products such as high value trees, medicinal herbs, nuts, and fruits is permitted provided the conservation purpose is not compromised by the loss of vegetation or harvesting disturbance.

Inoculate legumes at planting time.

Choose seeding rates and planting methods that will be adequate to accomplish the planned purpose.

Planting dates, planting methods and care in handling and planting of the seed or planting stock shall ensure that planted materials have an acceptable rate of survival.

Prepare the site by establishing a consistent seeding depth. Eliminate weeds that would impede the establishment and growth of selected species.

Base the timing and equipment selection on the site and soil conditions.

Apply nutrients as needed to ensure crop establishment and planned growth.

Additional Criteria to Reduce Sheet, Rill, and Wind Erosion and Sedimentation

Determine and maintain the amount of plant biomass and cover needed to reduce wind and water erosion to the planned soil loss objective by using the current approved wind and/or water erosion prediction technology.

Additional Criteria to Reduce Emissions of Particulate Matter (PM), PM Precursors, and greenhouse gases

In perennial crop systems such as orchards, vineyards, berries and nursery stock, establish vegetation to provide full ground coverage in the alleyway during mowing and harvest operations to minimize generation of particulate matter.

Additional Criteria to Enhance Wildlife, Pollinator and Beneficial Organism Habitat

Plant a diverse mixture grasses and forbs

species to promote bio-diversity and meet the needs of the targeted species using approved habitat appraisal guides, evaluation tools, and appraisal worksheets for the respective state.

Locate habitat plantings to reduce pesticide exposures that could harm wildlife, pollinators, and other beneficial organisms.

Additional Criteria to Improve Soil Health

To maintain or improve soil organic matter, select plants that will produce high volumes of organic material. The amount of biomass needed will be determined using the current soil conditioning index procedure.

CONSIDERATIONS

This practice may be used to promote the conservation of wildlife species in general, including threatened and endangered species.

Certified seed and planting stock that is adapted to the site should be used when it is available.

Mowing may be needed during the establishment period to reduce competition from weeds.

On sites where annual grasses are an expected weed problem it may be necessary to postpone nitrogen fertilizer application until the planted species are well established.

Where applicable this practice may be used to conserve and stabilize archeological and historic sites.

Consider rotating management and maintenance activities (e.g. mow only one-fourth or one-third of the area each year) throughout the managed area to maximize spatial and temporal diversity.

Where wildlife management is an objective, the food and cover value of the planting can be enhanced by using a habitat evaluation procedure to aid in selecting plant species and by providing or managing for other habitat requirements necessary to achieve the objective. Encouraging plant species diversity and establishing plantings that result in multiple structural levels of vegetation within the conservation cover will maximize wildlife use.

Where pollinator and wildlife habitat are primary purposes consider less dense seeding rates as long as soil loss is within tolerable soil loss limits.

To provide habitat for natural enemies of crop pests, select a mix of plant species that provide year round habitat and food (accessible pollen or nectar) for the desired beneficial species. Consider habitat requirements of predatory and parasitic insects, spiders, insectivorous birds and bats, raptors, and terrestrial rodent predators. Consult Land Grant University Integrated Pest Management recommendations for beneficial habitat plantings to manage the target pest species.

Use a diverse mix of cover plant species that come into bloom at different times and provide a sequence of bloom throughout the year (e.g., plant at least three flowering species from each of the three bloom periods (spring, summer, and fall).

Where practical, use native species that are appropriate for the identified resource concern and management objective. Consider trying to re-establish the native plant community for the site.

If a native cover (other than what was planted) establishes, and this cover meets the intended purpose and the landowner's objectives, the cover should be considered adequate.

During vegetation establishment, natural mulches, such as wood products or hay, can be used to conserve soil moisture, support beneficial soil life, and suppress competing vegetation.

PLANS AND SPECIFICATIONS

Prepare plans and specifications for the site to include, but are not limited to:

- recommended species,
- seeding rates and dates,
- establishment procedures,
- management actions needed to insure and adequate stand

Specifications and operation and maintenance shall be recorded using approved Implementation Requirement document.

OPERATION AND MAINTENANCE

Mowing and harvest operations in a perennial crop system such as orchards, vineyards, berries, and nursery stock shall be done in a manner which minimizes the generation of particulate matter.

If wildlife habitat enhancement is a purpose, maintenance practices and activities shall not disturb cover during the reproductive period for the desired species. Exceptions should be considered for periodic burning or mowing when necessary to maintain the health of the plant community.

Control noxious weeds and other invasive species.

Mowing may be needed during the establishment period to reduce competition from weeds.

To benefit insect food sources for grassland nesting birds, spraying or other control of noxious weeds shall be done on a "spot" basis to protect forbs and legumes that benefit native pollinators and other wildlife.

Re-vegetate bare spots.

REFERENCES

Renard, K.G., G.R. Foster, G.A. Weesies, D.K. McCool and D.C. Yoder. 1997. Predicting Soil Erosion by Water: A Guide to Conservation Planning with the Revised Universal Soil Loss Equation (RUSLE), Agricultural Handbook Number 703.

Revised Universal Soil Loss Equation Version 2 (RUSLE2) website: http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/technical/

Wind Erosion Prediction System (WEPS) website: http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/technical/

Preventing or mitigating potential negative impacts of pesticides on pollinators using IPM and other conservation practices. Nat. Agron. Tech Note 9. Washington, DC. http://directives.sc.egov.usda.gov/

APPENDIX C – SNAPPLUS REPORTS

WQ1: P Trade Report

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov/** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

P Trade Report				PTP								
Field Name	Soil Series	Soil Symbol	Acres	2021	2022	2023	2024	2025	2026	2027	2028	2029
J Mom 4	OSHKOSH	OnA	17	7	12	17	19	7	12	18	19	8
J Mom 5	OSHKOSH	OnB	14	26	26	23	21	22	14	29	13	23
Total			**31**	**33**	**38**	**40**	**40**	**29**	**26**	**47**	**32**	**31**

WQ1: P Trade Report

Reported For	TINEDALE FARMS Subfarm: P-Trade
Printed	2024-03-14
Plan Completion/Update Date	2024-02-07
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Tinedale.3-7-2024.snapDb	

Prepared for:
TINEDALE FARMS
attn:Scott Theunis
2768 Poplar Street
Wrightstown, 54180

WPDES Permitted Farm

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov/** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

P Trade Report				PTP							
Field Name	Soil Series	Soil Symbol	Acres	2021	2022	2023	2024	2025	2026	2027	2028
J Mom 4	OSHKOSH	OnA	17	7	12	17	9	3	2	2	2
J Mom 5	OSHKOSH	OnB	14	26	26	23	14	3	3	3	3
Total			**31**	**33**	**38**	**40**	**23**	**6**	**5**	**5**	**5**

WQ2: Sediment Trade Report

The Sediment Trade Report estimates the annual tons of sediment in surface runoff from cropland entering surface waters. These sediment delivery calculations are based on RUSLE2 estimates of sheet and rill erosion for the predominant soil. Sediment losses from concentrated flow channel or gully erosion within a field are not included in these calculations. Field sediment yields are calculated for each year as US tons/field/year. Fields are only included if there at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, sediment losses must be converted into 'credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

Sediment Trading

Field Name	Soil Series	Soil Symbol	Acres	Sediment (US Tons)						
				2021	2022	2023	2024	2025	2026	2027
J Mom 4	OSHKOSH	OnA	17.3	0.5	0.3	0.3	0.8	0.5	0.3	0.3
J Mom 5	OSHKOSH	OnB	13.8	2.0	1.4	0.8	2.1	1.5	0.9	2.0
Total				2.5	1.6	1.1	2.9	2.0	1.2	2.3

Sediment (US Tons)	
2028	2029
0.8	0.5
1.0	2.1
1.9	2.5

WQ2: Sediment Trade Report

Reported For	TINEDALE FARMS Subfarm: P-Trade
Printed	2024-03-14
Plan Completion/Update Date	2024-02-07
SnapPlus Version 20.4 built on 2021-06-03	
C:\SnapPlus2\MySnapPlusData\Tinedale.3-7-2024.snapDb	

Prepared for:
TINEDALE FARMS
attn:Scott Theunis
2768 Poplar Street
Wrightstown, 54180

WPDES Permitted Farm

The Sediment Trade Report estimates the annual tons of sediment in surface runoff from cropland entering surface waters. These sediment delivery calculations are based on RUSLE2 estimates of sheet and rill erosion for the predominant soil. Sediment losses from concentrated flow channel or gully erosion within a field are not included in these calculations. Field sediment yields are calculated for each year as US tons/field/year. Fields are only included if there at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, sediment losses must be converted into 'credits' according to DNR guidance.

For more information go to **http://dnr.wi.gov** and type keyword: **Water Quality Trading**

Questions? Please contact DNRphosphorus@wisconsin.gov

This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.

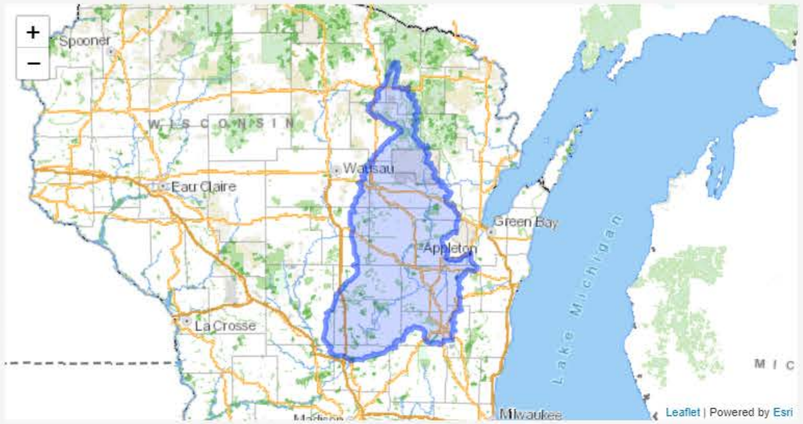
Sediment Trading

Field Name	Soil Series	Soil Symbol	Acres	Sediment (US Tons)						
				2021	2022	2023	2024	2025	2026	2027
J Mom 4	OSHKOSH	OnA	17.3	0.5	0.3	0.3	0.7	0.0	0.0	0.0
J Mom 5	OSHKOSH	OnB	13.8	2.0	1.4	0.8	1.3	0.1	0.0	0.0
Total				2.5	1.6	1.1	2.0	0.1	0.0	0.0

Sediment (US Tons)
2028
0.0
0.0
0.0

APPENDIX D – PRESTO REPORT

Select waterbody



Local watershed (HYDRO ID)
Cumulative upstream watershed

Search:

Reach information

Waterbody name: Fox River
Waterbody type: Stream
Natural Community: Large River
Watershed size (sq mi; sq km): 6,080; 15,700
HYDROID: 200212484
HUC12: 040302040405
HUC12 Name: City of Green Bay-Fox River
HUC6 Name: Fox
High-Quality Water: Yes
Ecoregion: Southeastern Wisconsin Till Plains
Sinuosity (m/m): 1
Minimum elevation (ft; m): 593.4; 180.9
Maximum elevation (ft; m): 593.4; 180.9
Average gradient (%): 8e-04
Stream order: 7
Dam directly above: Not Present
Drainage: Not internally drained

Download Watershed Shapefile
Download Raw Data

Intro | Watersheds | Lake Tools | Stream Tools | Streamflow | Presto

What Is Presto?

The Pollutant Load Ratio Estimation Tool (PRESTO) is a statewide GIS-based tool that compares the average annual phosphorus loads originating from point and nonpoint sources within a watershed. The comparison provides a screening tool for industrial and municipal dischargers to determine one of the conditions of eligibility for adaptive management as part of s. NR 217.18, Wisconsin Administrative Code.

PRESTO was designed to be easily modified, transparent to the end user and provide a consistent result based on readily available datasets. PRESTO performs three basic functions: watershed delineation, nonpoint source loading estimation and point source loading aggregation. The PRESTO outputs include a delineated watershed, watershed land cover composition, the estimated average annual nonpoint source and measured point source phosphorus loads (pounds per year), and the ratio of point to nonpoint phosphorus at a watershed outlet.

Presto Phosphorus Load Estimates

Avg. Annual Nonpoint Phosphorous Load (80% Confidence Interval)	785,631 (402,970 - 1,531,667) lbs
Number of Facilities (Individual Facility Information below)	104
Avg. Annual Point-source Phosphorous Load (2010 - 2012 total of all facilities)	185,368 lbs
Most Likely Point : Nonpoint Phosphorous Ratio	19% : 81%
Low Estimate Point : Nonpoint Phosphorous Ratio (Adaptive Management)	11% : 89%

Adaptive Management Results

Facilities discharging to the Fox River watershed:

Show 10 entries Search:

	Facility Name	Permit No.	Outfall No.	Waste Type	Receiving Water	Annual load (lbs), 2010-2012
1	EXPERA SPECIALTY SOLUTIONS, LLC	0000825	001	Industrial	Fox River	31257
2	OSHKOSH WASTEWATER TREATMENT PLANT	0025038	001	Municipal	Fox River	23900
3	APPLETON WASTEWATER TREATMENT FACILITY	0023221	001	Municipal	Fox River	22433
4	FOND DU LAC WATER POLLUTION CONTROL PLANT	0023990	003	Municipal	Lake Winnebago	17893
5	NEENAH MENASHA SEWER COMMISSION WWTF	0026085	001	Municipal	Fox River	14328
6	GRAND CHUTE MENASHA WEST SEWERAGE COMMISSION	0024686	001	Municipal	Little Lake Butte des Morts	7117
7	APPLETON COATED LLC, COMBINED LOCKS MILL	0000990	010	Industrial	Fox River	6982
8	HEART OF VALLEY MSD WW TRTMNT FAC	0031232	001	Municipal	Fox River	4361
9	SCA TISSUE NORTH AMERICA LLC	0037389	002	Industrial	LITTLE LAKE BUTTE DES MORTS	4323
10	WOLF TREATMENT PLANT	0028452	001	Municipal	Wolf River	4094

Showing 1 to 10 of 104 entries Previous 1 2 3 4 5 … 11 Next

Watershed Analysis Limitations

APPENDIX E – LANDOWNER-TINEDALE TRADING AGREEMENT

WATER QUALITY TRADING AGREEMENT

This Water Quality Trading Agreement ("Agreement") is made by and between Tetzlaff John Family LTD Partnership ("Landowner") and Tinedale Farms, LLC. ("Tinedale"), also referred to as "parties". In consideration for the obligations set forth below, the parties agree as follows:

A. Water quality trading ("WQT") is an alternative compliance option for Wisconsin Pollution Discharge Elimination System ("WPDES") permit holders, and it is authorized by Section 283.84 of the Wisconsin Statutes.
B. The Wisconsin Department of Natural Resources ("WDNR") has issued Water Quality Trading Guidance ("Guidance"). The most recent version was published in June 2020.
C. This Agreement sets forth an arrangement to meet the terms and requirements of WQT as set forth in Section 283.84(1) of the Wisconsin Statutes so that Tinedale shall achieve compliance with its WPDES permit.
D. Before WDNR can issue a WPDES permit that allows WQT, Tinedale must submit a trading plan ("WQT Plan") and checklist ("WQT Checklist").
E. Tinedale is the WPDES permit holder (Permit No. WI- 0058947) and seeks to discharge to the Lower Fox River. Tinedale will generate total phosphorus ("TP") and total suspended solids ("TSS") credits pursuant to this Agreement to fulfill its permit requirements.
F. The proposed outfall is located in the HUC-12 Subwatershed 040302040405 and is within the Lower Fox River Total Maximum Daily Load (TMDL).
G. All water quality credits generated and purchased pursuant to this Agreement shall be used for compliance within the month and year that the credits are generated and are not available for use before they are generated.
H. The Landowner owns the farm field (the "Fields") in which the TP and TSS credit-generating practices are located. The Fields are located in the HUC-12 Subwatershed 040302040405, which is the same HUC 12 as the outfall.
I. The Fields are named J Mom 4, a 17.3-acre field on parcel numbers R-273, R-274-2, and R-274, and J Mom 5, a 13.8-acre field on parcel numbers R-272-1, R-273, and R-274-2.
J. For the past three years the Fields have been in a traditional corn grain-soybean rotation.

Agreement Terms

a. Tinedale will convert the Fields to permanent grassland consistent with the requirements in the WQT Plan and NRCS Technical Standard 327.
b. Tinedale will have access to the Fields to perform all necessary implementation, inspection, and maintenance activities necessary to comply with the WQT Plan and NRCS Technical Standard 327.
c. All TP and TSS credits generated by converting the Fields to permanent grassland will be owned by Tinedale.
d. Unless the Agreement is terminated in accordance with par. (f) or is modified at permit re-issuance, this Agreement will continue through the end date of each successive WPDES Permit term.

e. Any duly authorized officer, employee, or representative of WDNR shall have the right to access and inspect the Fields so long as this Agreement remains in effect. Tinedale, through this agreement, shall ensure that WDNR staff and representatives have the right to access and inspect the Fields at reasonable times and upon notification so long as this Agreement remains in effect.

f. The Parties may terminate this Agreement by written mutual agreement at any time. Notice to terminate this Agreement must be providing at least sixty (60) days written notice to the parties of the Agreement.

g. This Agreement may be amended only by a further written document signed by each of the Parties.

h. This Agreement shall be effective upon signature by both Parties.

i. This Agreement shall be interpreted pursuant to the laws of the State of Wisconsin.

j. This Agreement may be executed in one or more counterparts, and all such executed counterparts shall constitute the same agreement. A signed copy of this Agreement transmitted by facsimile or email shall be treated as an original and shall be binding against the party whose signature appears on such copy.

k. If any provision of this Agreement is held invalid or unenforceable, the invalidity or unenforceability shall be limited to the particular provision involved and shall not affect the validity or enforceability of the remaining provisions, and the Parties shall work together in good faith to modify this Agreement if necessary to preserve its original intent.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the day and year entered below.

Tinedale:

Signature

Scott Thennis

(Name)

7/24/24

Date

Tetzlaff John Family LTD Partnership:

Signature

MARK TETZLAFF

(Name)

7/25/24

Date

APPENDIX F – WQT NOI AND REGISTRATION FORM

State of Wisconsin
Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921
dnr.wi.gov

Notice of Intent to Conduct Water Quality Trading

Form 3400-206 (1/14)

Notice: Pursuant to s. 283.84, Wis. Stats., and ch. NR 217 Wis. Adm. Code, this form must be completed by any WPDES permittee that is using water quality trading as a method of complying with a permit limitation. Failure to complete this form would not result in penalties. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Applicant Information

Permittee Name	Permit Number	Facility Site Number
Tinedale Farms, LLC	WI- 0058947	11740

Facility Address	City	State	ZIP Code
2768 Poplar Street	Wrightstown	WI	54180

Project Contact Name (if applicable)	Address	City	State	ZIP Code
Aubree Zenone	200 W. Adams St. - Suite 2700	Chicago	IL	60606

Project Name: Tinedale Farms

Receiving Water Name	Parameter(s) being traded	HUC 12(s)
Fox Creek	TP and TSS	Green Bay-Fox River (040302040405)

Is the permittee in a point or nonpoint source dominated watershed? (See PRESTO results - http://dnr.wi.gov/topic/surfacewater/presto.html)

- (●) Point source dominated
- ( ) Nonpoint source dominated

Credit Generator Information

Credit generator type (select all that apply):

- [ ] Permitted Discharge (non-MS4/CAFO)
- [ ] Permitted MS4
- [ ] Permitted CAFO
- [ ] Urban nonpoint source discharge
- [ ] Agricultural nonpoint source discharge
- [x] Other - Specify: Field Conversion

Are any of the credit generators in a different HUC 12 than the applicant?

- ( ) Yes; HUC 12: _____
- (●) No
- ( ) Unsure

Are any of the credit generators downstream of the applicant?

- (●) Yes
- ( ) No
- ( ) Unsure

Will a broker/exchange be used to facilitate trade?

- ( ) Yes; Name: _____
- (●) No
- ( ) Unsure

Point to Point Trades (Traditional Municipal / Industrial Discharge, MS4, CAFO)

Discharge Type	Permit Number	Name	Contact Address	Is the point source credit generator currently in compliance with their permit requirements?
( ) Traditional ( ) MS4 ( ) CAFO				( ) Yes ( ) No ( ) Unsure
( ) Traditional ( ) MS4 ( ) CAFO				( ) Yes ( ) No ( ) Unsure
( ) Traditional ( ) MS4 ( ) CAFO				( ) Yes ( ) No ( ) Unsure
( ) Traditional ( ) MS4 ( ) CAFO				( ) Yes ( ) No ( ) Unsure
( ) Traditional ( ) MS4 ( ) CAFO				( ) Yes ( ) No ( ) Unsure

Point to Nonpoint Trades (Non-permitted Agricultural, Non-Permitted Urban, etc.)

List the practices that will be used to generate credits:

Tinedale proposes a new discharge from their manure digester system. Tinedale has used the SnapPlus model to quantify the amount of potentially tradeable phosphorous and sediment credits from its fields assuming current farming practices continued, and then the amount after installation and maintenance of a permanent vegetative grassland. Using a trade ratio of 1.2:1, Tinedale calculated the TP and TSS water quality trading credits available per year based on the change in management practice from farming in corn and soybean rotation to permanent vegetative cover for a portion of an existing farm field.

Method for quantifying credits generated:

- ☐ Monitoring
- ☒ Modeling, Names: SnapPlus (Version 20)
- ☐ Other: _____

Projected date credits will be available: 10/01/2024

The preparer certifies all of the following:

- I am familiar with the specifications submitted for this application, and I believe all applicable items in this checklist have been addressed.
- I have completed this document to the best of my knowledge and have not excluded pertinent information.

Signature of Preparer	Date Signed
	5/28/24

Authorized Representative Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, 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.

Signature of Authorized Representative	Date Signed
	5/28/24

State of Wisconsin
Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921
dnr.wi.gov

Water Quality Trading Management Practice Registration

Form 3400-207 (R 1/14)

Notice: Pursuant to s. 283.84, Wis. Stats., this form must be completed by any WPDES permittee that is using water quality trading as a method of complying with a permit limitation. Failure to complete this form would not result in penalties. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Applicant Information

Permittee Name	Permit Number	Facility Site Number
Tinedale Farms, LLC	WI- 0058947	11740

Facility Address	City	State	ZIP Code
2768 Poplar Street	Wrightstown	WI	54180

Project Contact Name (if applicable)	Address	City	State	ZIP Code
Aubree Zenone	200 W. Adams St - Suite 2700	Chicago	IL	60606

Project Name

Broker/Exchange Information (if applicable)

Was a broker/exchange be used to facilitate trade? ◯ Yes ◉ No

Broker/Exchange Organization Name	Contact Name
N/A	N/A

Address	Phone Number	Email
N/A		

Trade Registration Information (Use a separate form for each trade agreement)

Type	Trade Agreement Number	Practices Used to Generate Credits	Anticipated Load Reduction	Trade Ratio	Method of Quantification
◯ Urban NPS ◯ Agricultural NPS ◉ Other	WQT-2024-0010	Field conversion to native mesic prairie according to Technical Standard 327.	9.53 lbs TP 1784.6 lbs TSS	1.2:1	SnapPlus (Version 20)

County	Closest Receiving Water Name	Land Parcel ID(s)	Parameter(s) being traded
Brown	Fox River	W-182	TP and TSS

The preparer certifies all of the following:

- I have completed this document to the best of my knowledge and have not excluded pertinent information.
- I certify that the information in this document is true to the best of my knowledge.

Signature of Preparer	Date Signed
	5/28/2024

Authorized Representative Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, 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.

Signature of Authorized Representative	Date Signed
	5/28/2024

Leave Blank – For Department Use Only

Date Received		Trade Docket Number
Entered in Tracking System ☐ Yes	Date Entered	Name of Department Reviewer

State of Wisconsin
Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921
dnr.wi.gov

Water Quality Trading Checklist

Form 3400-208 (1/14)

Notice: Pursuant to s. 283.84, Wis. Stats., this form must be completed by any WPDES permittee that intends to pursue pollutant trading as a method of complying with a permit limitation. Failure to complete this form would not result in penalties. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Applicant Information

Permittee Name	Permit Number	Facility Site Number
Tinedale Farms, LLC	WI- 0058947	11740

Facility Address	City	State	ZIP Code
2768 Poplar Street	Wrightstown	WI	54180

Project Contact Name (if applicable)	Address	City	State	ZIP Code
Aubree Zenone	200 W. Adams St. - Suite 2700	Chicago	IL	60606

Project Name: Tinedale Farms

Receiving Water Name	Parameter(s) being traded	HUC 12(s)
Fox River	TP and TSS	040302040405

Credit Generator Information

Credit generator type (select all that apply):

- ☐ Permitted Discharge (non-MS4CAFO)
- ☐ Permitted MS4
- ☐ Permitted CAFO
- ☐ Urban nonpoint source discharge
- ☐ Agricultural nonpoint source discharge
- ☒ Other - Specify: Field Conversion

Are any of the credit generators in a different HUC 12 than the applicant?

- ○ Yes; HUC 12:
- ◉ No

Are any of the credit generators downstream of the applicant?

- ◉ Yes
- ○ No

Will a broker/exchange be used to facilitate trade?

- ○ Yes *(include description and contact information in WQT plan)*
- ◉ No

Point to Point Trades (Traditional Municipal / Industrial, MS4, CAFO)

Are each of the point source credit generators identified in this section in compliance with their WDPES permit requirements?

- ◉ Yes
- ○ No

Discharge Type	Permit Number	Name	Contact Information	Trade Agreement Number
○ Traditional ○ MS4 ○ CAFO				
○ Traditional ○ MS4 ○ CAFO				
○ Traditional ○ MS4 ○ CAFO				
○ Traditional ○ MS4 ○ CAFO				
○ Traditional ○ MS4 ○ CAFO				

Point to Point Trades (Traditional Municipal / Industrial, MS4, CAFO) *cont.*

Does plan have a narrative that describes:			Plan Section
a. Summary of discharge and existing treatment including optimization	◯ Yes	◯ No	
b. Amount of credit being generated	◯ Yes	◯ No	
c. Timeline for credits and agreements	◯ Yes	◯ No	
d. Method for quantifying credits	◯ Yes	◯ No	
e. Tracking and verification procedures	◯ Yes	◯ No	
f. Location of credit generator in proximity to receiving water and credit user	◯ Yes	◯ No	
g. Other: _____	◯ Yes	◯ No	

Point to Nonpoint Trades (Non-Permitted Urban, Agricultural, Other)

Discharge Type	Practices Used to Generate Credits	Method of Quantification	Trade Agreement Number	Have the practice(s) been formally registered?
◯ Urban NPS ◉ Agricultural NPS ◯ Other	Cropping rotation to permanent native prairie	SnapPlus (Version 20)	WQT-2024-0010	◉ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part
◯ Urban NPS ◯ Agricultural NPS ◯ Other				◯ Yes ◯ No ◯ Only in part

Does plan have a narrative that describes:			Plan Section
a. Description of existing land uses	◉ Yes	◯ No	Background
b. Management practices used to generate credits	◉ Yes	◯ No	TrdngCredits
c. Amount of credit being generated	◉ Yes	◯ No	TrdngCredits
d. Description of applicable trade ratio per agreement/management practice	◉ Yes	◯ No	TrdngCredits
e. Location where credits will be generated	◉ Yes	◯ No	TrdngCredits
f. Timeline for credits and agreements	◉ Yes	◯ No	TrdngCredits
g. Method for quantifying credits	◉ Yes	◯ No	TrdngCredits

Does plan have a narrative that describes:			Plan Section
h. Tracking procedures	◉ Yes	○ No	Agreements
i. Conditions under which the management practices may be inspected	◉ Yes	○ No	Agreements
j. Reporting requirements should the management practice fail	◉ Yes	○ No	Agreements
k. Operation and maintenance plan for each management practice	◉ Yes	○ No	Agreements
l. Location of credit generator in proximity to receiving water and credit user	◉ Yes	○ No	Background
m. Practice registration documents, if available	◉ Yes	○ No	Appendices
n. History of project site(s)	◉ Yes	○ No	Background
o. Other: _____	○ Yes	◉ No	

The preparer certifies all of the following:

- I am familiar with the specifications submitted for this application, and I believe all applicable items in this checklist have been addressed.
- I have completed this document to the best of my knowledge and have not excluded pertinent information.
- I certify that the information in this document is true to the best of my knowledge.

Signature of Preparer	Date Signed
	7/22/2024

Authorized Representative Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, 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.

Signature of Authorized Representative	Date Signed
	7/22/2024


BURNS McDONNELL