



Delaware Department of Natural Resources and Environmental Control

Division of Water, Groundwater Discharges Section
89 Kings Highway, Dover DE 19901 (302) 739-9948

Annual Report for Reporting Year 2023

Permittee	The Town Of Millsboro		
Facility Name	Town Of Millsboro WWTF	Date	2/28/2024
Mailing Address	322 Wilson Highway Millsboro DE 19966	Permit Number	528516-05

Attached Documentation (Please check)

- | | |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------|
| <input type="checkbox"/> 6.8.2.4.1.3 QA/QC Report | <input type="checkbox"/> 6.9.14.2 Design Nitrogen Balance |
| <input checked="" type="checkbox"/> 6.9.1.9 Biosolids Removed | <input checked="" type="checkbox"/> 6.9.14.3 Soils Chemical Data |
| <input type="checkbox"/> 6.9.1.12 Vegetative Management | <input type="checkbox"/> 6.9.14.4 Map - Ponding, Pooling or Runoff Areas |
| <input checked="" type="checkbox"/> 6.9.1.13 Calibration Certificates | <input type="checkbox"/> 6.9.14.5 NRCS Nutrient Removal by Crop Tool |

Principal Executive Officer

Name	Jim Kells	Phone Number	302-934-8171
Title	Mayor		

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete and the analyses has been conducted in accordance with the requirements of Section 6.8 of the Regulations Governing The Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems.

I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. See 7 Del. C. Chapter 60 §6013 (b). Penalties under these statutes may include fines up to \$5,000 and or maximum imprisonment of up to 6 months.

Operator Completing Reporting Documentation

Name	Richard Plack	Phone Number	302-430-2825	
License Number	645	Expiration Date	7/1/2025	
		Operator Classification	IV	
Signature			Date	2/28/2024

Direct Responsible Charge Operator

Name	Richard Buckler	Phone Number	302-249-9831	
License Number	199	Expiration Date	7/1/2024	
		Operator Classification	IV	
Signature			Date	2/28/2024

Annual Report General Requirements

Permittees covered under the State of Delaware *Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems* must submit an annual report. The permittee shall submit to the Department an annual report summarizing the operations, management, administration and maintenance of the facility for the calendar year. The annual report must be submitted to the Department on or before February 28th of each year. The report **must be free of staples** and must be submitted to the address identified in Section 6.8.4 unless otherwise specified in the facility's permit.

The report must, at a minimum, include the following applicable items. The report must also include any additional items specified in the facility's permit.

Regulations	Annual Report Components	Worksheet	<input type="checkbox"/>
6.8.2.4.1.3	QA/QC Confirmation ¹		<input checked="" type="checkbox"/>
6.9.1.1.1 - 6.9.1.1.4	Influent Flow to Treatment	1	<input checked="" type="checkbox"/>
6.9.1.2.1 - 6.9.1.2.4	Effluent Flow to Disposal	1	<input checked="" type="checkbox"/>
6.9.1.3	Total Number of Dwellings/Units	3	<input checked="" type="checkbox"/>
6.9.1.4	Number of Dwellings/Units connected this year	3	<input checked="" type="checkbox"/>
6.9.1.5	Effluent BOD5 annual average concentration, mg/L	1	<input checked="" type="checkbox"/>
6.9.1.6	Effluent TSS annual average concentration, mg/L	1	<input checked="" type="checkbox"/>
6.9.1.7	Effluent Total Nitrogen average and loading	1	<input checked="" type="checkbox"/>
		2	<input checked="" type="checkbox"/>
6.9.1.8	Effluent Total Phosphorus average and loading	1	<input checked="" type="checkbox"/>
		2	<input checked="" type="checkbox"/>
6.9.1.9	Biosolids Information ¹	3	<input checked="" type="checkbox"/>
6.9.1.10	Weather Related Information	1	<input checked="" type="checkbox"/>
6.9.1.11	Operational and Maintenance Activities	3	<input type="checkbox"/>
6.9.1.12	Vegetative Management Practices ¹		<input checked="" type="checkbox"/>
6.9.1.13	Calibration Certificates ¹		<input checked="" type="checkbox"/>
6.9.1.14.1 (Spray only)	Loading Calculations	2	<input checked="" type="checkbox"/>
6.9.1.14.2 (Spray only)	Nitrogen Balance ¹	2	<input type="checkbox"/>
6.9.1.14.3 (Spray only)	Soils Report ¹		<input checked="" type="checkbox"/>
6.9.1.14.4 (Spray only)	Map- ponding/pooling in spray areas ¹		<input type="checkbox"/>
6.9.1.14.5 (Spray only)	Crop Removal Information ¹	2	<input checked="" type="checkbox"/>

[1] Operator to include supplemental information as an attachment

Worksheet 1

Where applicable, data may be transferred from the DMR's.

Parameter	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Annual Daily Average (Total/365)	Annual Monthly Average (Total/12 mos.)	Peak Monthly Flow (gal)	Permit Monthly Design Limit	Max Depth (Net Including Freeboard)
Influent Flow to Treatment	gall/mo	2,070,154	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,070,154	5,672	172,513			
Effluent Flow to all Spray areas combined	gall/mo	18,515,600	16,773,200	19,616,700	20,470,700	16,440,324	16,522,314	14,872,830	11,901,529	18,408,945	22,256,100	20,564,500	19,838,100	216,180,842	592,278	18,015,070			
Total nitrogen in spray effluent	mg/L	27.2	24.2	26.7	20.8	13.49	8.085	2.93	2.267	11.506	16.3	20.55	15.733			15.8			
Ammonia in spray effluent	mg/L	0.08	0.08	0.08	3.54	2.985	0.05	4.76	0.05	3.1275	0.05	0.06	0.05			1.24			
Total phosphorus in spray effluent	mg/L	0.82	0.89	1.875	1.64	1.477	1.77	1.34	0.99	1.2625	0.51	1.16	1.32			1.25			
BOD ₅ ¹	mg/L	<4	9.6	<4	<4	13.03	5.2	4.3	4.1	8.62	<4	4.5	14.867			8.02			
TSS ²	mg/L	2.6	<2	2.2	<2	8.53	2.6	2.4	2.2	4.234	<2	<2	9.1			4.23			
Monthly Total Precipitation ³	in/ mo-acre	1.2	0.00	1.13	3.75	5.75	3.60	4.10	0.50	8.25	2.00	2.75	12.00	44.98		3.75			
Storage Lagoon 1																			
Monthly Average Total Volume Stored	feet																		
Storage Lagoon 2																			
Monthly Average Total Volume Stored	feet																		
Treatment Lagoon and Storage Surface	acres																		

¹⁾ Facilities that are not required to collect effluent BOD₅ are exempt from 6.9.1.5

²⁾ Facilities that are not required to collect effluent TSS are exempt from 6.9.1.6

³⁾ 6.9.1.10 specifies daily rainfall, temperature, wind speed and direction. Only submit monthly precipitation in the above table. The GWDS will review this information during the Annual Inspection. Continue to maintain this information in the operator's log book, as noted in 6.7.3. For any given month, if samples are not taken for Nitrogen, Ammonia, Phosphorus, BOD or TSS, please leave those cells blank for that month.

This Worksheet satisfies: 6.9.1.1, 6.9.1.2, 6.9.1.5, 6.9.1.6, 6.9.1.7 (in part), 6.9.1.8 (in part), 6.9.1.10 (in part), 6.9.1.14.2 (in part)

Worksheet 2

Zone, pivot or field

White Farm Pivot rt 20

Wetted Area (acres):

82

Nearest Weather Station:

Georgetown, S.W.

Default Yield (bu/acre)

Com	N/A
	225
	N/A

Measured Yield (bu/acre)

Com	245
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Actual N Removal If Known (lbs/acre/year)

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Actual P Removal If Known (lbs/acre/year)

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Parameter	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Average	Permit Limit / Design Value
Crop		Cover	Cover	Cover	Cover	Corn	Corn	Corn	Corn	Corn	Corn	Corn	Corn			
Effluent to Spray	gal/mo	0	0	0	3,763,976	1,148,416	1,856,182	6,454,498	6,416,303	1,155,549	0	0	0	20,793,924	1,732.827	
Effluent to Spray	gal/acre	0	0	0	45,890	14,005	22,636	78,713	78,248	14,092	0	0	0	253,584	21,132	
Days Sprayed	days/mo				6	3	4	11	11	3				38	3	
Total nitrogen in spray effluent	lb/acre-mo	0.0	0.0	0.0	8.0	1.6	1.5	1.9	1.5	1.4	0.0	0.0	0.0	15.8		
Total nitrogen from commercial fertilizer	lb/acre-mo	0.0	0.0	0.0	2.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	4.8		
Total nitrogen from biosolids	lb/acre-mo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
Total nitrogen applied	lb/acre-mo	0.0	0.0	0.0	9.8	2.2	1.5	3.7	2.1	1.4	0.0	0.0	0.0	20.7		
Crop nitrogen removal	lb/acre-mo	#N/A	#N/A	#N/A	#N/A	25.4	44.0	57.5	35.5	3.4	0.0	0.0	#N/A	#N/A		
Total nitrogen removal	lb/acre-mo	#N/A	#N/A	#N/A	#N/A	25.7	44.2	58.2	35.8	3.6	0.0	0.0	#N/A	#N/A		
Nitrogen Percolate	mg/L	#N/A	#N/A	#N/A	#N/A	0.0	#DIV/0!	0.0	#DIV/0!	0.0	18.7	1.0	#N/A	#N/A	#N/A	10.0
Total phosphorus in spray effluent	lb/acre-mo	0.0	0.0	0.0	0.6	0.2	0.3	0.9	0.6	0.1	0.0	0.0	0.0	2.8		
Total phosphorus from commercial fertilizer	lb/acre-mo	0	0	0	0	0	0	0	0	0	0	0	0	-		
Total phosphorus from biosolids	lb/acre-mo	0	0	0	0	0	0	0	0	0	0	0	0	-		
Total phosphorus applied	lb/acre-mo	0.0	0.0	0.0	0.6	0.2	0.3	0.9	0.6	0.1	0.0	0.0	0.0	2.8		

Instructions:

- 1) Each zone, pivot, or field should have a separate worksheet. Worksheet 2 may be copied and pasted to accommodate multiple areas.
- 2) Where applicable, data may be transferred from the DIMR's.
- 3) Fill out all orange cells that are applicable.
- 4) The order of the crop list (Crop 1, Crop 2, Crop 3) does not matter. If fewer than three crops are planted, the remaining crop listings can either be set to 'Cover' or left blank.
- 5) Total Nitrogen Applied is compared (without adjustment) to your Permitted Nitrogen Loading Limit.

Notes:

- 1) 25% of nitrogen from fertilizer and biosolids is considered available the current month, and 25% available the following month. (With the exception of January.)
- 2) This worksheet uses a standard set of assumptions for monthly uptake based on a typical planting cycle. If crops are planted ahead or behind this schedule, these assumptions may not be valid.
- 3) For cases where non-standard conditions are present, alternate calculations with appropriate justification may be submitted for approval.
- 4) This Worksheet satisfies: 6.9.1.7 (in part), 6.9.1.8 (in part), 6.9.1.14.1, 6.9.1.14.2 (in part), and 6.9.1.14.5

Worksheet 2

Zone, pivot or field

Millsboro Middleschool E. Statestreet

Wetted Area (acres):

8.5 Nearest Weather Station: Georgetown 5 SW

Default Yield If Known (bu/acre)

Crop 1:	N/A
Crop 2:	N/A
Crop 3:	N/A

Measured Yield If Known (bu/acre)

Actual N Removal If Known (lbs/acre/year)

Actual P Removal If Known (lbs/acre/year)

Parameter	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Average	Permit Limit/Design Value
Crop		Turf Grass	Turf Grass	Turf Grass	Turf Grass	Turf Grass	Turf Grass	Turf Grass	Turf Grass	Turf Grass	Turf Grass	Turf Grass	Turf Grass			
Effluent to Spray	gal/mo	0	0	6,256	373,267	44,422	1,689,416	1,073,447	744,213	0	0	0	0	3,931,021	327,585	
Effluent to Spray	gal/acre	0	0	736	43,914	5,226	198,755	126,288	87,554	0	0	0	0	462,473	36,539	
Days Sprayed	days/mo	-	-	1	13	1	25	23	13	-	-	-	-	76	6	
Total nitrogen in spray effluent	lb/acre-mo	0.0	0.0	0.1	4.9	0.4	4.9	2.4	8.4	0.0	0.0	0.0	0.0	21.1		
Total nitrogen from commercial fertilizer	lb/acre-mo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
Total nitrogen from biosolids	lb/acre-mo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
Total nitrogen applied	lb/acre-mo	0.0	0.0	0.1	4.9	0.4	4.9	2.4	8.4	0.0	0.0	0.0	0.0	21.1		
Crop nitrogen removal	lb/acre-mo	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		
Total nitrogen removal	lb/acre-mo	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		
Nitrogen Percolate	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		10.0
Total phosphorus in spray effluent	lb/acre-mo	0.0	0.0	0.0	0.0	0.5	2.2	1.0	0.9	0.0	0.0	0.0	0.0	4.8		
Total phosphorus from commercial fertilizer	lb/acre-mo	0	0	0	0	0	0	0	0	0	0	0	0	-		
Total phosphorus from biosolids	lb/acre-mo	0	0	0	0	0	0	0	0	0	0	0	0	-		
Total phosphorus applied	lb/acre-mo	0.0	0.0	0.0	0.0	0.5	2.2	1.0	0.9	0.0	0.0	0.0	0.0	4.8		

Instructions:
 1) Each zone, pivot, or field should have a separate worksheet. Wksht 2 may be copied and pasted to accommodate multiple areas.
 2) Where applicable, data may be transferred from the DMR's.
 3) Fill out all orange cells that are applicable.
 4) The order of the crop list (Crop 1, Crop 2, Crop 3) does not matter. If fewer than three crops are planted, the remaining crop listings can either be set to 'Cover' or left blank.
 5) Total Nitrogen Applied is compared (without adjustment) to your Permitted Nitrogen Loading Limit.

Notes:
 1) 75% of nitrogen from fertilizer and biosolids is considered available the current month, and 25% available the following month. (With the exception of January.)
 2) This worksheet uses a standard set of assumptions for monthly uptake based on a typical planting cycle. If crops are planted ahead or behind this schedule, these assumptions may not be valid.
 3) For cases where non-standard conditions are present, alternate calculations with appropriate justification may be submitted for approval.
 4) This Worksheet satisfies: 6.9.1.7 (in part), 6.9.1.8 (in part), 6.9.1.14.1, 6.9.1.14.2 (in part), and 6.9.1.14.5

Design Nitrogen Balance

If available, compare the most recent Design Nitrogen Balance for the facility to the actual operating data summarized in Worksheets 1 & 2. Provide any comments relative to major discrepancies. Attach a copy with the Annual Report. (Check one of the following)

- I do not have a copy of the Design Nitrogen Balance and have exhausted all measures of acquiring one, even contacting the DNREC - GWDS.
- I have attached a copy of the most recent Design Nitrogen Balance and have compared the design values to this year's operation of the facility.

Comments:

I have reached out to dnrec for this but not in time for submittle as this is the first time I have herd of this document was while compleating this years report.

Worksheet 3

Total number of dwelling units connected to the system ¹	<u>4419</u>
Number of dwelling units connected this calendar year ²	<u>295</u>

Biosolids removed 943.73 tons

Date 1-1-2023 to 12-31-2023

Hauler Town of Millsboro

Destination Jones crosroads landfill

Attach map, if applied to any spray irrigation field

Operational and Maintenance Activities.

Please check here if additional attachments are included.

[1] Permittees that do not have a permit restriction related to dwellings/units are exempt from 6.9.1.3.

[2] Permittees that do not have a permit restriction related to dwellings/units are exempt from 6.9.1.4.

This Worksheet satisfies: 6.9.1.3, 6.9.1.4, 6.9.1.9 and 6.9.1.11

Worksheet 3

Total number of dwelling units connected to the system ¹	<u>4419</u>
Number of dwelling units connected this calendar year ²	<u>295</u>

Biosolids removed 64,400 Gallons

Date August 31st, September 1,5, & December 12

Hauler CDI

Destination DELCORA

Attach map, if applied to any spray irrigation field

Operational and Maintenance Activities.

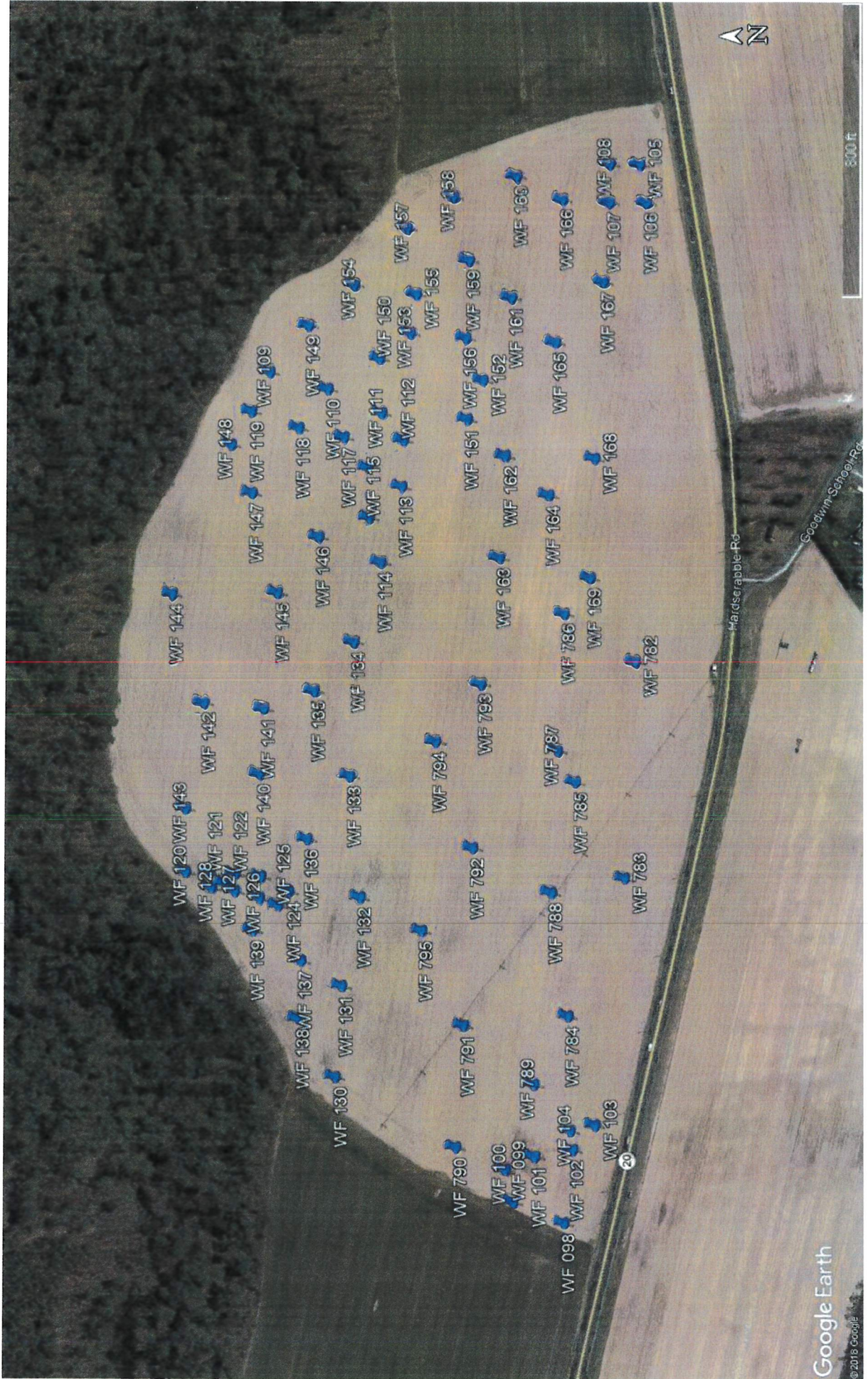
Please check here if additional attachments are included.

[1] Permittees that do not have a permit restriction related to dwellings/units are exempt from 6.9.1.3.

[2] Permittees that do not have a permit restriction related to dwellings/units are exempt from 6.9.1.4.

This Worksheet satisfies: 6.9.1.3, 6.9.1.4, 6.9.1.9 and 6.9.1.11

White Farm Soils



ENVIROCORP LABORATORIES INC.



51 CLARK STREET, HARRINGTON, DE 19952
 302-398-4313
 www.envirocorpplabs.com



ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: ArH 1 [0-12"] **Sample Start:** 12/28/23 11:40
Lab ID: 2312339-01
Matrix: Soil **Received:** 12/29/23 14:14
Sample Type: Composite

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
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Inorganic

P205	595	mg/kg	0.00417		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.55	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	260	mg/kg	0.00182		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK

Metals

Potassium	164	mg/kg	0.198		EPA 6010	1/24/24 9:00	1/24/24 14:03	JMW
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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: ArH 1 [12-24"] **Sample Start:** 12/28/23 12:20
Lab ID: 2312339-02
Matrix: Soil **Received:** 12/29/23 14:14
Sample Type: Composite

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
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Inorganic

P205	501	mg/kg	0.00345		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.68	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	219	mg/kg	0.00150		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK

Metals

Potassium	178	mg/kg	0.199		EPA 6010	1/24/24 9:00	1/24/24 14:06	JMW
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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: ArH 2 [0-12"] **Sample Start:** 12/29/23 10:22
Lab ID: 2312339-03
Matrix: Soil **Received:** 12/29/23 14:14
Sample Type: Composite

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
Inorganic								
P205	491	mg/kg	0.00409		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.42	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	215	mg/kg	0.00178		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK
Metals								
Potassium	160	mg/kg	0.197		EPA 6010	1/24/24 9:00	1/24/24 14:10	JMW

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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: ArH 2 [12-24"]	Sample Start: 12/29/23 11:00
Lab ID: 2312339-04	
Matrix: Soil	
Sample Type: Composite	Received: 12/29/23 14:14

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
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Inorganic

P205	276	mg/kg	0.00398		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.55	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	120	mg/kg	0.00174		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK

Metals

Potassium	167	mg/kg	0.197		EPA 6010	1/24/24 9:00	1/24/24 14:14	JMW
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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: ArH 3 [0-12"] **Sample Start:** 12/28/23 14:05
Lab ID: 2312339-05
Matrix: Soil **Received:** 12/29/23 14:14
Sample Type: Composite

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
Inorganic								
P205	534	mg/kg	0.00387		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.31	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	233	mg/kg	0.00169		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK
Metals								
Potassium	162	mg/kg	0.198		EPA 6010	1/24/24 9:00	1/24/24 14:17	JMW

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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: ArH 3 [12-24"] **Sample Start:** 12/28/23 15:10
Lab ID: 2312339-06
Matrix: Soil
Sample Type: Composite **Received:** 12/29/23 14:14

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
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Inorganic

P205	245	mg/kg	0.00414		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.70	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	107	mg/kg	0.00181		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK

Metals

Potassium	229	mg/kg	0.198		EPA 6010	1/24/24 9:00	1/24/24 14:21	JMW
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ENVIROCORP LABORATORIES INC.



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 302-398-4313
 www.envirocorpplabs.com



ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: TyH 1 [0-12"] **Sample Start:** 12/28/23 13:00
Lab ID: 2312339-07
Matrix: Soil
Sample Type: Composite **Received:** 12/29/23 14:14

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
Inorganic								
P205	460	mg/kg	0.00356		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.52	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	201	mg/kg	0.00156		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK
Metals								
Potassium	169	mg/kg	0.198		EPA 6010	1/24/24 9:00	1/24/24 14:24	JMW

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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: TyH 1 [12-24"] **Sample Start:** 12/28/23 14:00
Lab ID: 2312339-08
Matrix: Soil **Received:** 12/29/23 14:14
Sample Type: Composite

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
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Inorganic

P205	256	mg/kg	0.00345		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.49	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	112	mg/kg	0.00150		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK

Metals

Potassium	163	mg/kg	0.199		EPA 6010	1/24/24 9:00	1/24/24 14:32	JMW
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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: TyH 2 [0-12"] **Sample Start:** 12/29/23 11:39
Lab ID: 2312339-09
Matrix: Soil **Received:** 12/29/23 14:14
Sample Type: Composite

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
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Inorganic

P205	410	mg/kg	0.00364		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.63	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	179	mg/kg	0.00159		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK

Metals

Potassium	207	mg/kg	0.199		EPA 6010	1/24/24 9:00	1/24/24 14:35	JMW
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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: TyH 2 [12-24"] **Sample Start:** 12/29/23 12:15
Lab ID: 2312339-10
Matrix: Soil **Received:** 12/29/23 14:14
Sample Type: Composite

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
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Inorganic

P205	178	mg/kg	0.00349		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	7.03	SU			SM4500-H+B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	77.8	mg/kg	0.00152		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK

Metals

Potassium	245	mg/kg	0.200		EPA 6010	1/24/24 9:00	1/24/24 14:39	JMW
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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: AqArH [0-12"] **Sample Start:** 12/28/23 12:35
Lab ID: 2312339-11
Matrix: Soil **Received:** 12/29/23 14:14
Sample Type: Composite

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
Inorganic								
P205	406	mg/kg	0.00421		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.25	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	177	mg/kg	0.00184		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK
Metals								
Potassium	181	mg/kg	0.198		EPA 6010	1/24/24 9:00	1/24/24 14:42	JMW

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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: AqArH [12-24"] **Sample Start:** 12/28/23 12:57
Lab ID: 2312339-12
Matrix: Soil
Sample Type: Composite **Received:** 12/29/23 14:14

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
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Inorganic

P205	282	mg/kg	0.00382		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.64	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	123	mg/kg	0.00167		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK

Metals

Potassium	185	mg/kg	0.197		EPA 6010	1/24/24 9:00	1/24/24 14:46	JMW
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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: AqH [0-12"] **Sample Start:** 12/29/23 11:05
Lab ID: 2312339-13
Matrix: Soil **Received:** 12/29/23 14:14
Sample Type: Composite

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
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Inorganic

P205	492	mg/kg	0.00398		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.28	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	215	mg/kg	0.00174		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK

Metals

Potassium	172	mg/kg	0.197		EPA 6010	1/24/24 9:00	1/24/24 14:49	JMW
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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

Town of Millsboro	Project: White Farm Soils - Annual
322 Wilson Highway	Project Number:
Millsboro, DE 19966	Reported: 01/24/2024 16:20

Analytical Results

Sample ID: AqH [12-24"] **Sample Start:** 12/29/23 11:35
Lab ID: 2312339-14
Matrix: Soil **Received:** 12/29/23 14:14
Sample Type: Composite

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
Inorganic								
P205	292	mg/kg	0.00361		[CALC]	1/18/24 12:02	1/18/24 13:40	CK
pH	6.53	SU			SM4500-H+/B	1/2/24 9:38	1/2/24 09:38	TM
Total Phosphorus as P	128	mg/kg	0.00158		SM4500-P-F	1/18/24 12:02	1/18/24 13:40	CK
Metals								
Potassium	167	mg/kg	0.196		EPA 6010	1/24/24 9:00	1/24/24 14:53	JMW

Town of Millsboro
 White Farms
 Annual
 Kenny Niblet - 302-519-8084

ENVIROCORP, INC

Chain of Custody Record



2312339

Town of Millsboro
 White Farm Soils - Annual

Collection Information		Preservation		
Lab ID #	Date	Description	No	Analysis
-01	12/28/23	White Farms - ArH 1 Comp of GPS WF 098-WF 108 (0-12") (11 Plugs) ✓	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-02	11/40 - 12/20	White Farms - ArH 1 Comp of GPS WF 098-WF 108 (12-24") (11 Plugs) ✓	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-03	12/29/23	White Farms - ArH 2 Comp of GPS WF 130-WF 143 (0-12") (14 Plugs) ✓	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-04	10/22 - 1/00	White Farms - ArH 2 Comp of GPS WF 130-WF 143 (12-24") (14 Plugs) ✓	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-05	12-28/23	White Farms - ArH 3 Comp of GPS WF 144-WF 156 (0-12") (13 Plugs) ✓	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-06	14/00 - 15/00	White Farms - ArH 3 Comp of GPS WF 144-WF 156 (12-24") (13 Plugs) ✓	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-07	12/28/23	White Farms - TyH 1 Comp of GPS WF 157-WF 169 (0-12") (13 Plugs) ✓	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-08	13/00 - 14/00	White Farms - TyH 1 Comp of GPS WF 157-WF 169 (12-24") (13 Plugs) ✓	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-09	12/29/23	White Farms - TyH 2 Comp of GPS WF 782-WF 795 (0-12") (14 Plugs)	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-10	11/29 - 12/15	White Farms - TyH 2 Comp of GPS WF 782-WF 795 (12-24") (14 Plugs)	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-11	12/28/23	White Farms - AqArH Comp of GPS WF 109-WF 119 (0-12") (11 Plugs) ✓	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-12	12/35 - 12/57	White Farms - AqArH Comp of GPS WF 109-WF 119 (12-24") (11 Plugs) ✓	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-13	12/29/23	White Farms - AqH Comp of GPS WF 120-WF 129 (0-12") (10 Plugs)	X	pH, OM, TP, P205, K, Na Adsorption Ratio
-14	11/05 - 11/35	White Farms - AqH Comp of GPS WF 120-WF 129 (12-24") (10 Plugs)	X	pH, OM, TP, P205, K, Na Adsorption Ratio

Relinquished By	Date	Time	Received By	Time	Comments
<i>[Signature]</i>	12/29/23	12:25	<i>[Signature]</i>	12/29/23	14/4

Report Number: 24-011-0967
 Account Number: 15145



Send To: Envirocorp Inc
 51 Clark Street
 Harrington DE 19952

7621 Whitepine Road, Richmond, VA 23237
 Main 804-743-9401 • Fax 804-271-6446
 www.waypointanalytical.com

Grower: 2312339

"Every acre...Every year."™

Analytical Method(s): Mehlich 3 SMP Buffer pH Loss On Ignition Water pH

SOIL ANALYSIS REPORT

DE = Delaware Fertility Index Value

Date Received: 01/11/2024

Date of Analysis: 01/12/2024

Date Of Report: 01/15/2024

Sample ID Field ID	Lab Number	OM % Rate	W/V Soil Class	ENR lbs/A	Phosphorus			Potassium K ppm Rate	Magnesium Mg ppm Rate	Calcium Ca ppm Rate	Sodium		pH	Acidity H meq/100g	C.E.C meq/100g
					M3 ppm Rate	ppm Rate	Rate				Na ppm Rate	Soil pH			
2312339-01	20505	1.1 L		68	232 VH DE = 232		70 M DE = 39	54 M DE = 41	383 M DE = 38	28 M	6.3	0.3	3.0		
2312339-02	20506	0.9 VL		64	175 VH DE = 175		70 M DE = 39	55 H DE = 42	275 M DE = 28	36 M	6.3	0.3	2.5		
2312339-03	20507	1.1 L		69	143 VH DE = 143		69 M DE = 38	37 M DE = 28	257 M DE = 26	26 M	6.0	6.90	2.2		
2312339-04	20508	2.2 L		91	70 H DE = 70		59 L DE = 32	39 H DE = 30	193 M DE = 19	28 M	6.2	0.2	1.8		
2312339-05	20510	1.2 L		71	126 VH DE = 126		63 L DE = 35	46 H DE = 35	297 M DE = 30	23 M	6.2	0.3	2.4		

Sample ID Field ID	Percent Base Saturation				Nitrate NO ₃ -N ppm Rate	Sulfur S ppm Rate	Zinc Zn ppm Rate	Manganese Mn ppm Rate	Iron Fe ppm Rate	Copper Cu ppm Rate	Boron B ppm Rate	Soluble Salts		Sodium Absorption Ratio ppm
	K %	Mg %	Ca %	Na %								SS ms/cm Rate	SS ms/cm Rate	
2312339-01	6.0	15.0	63.8	4.1		10 L	11.9 VH DE = 23.8	15 M DE = 30	222 VH	5.0 VH	0.3 VL			0.35
2312339-02	7.2	18.3	55.0	6.3		9 VL	3.9 H DE = 7.8	12 M DE = 24	162 VH	3.8 VH	0.2 VL			0.52
2312339-03	8.0	14.0	58.4	5.1		10 L	7.8 H DE = 15.6	13 M DE = 26	141 VH	4.1 VH	0.2 VL			0.40
2312339-04	8.4	18.1	53.6	6.8		7 VL	3.3 M DE = 6.6	10 M DE = 20	101 VH	2.0 H	0.1 VL			0.48
2312339-05	6.7	16.0	61.9	4.2		9 VL	7.6 H DE = 15.2	14 M DE = 28	136 VH	3.7 VH	0.3 VL			0.33

Uses on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Brandi Watson*
 Brandi Watson

Report Number: 24-011-0967
 Account Number: 15145



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 51 Clark Street
 Harrington DE 19952

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 Main 804-743-9401 • Fax 804-271-6446
 www.waypointanalytical.com

Grower: 2312339

"Every acre...Every year."™

Analytical Method(s): Mehlich 3 SMP Buffer pH Loss On Ignition Water pH

SOIL ANALYSIS REPORT

DE = Delaware Fertility Index Value

Date Received: 01/11/2024

Date of Analysis: 01/12/2024

Date Of Report: 01/15/2024

Sample ID Field ID	Lab Number	OM % Rate	W/V Soil Class	ENR lbs/A	Phosphorus			Potassium			Magnesium		Calcium		Sodium		pH		Acidity H meq/100g	C.E.C meq/100g
					M3 ppm	Rate ppm	Rate	K ppm	Rate ppm	Mg ppm	Rate ppm	Ca ppm	Rate ppm	Na ppm	Rate ppm	Soil pH	Buffer Index			
2312339-06	20511	0.6 VL	MIN	59	36 M	DE = 36	71 M	DE = 39	61 H	DE = 46	241 M	DE = 24	33 M	6.4	0.2	2.2				
2312339-07	20512	1.2 L	MIN	70	154 VH	DE = 154	72 M	DE = 40	53 H	DE = 40	338 M	DE = 34	20 L	6.2	0.3	2.7				
2312339-08	20513	0.6 VL	MIN	59	54 H	DE = 54	60 L	DE = 33	43 H	DE = 33	196 M	DE = 20	20 M	6.3	0.2	1.8				
2312339-09	20514	1.2 L	MIN	70	143 VH	DE = 143	83 M	DE = 46	57 H	DE = 43	381 M	DE = 38	31 M	6.4	0.3	3.0				
2312339-10	20515	0.6 VL	MIN	59	37 M	DE = 37	86 M	DE = 47	58 H	DE = 44	239 M	DE = 24	38 H	6.7	0.1	2.2				

Sample ID Field ID	Percent Base Saturation				Nitrate NO ₃ N ppm	Sulfur S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts		Sodium Absorption Ratio ppm
	K %	Mg %	Ca %	Na %								SS ms/cm	Rate	
2312339-06	8.3	23.1	54.8	6.5	9.1	9 VL	1.7 L	7 L	73 VH	1.3 M	0.2 VL	0.2 VL		0.49
2312339-07	6.8	16.4	62.6	3.2	11.1	8 VL	7.8 H	13 M	138 VH	3.6 VH	0.3 VL	0.3 VL		0.27
2312339-08	8.5	19.9	54.4	4.8	11.1	6 VL	2.3 M	9 L	84 VH	1.9 H	0.2 VL	0.2 VL		0.34
2312339-09	7.1	15.8	63.5	4.5	10.0	10 L	7.9 H	20 M	162 VH	4.2 VH	0.3 VL	0.3 VL		0.39
2339-10	10.0	22.0	54.3	7.5	4.5	8 VL	1.9 L	11 M	80 VH	1.4 M	0.2 VL	0.2 VL		0.57

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppt.

On this report represent the plant available nutrients in the (Rating after each value: VL (Very Low), L (Low), M (Medium), High), VH (Very High), ENR - Estimated Nitrogen Release, i.c. - Cation Exchange Capacity.

by: *Brandi Watson*

Brandi Watson

Report Number: 24-011-0967
 Account Number: 15145



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 Harrington DE 19952

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"Every acre...Every year."TM
 Grower: 2312339

Analytical Method(s): Mehlich 3 SMP Buffer pH Loss On Ignition Water pH

SOIL ANALYSIS REPORT

DE = Delaware Fertility Index Value

Date Received: 01/11/2024

Date Of Report: 01/15/2024

Sample ID Field ID	Lab Number	OM % Rate	W/V Soil Class	ENR lbs/A	Phosphorus			Potassium K ppm Rate	Magnesium Mg ppm Rate	Calcium Ca ppm Rate	Sodium Na ppm Rate	pH Soil pH	Buffer Index	Acidity H meq/100g	C.E.C meq/100g
					M3 ppm Rate	ppm Rate	ppm Rate								
2312339-11	20516	1.3 L		73	108 VH DE = 108		70 M DE = 39	38 M DE = 29	260 M DE = 26	25 M	6.0	6.90	0.3	2.2	
2312339-12	20517	0.7 VL	MIN	61	34 M DE = 34		68 M DE = 37	46 H DE = 35	215 M DE = 22	33 H	6.4		0.2	2.0	
2312339-13	20518	1.7 L	MIN	80	169 VH DE = 169		74 M DE = 41	40 M DE = 30	281 M DE = 28	25 M	5.7	6.88	0.5	2.5	
2312339-14	20519	0.7 VL	MIN	62	66 H DE = 66		60 L DE = 33	37 H DE = 28	192 M DE = 19	26 M	6.2		0.2	1.7	

Sample ID Field ID	Percent Base Saturation				Nitrate NO ₃ N ppm Rate	Sulfur S ppm Rate	Zinc Zn ppm Rate	Manganese Mn ppm Rate	Iron Fe ppm Rate	Copper Cu ppm Rate	Boron B ppm Rate	Soluble Salts		Sodium Absorption Ratio ppm
	K %	Mg %	Ca %	Na %								SS ms/cm Rate	SS ms/cm Rate	
2312339-11	8.2	14.4	59.1	4.9	13.6	10 L	6.9 H DE = 13.8	13 M DE = 26	140 VH	3.8 VH	0.3 VL			0.38
2312339-12	8.7	19.2	53.8	7.2	10.0	9 VL	1.9 L DE = 3.8	9 L DE = 18	85 VH	2.4 H	0.2 VL			0.53
2312339-13	7.6	13.3	56.2	4.3	20.0	12 L	9.2 VH DE = 18.4	14 M DE = 28	158 VH	4.9 VH	0.3 VL			0.37
2312339-14	9.0	18.1	56.5	6.6	11.8	8 VL	3.0 M DE = 6.0	9 L DE = 18	111 VH	1.8 H	0.2 VL			0.45

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

by: *Brandi Watt*
 Brandi Watson

Analysis prepared by: Waypoint Analytical Virginia, Inc.



HORNEY INDUSTRIAL ELECTRONICS

Process Control Technology

RECEIVED

JAN 19 2023

MILLSBORO TOWN HALL

CERTIFICATE OF CALIBRATION

DATE: January 12, 2023

Millsboro WWTP
361 E. State Street
Millsboro, DE 19966

P.O. #

Job #: 614205

UUT

Serial Number

Range

Departure

Siemens Mag 5000
Siemens Mag 5100W 8"

N1K2210083
PBD/KO024807

0-1761.1 GPM

0

**Equipment Used For Calibration Is Traceable To N.I.S.T.
Calibration Standard Information Is Available Upon Request**

Annual Quality Assurance Summary
 January 1, 2023 - December 31, 2023

Town of Millsboro
 322 Wilson Highway
 Millsboro, DE 19966
 Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Duplicate
Alkalinity as CaCO₃
SM2320-B

Date	Sample Number	Analyst	Analysis (ppm)	Dup Analysis (ppm)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
5/17/2023	2304679-01/02	JB	171	166	-5.0000	25.0000	N/A	N/A	N/A	N/A	N/A
6/7/2023	2305351-01/02	ML	61.3	64.0	2.7000	7.2900	N/A	N/A	N/A	N/A	N/A
8/2/2023	2307240-01/02	JB	207	203	-4.0000	16.0000	N/A	N/A	N/A	N/A	N/A
12/6/2023	2311536-01/02	ML	158	160	2.0000	4.0000	N/A	N/A	N/A	N/A	N/A

STANDARD DEVIATION DATA

TOTAL of d2 52.2900
 Number of Duplicates 4
Standard Deviation +/- 4.17

Annual Quality Assurance Summary
January 1, 2023 - December 31, 2023

Town of Millsboro
322 Wilson Highway
Millsboro, DE 19966
Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Duplicate
BOD5
SM5210-B

Date	Sample Number	Analyst	Analysis (ppm)	Dup Analysis (ppm)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-01/02	MEM	4.0	4.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
2/8/2023	2301252-01/02	TM	4.0	4.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
3/8/2023	2302273-01/02	TM	4.0	4.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
5/2/2023	2304057-01/02	MJM	31.1	33.6	2.5000	6.2500	N/A	N/A	N/A	N/A	N/A
5/17/2023	2304679-01/02	TM	4.0	4.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
6/7/2023	2305351-01/02	MEM	6.4	6.6	0.2000	0.0400	N/A	N/A	N/A	N/A	N/A
8/2/2023	2307240-01/02	MEM	4.0	4.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
9/14/2023	2308793-01/02	TM	4.0	4.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
11/8/2023	2310692-01/02	TM	4.0	4.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
12/6/2023	2311536-01/02	MEM	4.0	4.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A

STANDARD DEVIATION DATA

TOTAL of d2 6.2900
Number of Duplicates 10
Standard Deviation +/- 0.84

Annual Quality Assurance Summary
 January 1, 2023 - December 31, 2023

Town of Millsboro
 322 Wilson Highway
 Millsboro, DE 19966
 Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Duplicate
Chloride
EPA 300.0 or SM4500-CL-C

Date	Sample Number	Analyst	Analysis (ppm)	Dup Analysis (ppm)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-01/02	MEM	94.1	94.0	-0.1000	0.0100	40.0	137.200	108.00%	0.000	0.0000

STANDARD DEVIATION DATA

TOTAL of d2 0.0100
 Number of Duplicates 1
Standard Deviation +/- #DIV/0!

SPIKE RECOVERY DATA

Mean % Recovery (X) 1.08
 Mean Converted 108.0000
 # of Data Points 1
 SUM of Diff² = **0.00**
Standard Deviation +/- #DIV/0!

Annual Quality Assurance Summary
January 1, 2023 - December 31, 2023

Town of Millsboro
322 Wilson Highway
Millsboro, DE 19966
Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Grab - Duplicate
Fecal Coliform
SM9222-D

Date	Sample Number	Analyst	Analysis (#/100 mls)	Dup Analysis (#/100 mls)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-03/04	HJG3	10	10	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
2/8/2023	2301252-03/04	RD	10	10	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
3/8/2023	2302273-03/04	RD	10	10	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
5/2/2023	2304057-03/04	RD	8000	8000	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
5/17/2023	2304679-03/04	RD	1	1	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
6/7/2023	2305351-03/04	HJG3	1	1	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
8/2/2023	2307240-03/04	HJG3	15	16	1.0000	1.0000	N/A	N/A	N/A	N/A	N/A
9/14/2023	2308793-03/04	HM	1	1	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
11/8/2023	2310692-03/04	RD	1	7	6.0000	36.0000	N/A	N/A	N/A	N/A	N/A
12/6/2023	2311536-03/04	RD	1	1	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A

STANDARD DEVIATION DATA

TOTAL of d2 37.0000
Number of Duplicates 10
Standard Deviation +/- 2.03

Annual Quality Assurance Summary
January 1, 2023 - December 31, 2023

Town of Millsboro
322 Wilson Highway
Millsboro, DE 19966
Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Grab - Duplicate
Fecal Enterococcus
Enterolert

Date	Sample Number	Analyst	Analysis (#/100 mls)	Dup Analysis (#/100 mls)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-03/04	HJG3	1	1	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
2/8/2023	2301252-03/04	RD	1	1	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
3/8/2023	2302273-03/04	RD	1	1	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
5/2/2023	2304057-03/04	RD	2419.6	2419.6	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
5/17/2023	2304679-03/04	RD	1	1	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
6/7/2023	2305351-03/04	HJG3	1	1	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
8/2/2023	2307240-03/04	HJG3	1	2	1.0000	1.0000	N/A	N/A	N/A	N/A	N/A
9/14/2023	2308793-03/04	HM	1	1	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
11/8/2023	2310692-03/04	RD	5.2	5.2	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
12/6/2023	2311536-03/04	RD	1	1	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A

STANDARD DEVIATION DATA

TOTAL of d2 1.0000
Number of Duplicates 10
Standard Deviation +/- 0.33

Annual Quality Assurance Summary
January 1, 2023 - December 31, 2023

Town of Millsboro
322 Wilson Highway
Millsboro, DE 19966
Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Duplicate
Ammonia as N
SM4500-NH3-G

Date	Sample Number	Analyst	Analysis (ppm)	Dup Analysis (ppm)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-01/02	CK	0.08	0.07	-0.0100	0.0001	1.00	1.064	99.40%	-0.002	0.0000
2/8/2023	2301252-01/02	CK	0.12	0.14	0.0200	0.0004	1.00	1.122	98.20%	-0.014	0.0002
3/8/2023	2302273-01/02	CK	0.08	0.09	0.0100	0.0001	1.00	1.026	93.60%	-0.060	0.0036
5/2/2023	2304057-01/02	CK	5.65	5.69	0.0400	0.0016	10.0	16.690	110.00%	0.104	0.0109
5/17/2023	2304679-01/02	JMW	0.32	0.28	-0.0400	0.0016	1.00	1.253	97.30%	-0.023	0.0005
6/7/2023	2305351-01/02	CK	0.05	0.05	0.0000	0.0000	1.00	1.060	101.00%	0.014	0.0002
8/2/2023	2307240-01/02	CK	0.05	0.05	0.0000	0.0000	1.00	1.110	106.00%	0.064	0.0041
9/14/2023	2308793-01/02	CK	0.05	0.05	0.0000	0.0000	1.00	1.044	99.40%	-0.002	0.0000
11/8/2023	2310692-01/02	CK	0.06	0.06	0.0000	0.0000	1.00	0.969	90.90%	-0.087	0.0075
12/6/2023	2311536-01/02	CK	0.05	0.05	0.0000	0.0000	1.00	1.050	100.00%	0.004	0.0000

STANDARD DEVIATION DATA

TOTAL of d2 0.0038
Number of Duplicates 10
Standard Deviation +/- 0.0205

SPIKE RECOVERY DATA

Mean % Recovery (X) 1.00
Mean Converted 99.5800
of Data Points 10
SUM of Diff² = **0.03**
Standard Deviation +/- 5.48

Annual Quality Assurance Summary
January 1, 2023 - December 31, 2023

Town of Millsboro
322 Wilson Highway
Millsboro, DE 19966
Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Duplicate
Nitrate + Nitrite
EPA 300.0 or SM4500-NO3-H

Date	Sample Number	Analyst	Analysis (ppm)	Dup Analysis (ppm)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-01/02	CK	26.0	25.6	-0.4000	0.1600	10.0	35.220	96.20%	-0.054	0.0029
2/8/2023	2301252-01/02	CK	21.8	21.4	-0.4000	0.1600	10.0	30.780	93.80%	-0.078	0.0061
3/8/2023	2302273-01/02	CK	26.8	26.3	-0.5000	0.2500	10.0	35.960	96.60%	-0.050	0.0025
5/2/2023	2304057-01/02	CK	9.74	9.72	-0.0200	0.0004	10.0	20.520	108.00%	0.064	0.0041
5/17/2023	2304679-01/02	JMW	1.05	1.06	0.0100	0.0001	0.500	1.600	108.00%	0.064	0.0041
6/7/2023	2305351-01/02	CK	9.22	8.97	-0.2500	0.0625	5.00	14.020	101.00%	-0.006	0.0000
8/2/2023	2307240-01/02	CK	0.05	0.05	0.0000	0.0000	0.500	0.590	108.00%	0.064	0.0041
9/14/2023	2308793-01/02	CK	7.10	7.12	0.0200	0.0004	2.00	9.280	108.00%	0.064	0.0041
11/8/2023	2310692-01/02	CK	19.1	18.9	-0.2000	0.0400	5.00	23.790	97.80%	-0.038	0.0015
12/6/2023	2311536-01/02	CK	14.7	14.8	0.1000	0.0100	5.00	19.740	98.80%	-0.028	0.0008

STANDARD DEVIATION DATA

TOTAL of d2 0.6834
Number of Duplicates 10
Standard Deviation +/- 0.2756

SPIKE RECOVERY DATA

Mean % Recovery (X) 1.02
Mean Converted 101.6200
of Data Points 10
SUM of Diff² = **0.03**
Standard Deviation +/- 5.79

Annual Quality Assurance Summary
January 1, 2023 - December 31, 2023

Town of Millsboro
322 Wilson Highway
Millsboro, DE 19966
Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Duplicate
Organic Nitrogen as N
CALC

Date	Sample Number	Analyst	Analysis (ppm)	Dup Analysis (ppm)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-01/02	JMW	0.854	0.833	-0.0210	0.0004	N/A	N/A	N/A	N/A	N/A
2/8/2023	2301252-01/02	CK	1.12	1.08	-0.0400	0.0016	N/A	N/A	N/A	N/A	N/A
3/8/2023	2302273-01/02	CK	0.828	0.831	0.0030	0.0000	N/A	N/A	N/A	N/A	N/A
5/2/2023	2304057-01/02	CK	5.55	5.21	-0.3400	0.1156	N/A	N/A	N/A	N/A	N/A
5/17/2023	2304679-01/02	CK	0.998	1.01	0.0120	0.0001	N/A	N/A	N/A	N/A	N/A
6/7/2023	2305351-01/02	CK	1.14	1.16	0.0200	0.0004	N/A	N/A	N/A	N/A	N/A
8/2/2023	2307240-01/02	JMW	0.854	0.837	-0.0170	0.0003	N/A	N/A	N/A	N/A	N/A
9/14/2023	2308793-01/02	JMW	1.11	1.08	-0.0300	0.0009	N/A	N/A	N/A	N/A	N/A
11/8/2023	2310692-01/02	CK	1.08	1.10	0.0200	0.0004	N/A	N/A	N/A	N/A	N/A
12/6/2023	2311536-01/02	CK	0.994	0.982	-0.0120	0.0001	N/A	N/A	N/A	N/A	N/A

STANDARD DEVIATION DATA

TOTAL of d2 0.1199
Number of Duplicates 10
Standard Deviation +/- 0.12

Annual Quality Assurance Summary
 January 1, 2023 - December 31, 2023

Town of Millsboro
 322 Wilson Highway
 Millsboro, DE 19966
 Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Duplicate
Total Dissolved Solids
SM2540-C

Date	Sample Number	Analyst	Analysis (ppm)	Dup Analysis (ppm)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-01/02	TAS	480	482	2.0000	4.0000	N/A	N/A	N/A	N/A	N/A

STANDARD DEVIATION DATA

TOTAL of d2 4.0000
 Number of Duplicates 1
Standard Deviation +/- #DIV/0!

Annual Quality Assurance Summary
January 1, 2023 - December 31, 2023

Town of Millsboro
322 Wilson Highway
Millsboro, DE 19966
Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Duplicate
TKN
SM4500-Norg-C

Date	Sample Number	Analyst	Analysis (ppm)	Dup Analysis (ppm)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-01/02	JMW	0.939	0.904	-0.0350	0.0012	0.500	1.464	112.00%	0.048	0.0023
2/8/2023	2301252-01/02	CK	1.23	1.22	-0.0100	0.0001	0.500	1.735	103.00%	-0.042	0.0018
3/8/2023	2302273-01/02	CK	0.912	0.921	0.0090	0.0001	0.500	1.392	94.20%	-0.130	0.0170
5/2/2023	2304057-01/02	CK	11.2	10.9	-0.3000	0.0900	5.00	16.200	106.00%	-0.012	0.0001
5/17/2023	2304679-01/02	CK	1.32	1.29	-0.0300	0.0009	0.500	1.805	103.00%	-0.042	0.0018
6/7/2023	2305351-01/02	CK	1.14	1.16	0.0200	0.0004	0.500	1.725	113.00%	0.058	0.0033
8/2/2023	2307240-01/02	JMW	0.854	0.837	-0.0170	0.0003	0.500	1.397	112.00%	0.048	0.0023
9/14/2023	2308793-01/02	JMW	1.11	1.08	-0.0300	0.0009	1.00	2.180	110.00%	0.028	0.0008
11/8/2023	2310692-01/02	CK	1.14	1.16	0.0200	0.0004	1.00	2.190	103.00%	-0.042	0.0018
12/6/2023	2311536-01/02	CK	0.994	0.982	-0.0120	0.0001	0.500	1.562	116.00%	0.088	0.0077

STANDARD DEVIATION DATA

TOTAL of d2 0.0944
Number of Duplicates 10
Standard Deviation +/- 0.1024

SPIKE RECOVERY DATA

Mean % Recovery (X) 1.07
Mean Converted 107.2200
of Data Points 10
SUM of Diff² = **0.04**
Standard Deviation +/- 6.57

Annual Quality Assurance Summary
January 1, 2023 - December 31, 2023

Town of Millsboro
322 Wilson Highway
Millsboro, DE 19966
Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Duplicate
Total Nitrogen as N
CALC

Date	Sample Number	Analyst	Analysis (ppm)	Dup Analysis (ppm)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-01/02	JMW	26.9	26.5	-0.4000	0.1600	N/A	N/A	N/A	N/A	N/A
2/8/2023	2301252-01/02	CK	23.1	22.6	-0.5000	0.2500	N/A	N/A	N/A	N/A	N/A
3/8/2023	2302273-01/02	CK	27.7	27.2	-0.5000	0.2500	N/A	N/A	N/A	N/A	N/A
5/2/2023	2304057-01/02	CK	20.9	20.6	-0.3000	0.0900	N/A	N/A	N/A	N/A	N/A
5/17/2023	2304679-01/02	CK	2.37	2.36	-0.0100	0.0001	N/A	N/A	N/A	N/A	N/A
6/7/2023	2305351-01/02	CK	10.4	10.1	-0.3000	0.0900	N/A	N/A	N/A	N/A	N/A
8/2/2023	2307240-01/02	JMW	0.854	0.837	-0.0170	0.0003	N/A	N/A	N/A	N/A	N/A
9/14/2023	2308793-01/02	JMW	8.20	8.20	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
11/8/2023	2310692-01/02	CK	20.3	20.1	-0.2000	0.0400	N/A	N/A	N/A	N/A	N/A
12/6/2023	2311536-01/02	CK	15.7	15.8	0.1000	0.0100	N/A	N/A	N/A	N/A	N/A

STANDARD DEVIATION DATA

TOTAL of d2 0.8904
Number of Duplicates 10
Standard Deviation +/- 0.31

Annual Quality Assurance Summary
January 1, 2023 - December 31, 2023

Town of Millsboro
322 Wilson Highway
Millsboro, DE 19966
Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Duplicate
Total Phosphorus as P
SM4500-P-F (dig)

Date	Sample Number	Analyst	Analysis (ppm)	Dup Analysis (ppm)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-01/02	JMW	0.78	0.79	0.0100	0.0001	1.00	1.730	94.00%	0.010	0.0001
2/8/2023	2301252-01/02	CK	0.89	0.90	0.0100	0.0001	1.00	1.819	91.90%	-0.011	0.0001
3/8/2023	2302273-01/02	CK	2.17	2.18	0.0100	0.0001	1.00	3.101	92.10%	-0.009	0.0001
5/2/2023	2304057-01/02	CK	1.71	1.68	-0.0300	0.0009	4.00	5.476	94.90%	0.019	0.0004
5/17/2023	2304679-01/02	CK	1.49	1.49	0.0000	0.0000	1.00	2.490	100.00%	0.070	0.0049
6/7/2023	2305351-01/02	CK	1.77	1.77	0.0000	0.0000	0.500	2.242	94.40%	0.014	0.0002
8/2/2023	2307240-01/02	JMW	0.99	0.99	0.0000	0.0000	1.00	1.863	87.30%	-0.057	0.0032
9/14/2023	2308793-01/02	JMW	2.02	2.05	0.0300	0.0009	2.00	3.848	89.90%	-0.031	0.0009
11/8/2023	2310692-01/02	CK	1.61	1.61	0.0000	0.0000	2.00	3.478	93.40%	0.004	0.0000
12/6/2023	2311536-01/02	CK	1.48	1.48	0.0000	0.0000	1.00	2.398	91.80%	-0.012	0.0001

STANDARD DEVIATION DATA

TOTAL of d2 0.0021
Number of Duplicates 10
Standard Deviation +/- 0.0153

SPIKE RECOVERY DATA

Mean % Recovery (X) 0.93
Mean Converted 92.9700
of Data Points 10
SUM of Diff² = **0.01**
Standard Deviation +/- 3.35

Annual Quality Assurance Summary
January 1, 2023 - December 31, 2023

Town of Millsboro
322 Wilson Highway
Millsboro, DE 19966
Completed by: ERA

Wastewater
School Spray / White Farm RIBS - Duplicate
Total Susp. Solids
SM2540-D

Date	Sample Number	Analyst	Analysis (ppm)	Dup Analysis (ppm)	diff (d)	d ²	Spike Amount (ppm)	Spike Sample Result (ppm)	% Recovery	% Recovery Variance From Mean	Diff ²
1/4/2023	2300157-01/02	HM	2.0	2.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
2/8/2023	2301252-01/02	HM	4.8	3.2	-1.6000	2.5600	N/A	N/A	N/A	N/A	N/A
3/8/2023	2302273-01/02	HM	2.0	2.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
5/2/2023	2304057-01/02	HM	18.4	18.4	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
5/17/2023	2304679-01/02	HM	4.8	2.0	-2.8000	7.8400	N/A	N/A	N/A	N/A	N/A
6/7/2023	2305351-01/02	HM	2.0	2.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
8/2/2023	2307240-01/02	HJG3	2.0	2.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
9/14/2023	2308793-01/02	HM	2.4	2.8	0.4000	0.1600	N/A	N/A	N/A	N/A	N/A
11/8/2023	2310692-01/02	HJG3	2.0	2.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A
12/6/2023	2311536-01/02	HM	2.0	2.0	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A

STANDARD DEVIATION DATA

TOTAL of d2 10.5600
Number of Duplicates 10
Standard Deviation +/- 1.08